VICTORY TAX & COMBINED PAYROLLS BEGIN

SAT. LEAVE WILL NOT CAUSE LOSS OF OVERTIME PAY

Under the Victory Tax provisions of the Revenue Act of 1942 (Public Law 753, approved October 21, 1942), there is required to withhold from the salary of every person a tax corresponding to 5 percent of the gross base salary (plus overtime) in excess of the rate of $624 per annum. The provisions of the Act take effect on January 1, 1943.

In lieu of making exact 5% computations of the tax each pay period, the agencies are authorized to employ an approximate table based on income brackets for determining the tax. The variations between the approximate table and the exact 5% computation on the 1943 Victory tax will be adjusted between the taxpayer and the government. The tax will be withheld on a semimonthly pay periods, as follows:

If the wages are over $26 $30 $33 $36 $39 $42 $45 $48 $51 $54 $57 $60 $63 $66 $69 $72 $75 $78 $81 $84 $87 $90
But not over $20 $24 $28 $32 $36 $40 $44 $48 $52 $56 $60 $64 $68 $72 $76 $80 $84 $88 $92 $96 $100 $104 $108
The tax to be withheld shall be $0.10 $0.20 $0.29 $0.38 $0.47 $0.56 $0.65 $0.74 $0.83 $0.92 $1.01 $1.10 $1.19 $1.28 $1.37 $1.46 $1.55 $1.64 $1.73 $1.82 $1.91 $2.00 $2.09

W.O. CONGRATULATES STAFF ON WORK

The following telegram was received from the Washington Office:

WITH JUST PRAISE IN THE SUBSTANTIAL CONTRIBUTIONS TO THE WAR EFFORT OF THE ENTIRE NACA ORGANIZATION WE SEND CONGRATULATIONS TO ALL THE PERSONNEL WE ARE PROUD OF THE LOYALTY VISION AND ZEAL WITH WHICH NACA EMPLOYEES HAVE MET THE NEEDS OF THE ARMY AND NAVY FOR BETTER AIRCRAFT DURING THE PAST YEAR.

GEORGE W. LEWIS DIRECTOR OF AERONAUTICAL RESEARCH
JOHN F. VICTORY SECRETARY
EDWARD H. CHAMBERLIN ASSISTANT SECRETARY.

LEAVE EXTENDED TO 90 DAYS

By the provisions of the Act of Congress approved December 17, 1942 (Public Law 806, 77th Congress), annual leave earned at the rate of 26 days per calendar year may be accumulated at that rate up to a total of 60 days and thereafter may be accumulated at a rate not to exceed 16 days a year up to 90 days.

Beginning with the calendar year 1943, and for the duration of the emergency, the amount of annual leave which may be granted in one year is limited to 15 days of leave except that this limitation, within the discretion of the Engineer-in-Charge, may be waived in unusually meritorious cases.

The granting of annual leave is always a matter of administrative discretion. Leave not applied for will be automatically accumulated within the limits of the law and the remainder, if any, will be forfeited at the end of the calendar year. An application for leave may not be denied when to do so would cause a forfeiture.

TIMESHEETS TO BE SEMI-MONTHLY

Effective January 1, 1943 semimonthly time sheets will be issued in place of the present weekly time sheets. The procedure used in filling out the new time sheet will be the same as that employed heretofore, with the exception, that it will not be necessary to note the number of hours per week in excess of forty.

Since this new time sheet is to be the basis for the payment of the combined overtime and regular pay checks it is requested that all employees and section heads comply with the following rules:

1. All time sheets must be transmitted to the personnel office by 1:00 PM of the day following the last day of the period.

2. All annual leave must be applied for in advance in so far as practicable and the leave card forwarded to the leave clerk for entry.

3. Sick leave entries must be forwarded to the leave clerk immediately on the resumption of duties by the employee.

(Continued on page 6.)
LET'S RIDE TOGETHER

Last May, members of the staff were requested to form riding clubs in cooperation with the general war effort to save tires and also gasoline. The response was excellent and has served its purpose well. Since that time the transportation problem has changed as a result of our expansion program. Then, nearly all members of the Laboratory owned cars or had made plans to buy one. As riding arrangements with some member who had a car. Now, with the influx of new employees, the greater proportion of driving combinations are widely dispersed over the peninsula, and having to commute in public transportation as a result of the situation is unfair. A committee of employees has been appointed to take care of the situation.

The Hampton Little Theatre takes this means of announcing its NACA membership the unavoidable postponement until further notice of its forthcoming play, "Wintersett." This play was scheduled to open at Hampton High School on January 11th and was rehearsed until very recently when it was learned that the auditorium of the auditorium of the auditorium of Hampton High School was closed, and that the entire ceiling would have to be strengthened, re-lathed and re-plastered before the auditorium could again be fit for public use.

Inasmuch as "Wintersett" requires elaborate stage and lighting equipment, such as is available only in the Hampton High School stage, the Board of Directors regrettably voted to postpone the play until the auditorium could again be fit for public use.

Inasmuch as "Wintersett" requires elaborate stage and lighting equipment, such as is available only in the Hampton High School stage, the Board of Directors regrettably voted to postpone the play until the auditorium could again be fit for public use.

This is the first time the Little Theatre has ever been compelled to postpone an opening and the Board of Directors wishes the membership to take cognizance of the fact that it took an act of God to do it.

The entire staff of the Electric Generating Plant wishes Mr. Thomas A. McCoub, Superintendent of the Electric Generating Plant, the best of luck in his new position as Chief of Mechanical Operation and Maintenance with the AERL in Cleveland. Mr. McCoub has been in charge of the NACA Generating Plant since its beginning. He left for Cleveland December 26, 1942 to take up his new duties there.

The Bulletin extends its deepest sympathy to Captain and Mrs. Moon on the recent loss of their baby.

AERY'S SOLLOQUY

2-B or not 2-B that's the question.

LETTER TO THE EDITOR

It has become common practice for the drivers of the so-called "NACA Special" bus to load that bus with soldiers, soldiers' wives and civilian employees of the Army and then to refuse to take our own colored laborers on the excuse that there is no room. The truth of the situation was brought out clearly in an order (Page 31) which the driver called out "Full load" as he passed one of our ports then stopped further up the road to take on two more passengers. It was pointed out to him that the colored man was a NACA worker, the bus driver said he "didn't know." Had he asked?

The soldiers on the bus and the P.X. employees of course said nothing but it is a discouraging thing that only two of the NACA workers present should have remarked the situation at all. If we were to raise half of the operators we made when the driver takes the wrong turn, such unfairness would be temporarily checked.

An on-the-spot protest from the passengers in the bus is the simplest and most direct remedy I can suggest. The main office can also help by insisting that the special bus pick up all NACA employees, as originally intended; we have not been given the reduced rates or the non-stop service that we led to expect by the first prospectus, but we can at least demand the transportation that we were encouraged to depend on.

Doris Cohen

NACA EXCHANGE NOTES

We would like those who grise about the cafeteria to consider the following. A recent survey of one office disclosed six glasses and one fork, property of the NACA Exchange. This represents an investment of five cents, and who you eat have to pay the bill. Think of this the next time you walk out of the cafeteria with your plate.

Our delinquent list is growing. Please settle all lunch accounts in full at the end of each pay period and save us the aggravation and the unpleasant bookkeeping caused by delinquent payments. When the personnel office is questioned concerning your credit, references are made to the NACA Exchange delinquent list.

NACA Exchange Committee
MY DAZE

By K & P

We have been holding this story for weeks in the fear that it would not be believed. Having checked and rechecked several times, however, we are thoroughly convinced of its veracity, and we present it herewith with a clear conscience.

Two soldiers were recently engaged in straining a communications line across the roof of the NACA tunnel by an Edgar Rice Burroughs hero, he launched himself in a gazelle-like leap into space, alighting gracefully atop the thin corrugated asbestos sheet which forms the tank roof. Disregarding the gazelle attitude in favor of the bull mose, he proceeded to break through the roof and crash-dive to the bottom of the unknown tunnel, narrowly missing the carriage and some high-voltage wires on the way down.

Battered, sooted and dazed, young Tarzan crawled out of the tank and oozed weakly toward the office door. At this point he was halted by an alert female guard who demanded to see his badge and refused to accept what she considered a ridiculous excuse for his presence in the building. Through contradiction of the guard's assumed superior and the soldier's buddy, the big fellow was finally salvaged and toved to a warm bed.

A touching and tender scene during the past few weeks has been the sight of a slivering caravan of Full-Scale computers trudging mournfully through the snow in their daily trek to the 19-foot pressure tunnel.

Investigating the reason for the pilgrimage, MY DAZE has uncovered the dramatic tale of the FST ladies room. In keeping with the accelerated war pace, the computing staff has grown to such an extent that more than one elbow attached to a flashing powder puff has blinded the eye of an innocent bystander. As a result, the clubroom has been closed temporarily pending the construction of a new one, and the pressure tunnel has acquired a dozen odd transient inhabitants.

We understand there is an ugly rumor circulating to the effect that there will soon be a shortage of War Bonds and Stamps. Don't say we didn't warn you, now - get busy and start hoarding.

Strolling through the labyrinths which constitute the full-scale tunnel, one is apt to come upon an office off from the main group, that has the general appearance of an empty warehouse. At a corner desk, seated like a night watchman, only very much alive, is the head of the mammoth tunnel - Abe Silverstein.

Silverstein was born in Terre Haute, Indiana and obtained his engineering education in the same state at the little-known Rose Polytechnic Institute. He graduated in 1929 with a B.S. in M.E. and a Tau Beta Pi key and accepted the offer of the Civil Service Commission to work at the NACA.

As an M.E. in the PRT, Silverstein wasn't too familiar with aerodynamics but he did know his structures. Consequently, when Clint DeWitt demanded assistance in designing the full-scale tunnel, Abe was rushed into the breach. During this time, they tell us, a contractor's assistant, noticing the name Silverstein on a blueprint and mistaking it for a specification included Abe in a bill of materials. When the monumental full-scale tunnel structure was completed Abe was found securely fastened between two large condensers, and has been attached to the tunnel ever since. The electrical connection probably accounts for the unlimited energy which has made him head of the section and a Professor Aeronautical Engineer. He is an Associate Fellow of the Institute of Aeronautical Sciences and has received the further degree of Mechanical Engineer from his Alma Mater, The Army and Navy consider Abe as one of the outstanding experts on clean-up and cooling tests and his tunnel staff, which has observed his prowess with African Dominoes at parties, agrees that he's a clean-up expert at least.

At 34, Silverstein is still a bachelor, probably because he has always been too busy with other designs to form a matrimonial one. He appreciates classical music, reads fiction, and gives sedate Saturday evening musicals, sometimes referred to by unappreciative neighbors as "brawls", in his apartment in Wyoming. This apartment is probably the only one on the Peninsula that features indirect lighting and a phonograph combination that rejects records by heaving them down a runway. His tunnel knows his apartment almost as well as he does - by virtue of the many office parties thrown there and the door is always open to misunderstood P-1's.

In the clear crisp manner common to midwesterners, makes decisions quickly and forcibly and is reputed to have never lost an argument. He designs pursuit airplanes as a sideline and one of his recent jobs is undergoing tests at the NACA. It is told that his decision to have a heart-attack and drop the tunnel, from what is apparently a converted tank car, Nothing, pleases Abe so much as, after one of his evening musicals, surveying the human wreckage underneath his kitchen table - from an upright position - - propped up against the wall.

Fortified by collegiate football experience Abe is usually the only one to emerge unscathed from his section's touch-tackle games. This may be considered a tribute to his athletic prowess or perhaps an indication of the tact and judgment displayed by his junior partners.

GREEN COW COMMITTEE

At the first meeting of the new Green Cow Committee it was decided that the membership fee will be two dollars and that there will be a minimum of four dances during the season.

Only persons holding membership cards will be admitted to the dances, the first of which is tentatively scheduled to be held at the Hampton Armory on February 5.

OFFICIAL CHANGE

TELEPHONE DIRECTORY

Mr. Silverstein, Head Full-Scale Tunnel.
LANGLEY "VIEWS"

16-Foot Tunnel

One reason the NACA is and will continue to be the world's leading aeronautical research organization is its refusal to stand still—its desire to continually expand its research facilities and its aim to make each new wind tunnel better and more useful. A good example of this is the present new 16-foot wind tunnel in the west area which was completed in 1941 and which incorporates many refinements in wind tunnel equipment.

In this tunnel, airspeeds in excess of 300 miles per hour are produced by dual-rotation propellers which are driven by two 6,000-horsepower motors arranged in tandem. The tunnel is of circular cross-section throughout, having a maximum diameter of 58 feet and a test section of 16 feet—large enough to permit tests of full-scale engine and propeller installations.

The ability to test large scale setups at high air speeds gives the 16-foot tunnel a definite advantage over most other tunnels which are usually limited in regard to either size or speed.

One feature of the tunnel is its airspeed control, a recent development by General Electric which permits high airspeeds to be adjusted over the entire range and holds the speed constant at any desired value. The tunnel's six-component balance is of the rigid type and, unlike most other balance installations at the Laboratory, is of the beam type. The tunnel has elaborate propeller testing equipment (over $200,000 worth) with which 10-foot diameter propellers, either single or dual rotation, can be tested at powers up to 6,000 horsepower.

Because of its large test section, high test speeds, and special equipment, the 16-foot tunnel is suited for a wide variety of research work. Engine cooling research and propeller testing at high forward speeds are now its two major types of work. In addition, the tunnel will later be used to test complete scale models in order to determine compressibility effects, drag, and stability characteristics at high speeds.

Although the tunnel has been in operation only a year, valuable engine cooling investigations have already been completed for both the Army and the Navy. For the Army, tests were run on a full-scale engine installation of the Douglas YA-16 new bomber in which is now going into mass production. For the Navy, engine cooling tests were run on one of the new dive-bombers, the XSB2O-1. These tests have helped the manufacturers iron out cooling difficulties quickly and have thereby eliminated many long delays in the flight tests of the first test flight of the airplane and the start of mass production.

Off to a good start in its first year, the 16-foot tunnel shows promise of rapidly becoming one of the most valuable pieces of equipment here at LMAL.

WAR TRAINING COURSES

SECOND SEMESTER

The war training courses now in progress, with the exception of Simple Aerodynamics and Physics, will end the fourth week in January. The second semester will be started approximately the first week in February with the new policy being inaugurated regarding prerequisites for courses taken.

Up to the present time, qualifications for these courses have been rather general and consequently many people find themselves in classes for which they are totally unprepared. As a result of this, the enrollment in some classes shows an appreciable decrease after a short time. Perhaps people overestimate their background or underestimate the scope of the course for which they have enrolled. It might also be pointed out that progress in these courses becomes geared to the least qualified, which means repetition for those who have been able to keep up with the instructor.

The new policy to be inaugurated with the second semester will consist primarily in a better checking of qualifications. All persons entering a course will have to meet certain minimum requirements regarding previous training. Requirements will vary with each course.

In order to permit checks to be made, all registrations will be made in advance of the regular sessions, through channels to be worked out later, and admitted to lectures by those who have not registered before the first class meeting.

For the benefit of those not qualified by previous education for the more advanced aerodynamic courses, two preparatory courses, in addition to Simple Aerodynamics and Physics, are offered. Simple Aerodynamics and Physics will also be started anew. New courses to be added are Mathematical Analysis and Physics.

The technical courses will be arranged in three groups, to be taken in order.

(a) Mathematical analysis
(b) Thermodynamics as Applied to Engineering Fundamentals
(c) Aerodynamics

5. Flight Test Techniques

All the above-mentioned courses and Report Writing are to be offered in both semesters. Only those courses having 15 or more registrants will be given. With the exception of Physics and Aeronautical Engineering Fundamentals, which will be for two semesters, the courses will last one semester.

(continued next column)

"AERO. THEORY" MAY BE REDUCED TO $30

The Durand Reprinting Company has announced the possibility of supplying subscribers with a set of Durand's Aerodynamic Theory for $30 instead of the initial price of $50.

This possibility can be realized upon reaching a goal of 200 subscriptions. To date, seventy-five subscriptions have been attained and the printer has already started work.

A $10 deposit is required upon application. If you agree to purchase the books only if the price is reduced to $30, your $10 deposit will be returned promptly if the goal of 200 subscribers has not been reached.

The Institute of the Aeronautical Sciences has just contacted the Durand Reprinting Committee relative to the possibility of reproducing "Aerodynamic Theory" in the Journal. This would be done by photographically reducing the page size so that the pages will be of the same size as the Journal in each month a sufficient number of pages would be included so that in 1 year's time all six volumes would have been reprinted. It is felt by the Durand Reprinting Committee, in all fairness to the present subscribers, that they should be informed of this possibility so that those who may wish to wait and take advantage of the saving brought about by the Institute's plan may cancel their subscription. The $10 deposit which has been paid by those subscribers not wishing to continue will be promptly refunded.

IMPORTANT NOTICE

DRAFT STATUS CARDS

It is very important that each man carry UPON HIS PERSON at all times his Selective Service Classification card. Men who fail to fulfill this requirement of law may find themselves in very embarrassing positions, if someone in authority asks to see it. You may have to spend a night in jail sometime if you fail to observe this law.
**SOCIAL**

By G & G

Congratulations and best wishes to the following newwyeds:

Ruby Coburn 16th tunnel, to Harry Williams, Atlanta, Georgia, December 25, 1942.

Edith Duff, Dynamic Model Shop, to Howard Ferrall, Apprentice Administration, December 25, 1942.

Peter Korycinski, 16th tunnel to Jane Mazur, New York, November 28, 1942.

Russell Robinson of the Washington office of LMAL, whose engagement to Helen Lucius was announced in a previous issue of the Bulletin was married December 11. The couple flew to Palo Alto, California, and the ceremony was performed in the chapel of Stanford University, where Mr. Robinson attended school.

The laboratory and especially the boys in the photo lab wish to congratulate "Pop" Payne who committed matrimony in Greensboro, N.C. on December 24. Best wishes are extended to "Pop" and Mrs. Payne.

We're glad to see LaVerne Priddy, A.W.T., has recuperated from an appendectomy and is back again on the job.

More things than stars seem to have sparkled during Christmas. Ask Kitty Puckett in the Hangar and Temple Brandau, Flight Research Maneuvers, for details. Another brand new diamond sparkles on the hand of Miss Berry "Faye" of the Steno Section. We have heard rumors of other diamonds but have not seen them yet.

**SECTION PARTIES**

Christmas seems to have been a gay time for everyone. Many parties were given by the various sections and clubs of the Laboratory.

The Airflow Research Section gave a dinner dance on Christmas Eve at the Hi-Hat.

Mr. G.J. Wenzinger of the 19th PT was host at a buffet supper for all the personnel of that section on Sunday December 27.

The full-scale tunnel had a party on December 18 in the Keccoughtan Court Apartments. (See Spotlight.)

The Wreck-creation Club of the A.W.T. gave a party and dance at the American Legion Hall on Tuesday night.

(continued next column)

**MODEL DOPE**

by Dick Everett

Time for the first indoor contests of the season is rapidly drawing to a close. It has already been decided that this contest will be for Class A R.O.G. only. These ships must develop a wing spread of 16" and have less than 30 sq. inches of wing area. The wheels must be at least 1/2" diameter and turn freely. The ships must rise off the ground under their own power.

The world's record for this type of ship is slightly over 15 minutes, but time in this contest will be approximately 6 minutes.

The Martens contest will again be postponed because most of the fellows will be on vacations. So-o the contest will be had January 10th, weather permitting.

**SKYWAYS UP AND DOWN**

Some fellows just love to say they fly models only for the sport and don't like just climbing ships. Bill Keny really knows what he is doing putting a Brown in a Dodger. The most sport will probably be digging the motors out of the ground after the first flight.

Sal Tobi has finally built a high wing no cross section job. Reports say it really flies. Bob Cole has a really sweet Tiger Shark with a Super Cyke up front. Nc real speed as yet but look out when he gets the bugs out.

Ave. field. Could it be that Tom Bulcher of "Spiral Groove" fame hasn't gotten the field in shape yet?

**D'J' EVER**

Notice the number of motors that are for sale around holidays? Always a motor not broken in yet or a super running motor. Just wait until time to pay income tax.

Know Tom Bulcher won the State Indoor meet in 40 with a Baby R.O.G. flying a tissue covered ship against all the "mike" jobs?

Know C. C. Johnson Jr. has won 2nd place in every major contest held in this area this year?

Know Curt Martens is the most consistent placer in all the meets?

Know your correspondent and C. N. Purdy are now teaching model building for the younger set? Pity the poor young boys.

Know there aren't ten all around model builders on the field? (Model builders who build and fly all types)?

Know Hewitt Phillips has a variable diameter impeller prop that works automatically in flight?

Know several of the model builders are vacationing in Florida? Oh for the life of a model builder!
TIME SHEETS
(continued from page 1)

4. If an employee is on sick leave on the day that the time sheets are to be sent to the personnel office the section head or person duly authorized by him shall verify the time sheet and send it through.

5. If an employee will be on annual leave the day the time sheets are to be sent to the personnel office he shall fill it out, sign it and leave it with his section head for verification.

6. All section heads or the persons duly authorized by them shall certify leave entries and job orders to which the employee's time is charged.

If these rules are followed to the letter the employees will be doing their share in expediting the handling of the payroll and the subsequent issuance of paycheck.

Payers of the Victory tax get a postwar credit for part of the tax and a postwar credit is in the case of a single person, 40 per cent for a married man, plus 2 per cent for each dependent.

The taxpayer doesn't have to wait until the end of the war to collect the rebate. If he can prove that he bought government bonds to the amount of his postwar tax credit, or paid off old debts, or paid life insurance premiums on policies taken out previously, he can claim credit to the amount of his allowed percentage - but no more - and apply it against his 1943 income tax.

NOTICE TO SECTION HEADS
Since the INAL Bulletin replaces the previous memorandums and bulletins as regards official matters, it is required that each section maintain a complete file of the issues. In cases where this has not been done, back copies may be obtained for section files by calling the editors at 313.

INDUSTRIAL HYGIENE SURVEY
On January 5, the State Bureau of Industrial Hygiene will begin an Industrial Hygiene Survey of the Laboratory. Some of the problems to be considered are a nutritional study of the cafeteria, an analysis of the problem of working people under pressure, and a survey of the ventilating systems in the central shops and grinding rooms.

The first of these studies, that of the cafeteria, will begin on January 5, and will be conducted by Miss Irene Renz, Mrs. Sally Ann Kurka, Mr. S.W. Lang, and Mr. O. J. Sobol under the direction of Dr. J. B. Porterfield, director of the Bureau of Industrial Hygiene.

ELEC. TOOLS MUST BE INSPECTED MONTHLY

In the interest of personnel safety and the proper maintenance of the electric tools being used throughout the Laboratory, the INAL Safety Board has recommended that such tools be returned to the Full-Scale Tunnel Electrical Stock Room for periodic inspection. Portable electric tools subject to inspection will include hand drills, grinders, routers, Sanders, erasing machines, etc. Therefore that all such tools in use by the east and west area shops and the model shops be submitted for inspection every thirty days. Similar tools used in other activities shall be inspected every ninety days. Regular maintenance, thus providing full and proper use of the tools, keep them operating at peak efficiency and minimize the hazard of defective equipment.

VICTORY TAX
(continued from page 1)

The act of February 10, 1942, authorizing overtime pay for field employees of the NACA and expiring June 30, 1943, has been restricted in application by the Act approved December 22, 1942, but the Executive Order of March 31, 1942 which gave it legal effect has been revoked effective December 1, 1942 by the Executive Order of December 26, 1942.

Beginning January 1, the regular and overtime payrolls will be combined into a single payroll rendered semi-monthly as of the 15th and last of each month. This is possible in view of the terms of the Executive Order to the effect that the overtime compensation, it being only necessary for an employee other than the one whose work and annual leave may be taken on any and all days of the week without impairing the right to overtime compensation, be given the staff.

The actual hours of work and the actual work week for the various units and shifts of the Laboratory shall be fixed from time to time by the Engineer-in-Charge, or Manager, provided that no work week may be prescribed in excess of 48 hours.

The overtime compensation for each pay period will be 1/24 the annual amount of overtime payable regardless of the number of Saturdays in a section and the thirtieth of the monthly pay as thus augmented by overtime pay on a 48 hour per week basis will be deducted for each day of absence without pay, including Sundays, occurring wholly or partially within a period of absence without pay.

A special payroll, covering overtime only, will be prepared immediately, for the month of December, in accordance with the limitations stated in the Bulletin of December 21 and with War Bond deductions at twice the normal overtime payroll amount, so far as practicable.

MISSING MANOMETER RECORDS

Manometer records, 5 x 7 negatives, which should have been sent from photo laboratory to 8-foot high-speed tunnel are missing. These records are marked "8! B.S.I." but may have been sent to another section.

It would be appreciated if any one having these records would return them to the 8-foot high speed tunnel.

NOTICE '43 CALENDARS

There are as yet no 1943 calendar pad refills available in the stockrooms. When these pads arrive from the Washington Office, notice will be given the staff.

LIBRARY

The following periodicals are now off circulation and are available in the Library:

Aeroplane, Sept. 18, 25, Oct. 9 and 30, 1942.
Engineer's Digest, Sept. 1942.
Engineering, Oct. 23, 30, Nov. 6 and 20, 1942.
Flight, Oct. 1, 1942.
Instruments, Oct. 1942.
Jr. of Applied Physics, Nov. 1942.
Jr. of Chemical Physics, Nov. 1942.
Jr. of Franklin Inst., Nov. 1942.
Jr. of Optical Soc. of America, Nov. 1942.
Philosophical Mag. & Jour. of Science, Oct. 1942.
Mathematical Reviews, Dec. 1942.

FOR SALE - $25.00 - Old model Frigidaire; 6 cubic feet; good condition. Call R.W. Noell at 251 or Hampton 6426.

WANTED TO BUY - Washing machine in good condition. Call Hampton 7814 after 5:30.

FOUND - Two men's rings in the men's wash room of the Administration Building. Owners may claim the rings by identifying them. See Mrs. Atkins in the Administrative Office.
NEW PAY RATES ESTABLISHED

In accordance with the Senate Joint Resolution approved December 27, 1942, extending until April 39, 1943, (the period for which overtime rates of compensation may be paid under the present acts), the following table of salaries together with pertinent deductions is published for the information of the laboratory staff:

**NOTES:**
* The semimonthly overtime rate is the annual overtime rate divided by 24.
** The regular semimonthly rate is based on a 360 day year, so the amount is calculated by dividing the annual rate by 360, and multiplying by 15.

### PAY RATES AND DEDUCTIONS

<table>
<thead>
<tr>
<th>DATE</th>
<th>SALARY</th>
<th>VICTORY BOND ALLOCATIONS</th>
<th>PAY</th>
<th>SEMIMONTHLY PAY</th>
</tr>
</thead>
<tbody>
<tr>
<td>720</td>
<td>156.00</td>
<td>6.50*</td>
<td>3.75</td>
<td>.40</td>
</tr>
<tr>
<td>1200</td>
<td>260.00</td>
<td>10.83</td>
<td>6.25</td>
<td>1.90</td>
</tr>
<tr>
<td>1320</td>
<td>286.00</td>
<td>11.91</td>
<td>7.50</td>
<td>1.90</td>
</tr>
<tr>
<td>1440</td>
<td>312.00</td>
<td>13.00</td>
<td>7.50</td>
<td>2.40</td>
</tr>
<tr>
<td>1500</td>
<td>325.00</td>
<td>13.54</td>
<td>9.38</td>
<td>2.40</td>
</tr>
<tr>
<td>1620</td>
<td>351.00</td>
<td>14.62</td>
<td>9.38</td>
<td>3.20</td>
</tr>
<tr>
<td>1680</td>
<td>364.00</td>
<td>15.16</td>
<td>9.38</td>
<td>3.20</td>
</tr>
<tr>
<td>1800</td>
<td>390.00</td>
<td>16.25</td>
<td>9.38</td>
<td>3.20</td>
</tr>
<tr>
<td>1860</td>
<td>403.00</td>
<td>16.79</td>
<td>10.00</td>
<td>3.20</td>
</tr>
</tbody>
</table>

**RETIREMENT DEDUCTIONS ARE TAXABLE**

According to the "Federal Register" of January 7, 1943, the amounts deducted from the pay of Civil Service employees in accordance with the Civil Service Retirement Act must be reported in gross income and no deductions can be taken on income tax returns for the amounts deducted. Inasmuch as these amounts are payments made toward the purchase of annuities provided for in the Act and are not allowable deductions for income tax purposes.

**NACA LEADS GOVT. AGENCIES IN BOND SALES**

The following letter was received from the Washington office:

The report of the Interdepartmental War Savings Bond Committee on the participation of Governmental agencies in the payroll savings plan for the month of November, 1942 shows the National Advisory Committee for Aeronautics leading all Government agencies regardless of size, in the percentage of gross pay subscribed for war bonds. With respect to percentage of employees participating, the NACA also leads all Governmental organizations having over 500 employees, with a percentage of 96.4. Three small organizations have 100%.

For your information, the leading Federal agencies with the highest percentage of gross payroll subscribed for war bonds are: (continued on page 6.)
WELCOME P-1'S

During the first eight months of 1943, 109 new engineers will join the laboratory staff. The new P-1's represent schools from Harvard to Southern California, from Georgia Tech to the University of Washington, in all 39 different colleges.

The majority of these men are aeronautical engineers; but the group includes mechanical engineers, electrical engineers, industrial engineers, civil engineers, physicists, mathematicians, and naval architects.

Already 13 of our new engineers have arrived and entered upon their duties at the laboratory.

To these and to their colleagues who will follow, the Bulletin extends a hearty welcome. We wish you the best of success and happiness in your new careers.

NOTICE - GASOLINE APPLICANTS

THE LOCAL RATION BOARDS HAVE STATED THAT THOSE EMPLOYEES OF THIS LABORATORY WHO HAVE RECEIVED DIMOUT DURING THE 1ST 6 MONTHS OF 1943 WILL BE TREATED AS "DEPENDENTS" WHEN APPLICATING FOR GASOLINE RATION BOOKS WITHOUT APPLYING THROUGH THE LMAL TRANSPORTATION COMMITTEE. THIS WILL CONTINUE THOUGH THE END OF THE YEAR.

6. Violations of any portions of the order subject the violator to a possible $5000 fine, one year's imprisonment, and immediate exclusion from the Eastern Military Zone (to same cleaner community, we trust). If the violator is an enemy alien he is subject to immediate internment and all sorts of embarrassment.

No mention is made of the use of shore parked automobile headlamps for the transmission of code messages to offshore vessels. This question is evidently left to the driver's discretion.
MY DAZE
By K. and P.

As part of a general move to improve efficiency by reducing losses due to accidents, a safety campaign has been inaugurated at the Laboratory. Signs urging employees to exercise extreme caution in their work have been mounted in all the shops on the field. So far, the results have been gratifying. As a matter of fact, the only serious accident reported since the campaign started occurred last week at the Prop Shop, where a young lady apprentice was hit on the head by one of the wooden safety signs. Maybe somebody should post safety signs urging care in mounting safety signs.

The majority of lab employees driving cars have blacked out their headlights to comply with the recent edict. The de-glowification appears to have been accomplished in many simple and ingenious ways, using everything from plain cardboard masks to fancy venetian blind affairs. The prize coup, however, was attempted by an engineer who should have known better. He spent several hours dismantling his headlight assemblies and coating the upper half of each light bulb with black paint. Shows a complete lacquer brains, one might say.

NOTE: We didn’t write the following “sirge”; blame it on the Editor!

K. and P.

Mother Adolf Hubbard, went to Europe's cupboard, to satisfy her greed; but a Russian bear, found her snooping there; and now Mother Adolf is treed.

SPOTLIGHT
BY K.-P.

Theodorsen, although a mechanical engineer and physicist by training, Theodorsen's work on flutter, vibrations and theoretical aerodynamics has been of such quality as to rank him among the top-flight aeronautical engineers in the country. A tall gaunt man, capable of extended periods of driving concentration, Theodorsen heads the Division of Physical Research at the Laboratory and is rated Chief Physicist.

Theodorsen’s earliest recollections are of the gray mists and whalebone-covered shores of Sandefjord, the fishing village in Norway where he was born. In Sandefjord, important in Norwegian economy as the home port of half the whaling fleet of that country, Theodorsen received the basic training given to all Norwegian youths and then left his birthplace to continue his education at the Technical Institute of Trondheim. There he studied mechanical engineering, and probably the ways of women as well, for his graduating yearbook shows he was possessed of a fairly lively ride as well as a degree in Mechanical Engineering (equivalent to the American degree of Master of Science).

Theo’s instinct still ran high in Norway and Theodorsen and his classmates elected to pursue their careers in foreign countries - only one man out of the graduating class of 31 remaining in Norway. Theodorsen had heard much of America from the tales told in Sandefjord by returning sailors and after spending two years as Fellow and Assistant Professor of Mechanical Engineering at Trondheim he decided to try his luck there.

The Congress of the United States at this time chose to revoke the ruling that a wife could enter the country on her husband’s passport; consequently, when the Theodorsens arrived at our shores they were forced to go back for another passport. The they didn’t mind very much - they had been married only a year and were just as content to be aboard ship as any place else - so off they went and on the third crossing they were finally admitted to the United States.

Two weeks after landing Theodorsen was teaching engineering at Johns Hopkins University. By some odd quirk of chance Mel Gough of piloting fame was a student in his first class.

Theodorsen taught at the university for five years, from 1924 to 1929. "Being possessed of more mathematical inclination than the average engineering job would permit," he took steps to obtain his Doctor’s degree in Physics during the same period. In 1929 he inadvertently disclosed to Dr. Ames, Dean of Johns Hopkins that he was thinking of doing theoretical work at the Bureau of Standards. Dr. Ames, a fast talker, convinced Theodorsen that the NACA was the place for him and to the NACA he came in 1929.

Theodorsen’s work on the Field, in addition to being top-notch has also been extremely varied. To mention only a few fields, he has done work on flutter, vibrations, instruments, turbines, propellers, cowling, cooling, tunnel wall interference, theory of thin airfoils and scores of others. His most outstanding work has been in the field of flutter, in which he is freely acknowledged to be the country’s expert and in the field of theoretical pressure distribution on airfoils, where his work supplemented the previous investigations of Joukowski and Munk.

Theodorsen's keenest outside interest at present is an educational experiment being perpetrated on Brown University, to which he acts in an advisory capacity. The purpose of the experiment is to set up at Brown a system of engineering education similar to European systems. Theodorsen believes that the American system of education has caused too great a cleavage between the mathematician and the engineer. He thinks the most efficient combination of the two can only be gained consistently under the European system of engineering education in which much more stress is placed on a sound mathematical background for engineers. He therefore watches with a delighted eye, the guinea-pig laboratory now taking shape.

Theodorsen’s staff is much amused over the fact that he has apparently never changed or cleaned his pipe in 10 years. To this outrageous charge, he points out that once each year he goes to the machine shop there takes a 1/2” drill and drills out the bowl. The Theodorsen’s have three children, the oldest of whom her father ruefully admits, finds him seriously lacking in mathematical rigorism.
LANGLEY VIEWS
By J. 2.0.

NOTE: Because of the many interests involved in the question of the equipment and work of the NACA tanks, two or more articles will be necessary to describe them. This week the equipment is described.

THE NACA TANKS

Equipment

At least two sets of tires at LML are important enough to the war effort to be replaced regardless of how serious the rubber shortage becomes. These tires are used on the two NACA tank towing carriages and constitute but one of the many novel design features which make these tanks the best seaplane model towing basins in existence.

Tank number 1, built in 1931 and enlarged in 1937, was the first tank in this country designed especially for testing models. It is 2900 feet long, over 1000 feet taller than the next longest tank in the world which incidentally is NACA tank number 2. It is so long that due to the curvature of the earth's surface, the water at the middle of the tank is about 5/8 inch higher than a straight line joining the water level at each end. The width of the tank at the surface of the water is 24 feet and the average depth of the water is 12 feet.

Eight 75-horsepower motors, which can provide 220 horsepower apiece for short periods, drive the towing carriage of tank number 1 at speeds up to 80 miles per hour, making it the world's fastest. Here again tank number 2 is the runner-up - its two motors can reach a top speed of 60 miles per hour.

Tank number 1 was the pioneer in using the rubber tires on towing carriages. Previously only carefully machined steel wheels had been used and they had proved satisfactory for the low-speed tests of ship models carried out in the early towing basins. The NACA tank, however, introduced new problems because of its great length and the high speed required of its carriage. If steel wheels had been used, careful lining of each inch of rail would have been necessary and the cost of the tank would have been increased tremendously. Moreover, finely finished steel wheels would have low adhesion on the steel rails and this would have prevented attainment of the rapid acceleration and deceleration necessary for high carriage speeds. The use of pneumatic rubber tires was the solution to the problem - they provided smooth running for the carriage in spite of the slight roughness of the rails, made it possible to accelerate and decelerate very rapidly.

(Continued next column.)

OUT OF THE DOPS CAN
By Dick Everett

Seems as though the first indoor contest will be well-attended. The only thing that is sure is that someone will have to best Phillips. It has been a long time since we saw that now famous tail-less ship last year. Records of last year will probably be beat a few contests. They are as follows:

Class B: Furseal, Dave Call, 7:37;
Class B Stick, Caldwell Johnson, 7:00;
Class C Stick, Dick Everett, 10:54;

A lot of you may wonder why there is so much about indoor ships this time. Just look at the weather and you will readily see the answer. There seems to be plenty of supplies available for all who are interested.

The Baby R.O.O. class A model will weigh approximately .030 oz. ready to fly and has 30 sq. in. of wing area. The Class B Model weighs about .035 to .043 without rubber and has 60 sq. in. The Class C is still bigger and the best of ships will weigh .054 oz. without rubber and has 150 sq. in.

All those who are interested in these, the very best and hardest to build of the model airplanes, come out to Armstrong School on Sunday January 3rd and see what these ships look like. Don't be surprised to see a framework of balsa and a prop cruising through the air for the ships have no apparent covering being covered with Microfilm, the lightest material available. Actually most of the new kits are coming through with substitute materials. Eny are composed of pine, gumwood, balsa and cardboard. Everything seems to work right all with the exception of the cardboard. The ribs are usually diecut from this material and the material is too much. And as you all probably know, once it starts to warp its usefulness is gone.

The Martens contest will be held January 10th, weather permitting.

ANNUAL MEETING NACA CREDIT UNION

The annual meeting of the NACA Laboratory Federal Credit Union will be held on January 27, 1943. The tentative plans call for dinner to be held in the NACA Cafeteria at 5:30 PM followed by a business meeting in the projection room on the second floor of the Administration Building.

A complete report on the operation of the Credit Union for the year 1942 will be presented and a declaration of dividends to the Shareholders will be recommended. There will also be an election of the officers for the year 1943.

The Officers of the Credit Union consist of seven Directors, three credit committee members and three supervisory committee members. The Directors establish the operating policies and procedures of the Credit Union, the credit committee passes upon all loan applications, and the supervisory committee acts as an auditing agency. At this annual meeting, there will be elected to office five directors, two credit committee members and three supervisory committee members.

A nominating committee consisting of Joseph W. Kutushik, E. Walter Hixon, and Robert A. Goodness will present the name of one candidate for each vacancy. Additional nominations for the various positions may be made from the floor.

Both members and nonmembers of the Credit Union are invited to attend the annual dinner and meeting. The cost of the dinner for members will be charged to the Union and the members. Nonmembers will be required to pay the full cost of the dinner which will not exceed 75 cents.

Arrangements are being made with the military authorities to permit Credit Union members to bring their wives, husbands, or friends who are not Laboratory employees, to the dinner and meeting. The names of such visitors as well as of members and nonmembers must be given to a collector of the Credit Union four or five days in advance in order that a complete list of visitors may be in the hands of the military police at the main gate before the time of the meeting.

Efforts are being made to procure interesting and educational films to be shown during the meeting.

LÜST - One copy of Milliken's Aerodynamics of the Airplane. Find another please communicate with Cal Muse, 194 Pressure Tunnel.

A son was born to Mr. and Mrs. Charles E. Bennett, Jr., November 3, 1942. Mr. Bennett is of the 5th Pressure Tunnel. The young son is Charles E. Bennett III.

Mr. and Mrs. Andrew Veryzer are the proud parents of a 7 pounds 4 ounces baby boy, Andy Jr. was born December 17.
NACA BOWLING STANDINGS

At last, it is possible to release the official standings of all but one of the bowling leagues. The results of the men's "A" League are not included below since the league with the exception of a few teams has an exceptionally high percentage of forfeit games. Write to Jack Burgess for information about the decline and fall of the "A" League.

Bowlers are reminded that the season is divided into three sections - each independent of the other two. The team winner of each league per section shall be given a prize award of $3.60. A complete prize list will be published shortly. All negligent teams are again urged to pay their entrance fees of $5.00.

**NACA DUCKPIN BOWLING LEAGUES (MEN'S LEAGUE B)**

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
<th>High Team</th>
<th>High Games</th>
<th>Number of Games</th>
<th>Number of Outs</th>
<th>Number of Bowled</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>KINGPINS*</td>
<td>608</td>
<td>1685</td>
<td>120</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>HOLY ROLLERS</td>
<td>554</td>
<td>1658</td>
<td>117</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>LUCKY LEAGUE</td>
<td>573</td>
<td>1561</td>
<td>119</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>FREE FLIGHT</td>
<td>552</td>
<td>1608</td>
<td>119</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>SPINNERS</td>
<td>554</td>
<td>1658</td>
<td>117</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>STUPORMEN</td>
<td>573</td>
<td>1561</td>
<td>119</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>STREAMLINERS</td>
<td>543</td>
<td>1569</td>
<td>75</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>STAB. TUNNEL</td>
<td>535</td>
<td>1509</td>
<td>92</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>SLOW ROLLERS</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**NACA TENPIN BOWLING LEAGUE F**

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
<th>High Team</th>
<th>High Games</th>
<th>Number of Games</th>
<th>Number of Outs</th>
<th>Number of Bowled</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>PHOTO LAB RGLES(1)</td>
<td>883</td>
<td>2400</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>I.S.C.'S</td>
<td>832</td>
<td>2321</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>B.H.S. BULLGERS</td>
<td>832</td>
<td>2321</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>AWT DRIPS</td>
<td>817</td>
<td>2326</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>STRUCK-SHURES</td>
<td>814</td>
<td>2229</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>ERG. LAB ROLLERS(2)</td>
<td>887</td>
<td>2407</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**BASKETBALL**

On the afternoons of January 5 and 7 the first workouts for the basketball teams were held. The team's coach, Frank Read, reports that the turn-outs were very promising and that practice will continue throughout this week at the Langley Field Gym from 4:30 until 6:00 o'clock.

Among those who reported last week at practice were:

Louis Fieldman 8' H.E.T.
Charles Clark 8' H.E.T.
Jack Reed 7' Flight Research
Harold Kleckner 7' Flight Research
Albert Tollefson 16' P.T.
Robert DeMoss 16' P.T.
Paul Johnson 16' P.T.

**NACA DUCKPIN BOWLING LEAGUES (MIXED LEAGUE C)**

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
<th>High Team</th>
<th>High Games</th>
<th>Number of Games</th>
<th>Number of Outs</th>
<th>Number of Bowled</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>WHIZBANGS*</td>
<td>473</td>
<td>1340</td>
<td>102</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>NAGSOUTS</td>
<td>482</td>
<td>1389</td>
<td>117</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>EXCELSESS</td>
<td>532</td>
<td>1534</td>
<td>85</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>SPIRITUS</td>
<td>495</td>
<td>1427</td>
<td>108</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>WESTERNERS</td>
<td>494</td>
<td>1460</td>
<td>94</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>AWT WOLVES</td>
<td>494</td>
<td>1365</td>
<td>92</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>SHARPSTERS</td>
<td>510</td>
<td>1438</td>
<td>113</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>BENEDICTS</td>
<td>492</td>
<td>1188</td>
<td>80</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>BIG TIMERS</td>
<td>501</td>
<td>1429</td>
<td>86</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**NACA DUCKPIN BOWLING LEAGUES (MIXED LEAGUE D)**

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
<th>High Team</th>
<th>High Games</th>
<th>Number of Games</th>
<th>Number of Outs</th>
<th>Number of Bowled</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>RGS SCRUBS*</td>
<td>472</td>
<td>1358</td>
<td>111</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>THIRLWAYS</td>
<td>493</td>
<td>1408</td>
<td>104</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>PRES. TUN. NO 1</td>
<td>508</td>
<td>1406</td>
<td>102</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>BULLDOGS</td>
<td>500</td>
<td>1405</td>
<td>102</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>PRES. TUN. NO 2</td>
<td>479</td>
<td>1391</td>
<td>85</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>TANGLEFOOT TIGERS</td>
<td>488</td>
<td>1317</td>
<td>57</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>ERS LUGS</td>
<td>492</td>
<td>1310</td>
<td>32</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>DTX. MODELSHOP</td>
<td>495</td>
<td>1324</td>
<td>36</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>HAS BEEN</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**NACA DUCKPIN BOWLING LEAGUES (MIXED LEAGUE E)**

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
<th>High Team</th>
<th>High Games</th>
<th>Number of Games</th>
<th>Number of Outs</th>
<th>Number of Bowled</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>GRS SCRUBS*</td>
<td>472</td>
<td>1358</td>
<td>111</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>THIRLWAYS</td>
<td>493</td>
<td>1408</td>
<td>104</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>PRES. TUN. NO 1</td>
<td>508</td>
<td>1406</td>
<td>102</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>BULLDOGS</td>
<td>500</td>
<td>1405</td>
<td>102</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>PRES. TUN. NO 2</td>
<td>479</td>
<td>1391</td>
<td>85</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>TANGLEFOOT TIGERS</td>
<td>488</td>
<td>1317</td>
<td>57</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>ERS LUGS</td>
<td>492</td>
<td>1310</td>
<td>32</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>DTX. MODELSHOP</td>
<td>495</td>
<td>1324</td>
<td>36</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>HAS BEEN</td>
<td></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**NACA TENPIN BOWLING LEAGUE F**

<table>
<thead>
<tr>
<th>Position</th>
<th>Name</th>
<th>High Team</th>
<th>High Games</th>
<th>Number of Games</th>
<th>Number of Outs</th>
<th>Number of Bowled</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>PHOTO LAB RGLES(1)</td>
<td>883</td>
<td>2400</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>I.S.C.'S</td>
<td>832</td>
<td>2321</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>B.H.S. BULLGERS</td>
<td>832</td>
<td>2321</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>AWT DRIPS</td>
<td>817</td>
<td>2326</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>STRUCK-SHURES</td>
<td>814</td>
<td>2229</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>ERG. LAB ROLLERS(2)</td>
<td>887</td>
<td>2407</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Winner of 1st section.**
Requests at stockrooms very below section.

Food very proud of the spirit of NACA personnel and receiving —"~-

Navy National mediation Board Organization Federal,~owe..~r'

NACA LEADS GOVERNMENT AGENCIES

Anyone knowing the location of the Governmental

MISSING PROPERTY

The two stopwatches described below have been misplaced:

(a) A.R. & J.E. Meylan
Works No. 10851
Case No. 556865
Marked "Eng. Res. Sec. 1044"

(b) A.R. & J.E. Meylan
Works No. 289999
Case No. 219006
Inventory No. 1122
Marked "Eng. Res. Sec." and maybe "1122"

Anyone knowing the location of either of these watches please notify the Engine Research Section.

NACA LEADS GOVERNMENT AGENCIES (continued from page 1.)

Organization No. of Employees Percentage
NACA 2883 11.5
National Mediation Board 27 11.4
Navy 5335 11.3
Food & Drug Administration 814 11.0
National Capitol Park & Planning Commission 19 10.9
Federal Power Commission 673 10.8

The personnel in most of the Governmental agencies just began receiving overtime compensation December 1, 1942, so a general increase is expected in the subscriptions from such agencies. I am very proud of the spirit of NACA personnel and trust that we will continue our fine record. /s./ J.F. Victory

STOCK NOTES

By Johnny Bergbom

This is the first of articles to appear in this paper devoted to keeping the Laboratory posted on materials no longer available or being delayed due to some reason beyond our control. Calendar pad refills have been received. They were held up by Washington Office until the needs of LMAU, AERL, and AAL were determined.

Gripit glue is out for the duration of the war.

The question of mechanical pencils is something we cannot answer. They have been ordered for about 6 months. A reliable source says that the contractor is so rushed with government orders that they are about 3 to 4 months behind and supplies of metals are running low. We are forced to substitute an HB wood-case pencil until we receive definite word on the mechanical pencil situation. If you want mechanical pencils you will have to get some of those you have at home or in the back of your desk.

Be patient when you order a pencil and get a bolt. We have new apprentices also. After all they may only be substituting in an earnest effort to please.

The stockroom will continue to look for the best available substitutes for items impossible to procure. In "Saran" we have a very reliable substitute for brass, copper and aluminum tubing and fittings. The cheaper "Korosol" and the higher-priced "Neoprene"-synthetics are on hand as rubber substitutes, and soft steel shim is available in place of Swedish blue steel and and copper and brass shim. Swedish blue steel is out for the duration and our remaining supply must be conserved for the more important instrument work.

When designing equipment or ordering material please bear these necessary changes in mind. Call 252 for further information on the substitutions we carry.

The present storage facilities in the warehouse are overflowing with stored items. However we will have a large outside storage lot available before long, (we hope) in which to place items that cannot be affected by weather. Before we accept items for storage from the various sections, a storage form, "In duplicate" should be submitted through proper channels, see form, and when this form is properly acted upon and the necessary approvals gained the stockroom will have the items picked up and placed in storage. Please do not deliver items to warehouse until these approvals are received on the proper form.

Requests at stockrooms for any strategic materials such as brasses, copper and alloys; bronze, Swedish blue steel, rubber in all forms, aluminum and alloys, etc., must have some specific reasons why only these materials can be used.

You will not be issued these materials without an OK, so call 272 and ask for J. Bergbom if not available for D. Buchanan.
The fourteen apprentices comprising the first graduating class of the LMAL Apprentice School were graduated on February 4 in an impressive ceremony at the Post Theatre. The following men received diplomas entitling them to journeyman rating in their trades:

John H. Breisch
Clarence T. Brown, Jr.
Charles W. Cardwell
Charles M. Chambers
Durwood A. Dereng
Raymond W. Hulcher
Caldwell C. Johnson, Jr.
Robert E. Little
Dale B. Lively
John P. Morgan
Dale B. Lively
John P. Morgan
Horman R. Richardson
Roland Tully
Ralph L. Westphal
Francis S. Wolak

The following program was presented:

PRESIDING
INVOCATION
GREETINGS FROM STUDENT BODY
ADDRESS
INTRODUCTION OF SPEAKER
GUEST SPEAKER
PRESENTATION OF CERTIFICATES
FOR THE GRADUATES
BENEDICTION

The principal speaker at the graduation ceremony was Mr. William F. Patterson, U.S. Director of Apprenticeship. Mr. Patterson outlined the establishment and growth of education in this country stressing the importance to the war effort of a greatly increased flow of properly trained and highly skilled mechanics of all kinds to the war industries. He praised the thoroughness of the system employed in the Laboratory Apprentice School and commented very favorably upon the cooperative spirit of the mechanics and section heads in instructing the apprentices. Mr. Patterson's talk was very smooth interspersed with a very lively wit and was in every way a warm welcome and an inspiration to the young men to whom it was addressed.

TAXPAYERS NOTE

On or about February 8 there were distributed to all laboratory employees statements of the gross amounts of their earnings for the past year. These notices are made available in order that the members of the staff may be able to prepare accurate income tax returns.

Because of the difficulty experienced by Laboratory employees in procuring such items as tax forms, ration forms, or any of the many other forms required by Laboratory employees in their business or personal affairs, it is desirable that the Laboratory stock and dispense as many such forms as practical. Some service of this sort is already being rendered but for general convenience, it is desired to expand it. Aside from the convenience to employees, the war effort will be benefited by the saving of lost time due to the trips to town by employees, now necessary which may be eliminated.

This idea expands naturally into what additional service could the Main Office render which would add to the general well-being of employees and the Laboratory alike. Any such services would necessarily have to be within the capacity of the office staff to render. However, time can be made available for worthwhile items.

The employees themselves can best suggest the services that would benefit them most. If you have an idea, send it to the Chief Clerk. All suggestions will be answered promptly. The staff will be advised through the Bulletin of the progress of the idea - if and as you show how.
GOOD MORNING

How many of you come to work without any breakfast? We are all reluctant to admit it, but weekly breakfasts are certainly apt to be a hurrying, unplanned affair. I often wonder how some people manage to struggle through the morning on the inadequate food which they call their breakfast. A good breakfast starts the day off with a bang - gives us energy, enthusiasm - does away with midmorning slump and generally makes the world look a great deal brighter.

You haven't time for breakfast? Then up, 15 minutes earlier for that first and most important meal of the day.

Breakfast plays a big part in efficiency. Both "hidden" and "hollow" hunger may result from lack of breakfast.

Think what a long period there is between the dinner and tomorrow's lunch. This long period without food imposes too great a strain on our systems.

We need certain nutrients each day, and if we skip breakfast, we are likely to miss out on some of these nutrients, for it is hard to get them all in two meals. An old saying, so-called "nerves" and "jitters" can be cured by getting an adequate breakfast each day.

Now what foods are needed for breakfast? Generally speaking, our meals follow a pattern, and a breakfast pattern should be something like this:

Fruit
Cereal
Protein dish (as eggs, sausage, chipped beef, etc.)
Bread (whole grain or enriched)
Beverage

Sometimes the cereal may be omitted, if you don't feel the need of a heavy breakfast. Or sometimes the cereal may be served in place of the protein dish. Once in a while the fruit and cereal may be served together, as raisins and cream of wheat. There are many variations that may be made, but this general type of breakfast should be eaten each day to furnish many of the elements our bodies need.

EVERY P-I A KING IN A CASTLE

In the last issue of the Bulletin we welcomed to our fold a large group of new Junior Engineers. In order that this welcome may not prove too soon a purpose alone, we must issue an appeal to all the staff to help us find living accommodations for the new men. As required by the war production program, we must also find a place where we can have a common room where the men can, in the evening, have a place to come and relax.

A story which illustrates the trend is one told us by Clyde Lumpkin. It seems Clyde was shopping on King Street when a friend dashed up and informed him that a man had just fallen off the Ben Bridge and drowned. "Well," asked Clyde, "didn't you try to save him?" "No," his friend replied, "I thought I'd better go see if I couldn't rent his apartment." "Have any lucky" inquired Clyde, (always the philosopher). "No, I was too late," answered his friend. "The fellow who pushed him in beat me to it." So it is with a view to forestalling any such drastic measures on the part of the new engineers that we ask each one of you to look around your homes and see if you haven't a spare room in which you can house, if only temporarily, one or more homeless P-I's. Ask your neighbors if they can help also.

Remind them that providing shelter for the homeless is one of the seven cardinal virtues, and if you can find out what the other six are send them in to us.

As you know, there have been critical materials and those where no absolutely suitable substitute is available have such vague delivery status that no guarantee can ever be given as to when deliveries will arrive.

Please remember that we are restricted to carrying only such supplies of critical items as required by the war production board.

Inspection slips are very important; they must be signed and returned promptly. Or don't be paid for until these slips are returned. If slips are delayed, the contractor will not be paid. Some contractors do not want our business for this reason, thus making a delay in obtaining urgently needed material. Please cooperate; include all information requested on the slips, sign them, and return to the stockroom.

Some orders have discounts that must not be lost. These orders must be received, inspected, approved, and vouchers sent to Washington paid for within the discount period so that there is little time to be lost. Don't be the one to waste taxpayers money by losing discounts.

The Safety board has notified the stockroom that no gas cylinders will be loaded, hauled or unloaded unless the protective cap is over the valve and securely screwed down. Empty cylinders without food is imposed too. But think how you would feel if you had to take a ration stamp for every item of stock you get. We are really giving you stock "without" any kind of a ration stamp.

Due to the abnormal increase in consumption of compressed gases by the various service sections, including the setup for apprentice instruction, it is a constant headache trying to get empty cylinders to refill. Please notify the stockroom at 252 or 339 as soon as you empty a cylinder. We have the main service shops cooperating with us fully in this respect but there are some outlying activities which hold on to our cylinders like a mother hen even after the egg is longer any good. Please! Please! Just let us know about empties.

In regard to the larger research jobs, there is little armament. Concerning when you propose to draw abnormally large quantities of any stock would be appreciated and would help us immensely. A glance at your stock list will give you an idea of the quantity of any stock we carry by multiplying the minimum shown by about 50%, providing of course that it is not a "too strategic" material. Critical materials and those where no absolutely suitable substitute is available have such vague delivery status that no guarantee can ever be given as to when deliveries will arrive.

Please remember that we are restricted to carrying only such supplies of critical items as required by the war production board.

Inspection slips are very important; they must be signed and returned promptly. Or don't be paid for until these slips are returned. If slips are delayed, the contractor will not be paid. Some contractors do not want our business for this reason, thus making a delay in obtaining urgently needed material. Please cooperate; include all information requested on the slips, sign them, and return to the stockroom.

Some orders have discounts that must not be lost. These orders must be received, inspected, approved, and vouchers sent to Washington paid for within the discount period so that there is little time to be lost. Don't be the one to waste taxpayers money by losing discounts.

The Safety board has notified the stockroom that no gas cylinders will be loaded, hauled or unloaded unless the protective cap is over the valve and securely screwed down. Empty cylinders without food is imposed too. But think how you would feel if you had to take a ration stamp for every item of stock you get. We are really giving you stock "without" any kind of a ration stamp.

Due to the abnormal increase in consumption of compressed gases by the various service sections, including the setup for apprentice instruction, it is a constant headache trying to get empty cylinders to refill. Please notify the stockroom at 252 or 339 as soon as you empty a cylinder. We have the main service shops cooperating with us fully in this respect but there are some outlying activities which hold on to our cylinders like a mother hen even after the egg is longer any good. Please! Please! Just let us know about empties.

In regard to the larger research jobs, there is little armament. Concerning when you propose to draw abnormally large quantities of any stock would be appreciated and would help us immensely. A glance at your stock list will give you an idea of the quantity of any stock we carry by multiplying the minimum shown by about 50%, providing of course that it is not a "too strategic" material. Critical materials and those where no absolutely suitable substitute is available have such vague delivery status that no guarantee can ever be given as to when deliveries will arrive.

Please remember that we are restricted to carrying only such supplies of critical items as required by the war production board.

Inspection slips are very important; they must be signed and returned promptly. Or don't be paid for until these slips are returned. If slips are delayed, the contractor will not be paid. Some contractors do not want our business for this reason, thus making a delay in obtaining urgently needed material. Please cooperate; include all information requested on the slips, sign them, and return to the stockroom.

Some orders have discounts that must not be lost. These orders must be received, inspected, approved, and vouchers sent to Washington paid for within the discount period so that there is little time to be lost. Don't be the one to waste taxpayers money by losing discounts.

The Safety board has notified the stockroom that no gas cylinders will be loaded, hauled or unloaded unless the protective cap is over the valve and securely screwed down. Empty cylinders without food is imposed too. But think how you would feel if you had to take a ration stamp for every item of stock you get. We are really giving you stock "without" any kind of a ration stamp.

Due to the abnormal increase in consumption of compressed gases by the various service sections, including the setup for apprentice instruction, it is a constant headache trying to get empty cylinders to refill. Please notify the stockroom at 252 or 339 as soon as you empty a cylinder. We have the main service shops cooperating with us fully in this respect but there are some outlying activities which hold on to our cylinders like a mother hen even after the egg is longer any good. Please! Please! Just let us know about empties.

In regard to the larger research jobs, there is little armament. Concerning when you propose to draw abnormally large quantities of any stock would be appreciated and would help us immensely. A glance at your stock list will give you an idea of the quantity of any stock we carry by multiplying the minimum shown by about 50%, providing of course that it is not a "too strategic" material. Critical materials and those where no absolutely suitable substitute is available have such vague delivery status that no guarantee can ever be given as to when deliveries will arrive.

Please remember that we are restricted to carrying only such supplies of critical items as required by the war production board.

Inspection slips are very important; they must be signed and returned promptly. Or don't be paid for until these slips are returned. If slips are delayed, the contractor will not be paid. Some contractors do not want our business for this reason, thus making a delay in obtaining urgently needed material. Please cooperate; include all information requested on the slips, sign them, and return to the stockroom.

Some orders have discounts that must not be lost. These orders must be received, inspected, approved, and vouchers sent to Washington paid for within the discount period so that there is little time to be lost. Don't be the one to waste taxpayers money by losing discounts.

The Safety board has notified the stockroom that no gas cylinders will be loaded, hauled or unloaded unless the protective cap is over the valve and securely screwed down. Empty cylinders without food is imposed too. But think how you would feel if you had to take a ration stamp for every item of stock you get. We are really giving you stock "without" any kind of a ration stamp.

Due to the abnormal increase in consumption of compressed gases by the various service sections, including the setup for apprentice instruction, it is a constant headache trying to get empty cylinders to refill. Please notify the stockroom at 252 or 339 as soon as you empty a cylinder. We have the main service shops cooperating with us fully in this respect but there are some outlying activities which hold on to our cylinders like a mother hen even after the egg is longer any good. Please! Please! Just let us know about empties.

In regard to the larger research jobs, there is little armament. Concerning when you propose to draw abnormally large quantities of any stock would be appreciated and would help us immensely. A glance at your stock list will give you an idea of the quantity of any stock we carry by multiplying the minimum shown by about 50%, providing of course that it is not a "too strategic" material. Critical materials and those where no absolutely suitable substitute is available have such vague delivery status that no guarantee can ever be given as to when deliveries will arrive.
MODEL DOPE

BY Dick Everett

The first indoor Contest of the season was a huge success. As usual, Hewitt Phillips was the winner, his time 6:40.7. This time is really remarkable for such a small ship and it was only after numerous trials that it was accomplished. In second place was Joe Boyle with a time of 5:35 and Dick Everett third with 5:24, fourth was Crane with 5:21, fifth C. C. Johnson time 4:15, 6th R. Sladek 4:34.

Altogether seven contestants took official flights while there were only 14 at the contest. At one time there were over eight ships in the air and at one time looking very much like a bunch of oversized moths because of the ships small size. It was especially encouraging to see the number of contestants out for this meet for the ships are the hardest of our many types to build and fly.

One of the most interested spectators was Mr. Ernest Johnson, Chief of Technical Service, who seemed vitally interested in the ships, their weight, times and records. Accompanying Mr. Johnson was his son who has just recently returned from the far Pacific Battle-field where he saw a great deal of the action that has so far taken place.

He is home on furlough from the Navy.

The second indoor meet is scheduled for the 17th, with Class B models holding forth. These ships will have from 30 to 100 sq. in. in wing area and will be approximately 48" in span. The weight of the lightest of these ships will be close to 0.35 oz. without the rubber. Time will be close to 8 minutes depending on the weather. This may sound foolish but a lot depends on whether outside. A warm sunshine day with very little humidity is the best. The time being higher on this type of day than any other.

The outdoor Gas Model Contest has been indefinitely postponed due to the ban on pleasure driving. We realize that it would be perfectly possible for most of the fellows to get to the field without a car, but there would be those few who would drive their cars; this would undoubtedly cause the cancelling of their rations book and we don't want that to happen. When this ban is over we can look forward to the largest local meet ever held in this area. Keep up the building.

Latest reports have it that Paul Marchel is finally building a ship of his own design. Best ship, the "Hod Cat" with a vanguard wing and tail, does pretty good, but his own "F" is not so good. Wonder what will happen to the "Gremlin?"

(Continued next column)

SKYWAYS UP AND DOWN

All the good dirt seems finally to end up in this column so I won't help out, if you know anything good, see that it gets to Dick Everett. Here we go:

Gilbert has a new Texas ship. The original won the State meet and was lost at the Washington victory meet.

Hamill and Burke have a new Pencil Bombers finished, saw them gliding them the other day, looked pretty good.

Ed Price has a Scotch tape special. Seems as though everything is held together with that Stick-Stuff.

Frank Sharpener holds forth as the first to fly this year. At 12:01 he and Dick Sladec got the model going. The ship was launched and recovered a day later.

Junior "Small Fry" Jones has a sweet looking "29" job all finished. The only trouble is the motor won't run on internals. Seems like Sirkel has a new (old) dream type ship. The ship was lost about 6 months ago and recently recovered (both ways).Powered by a bullet he declares it to have the fastest climb of any ship ever built. We wonder.

Seems as though Rosemary Taibi is again building Dodgers. This time a "C" with a Super Cike up front. Hope it does better than Beitchmans.

Wonder if Webber gets to do every time he shows up at the field with Culpepper's Playboy. The meat one he won the Baltimore contest with.

Wonder why you always see big boys with small ships. Jim Cox is the latest. A small atom job. Why not pick something your size? Herb Andrews has a new ship of small cross section that really flies sweet.

Can you imagine gas builders building indoors? Well Frank Parmenter did it and got away with it. We would really like to see some of the other hotshots out. If you don't you are going to get challenged!

WHAT'S YOUR ORDER NUMBER?

Every registrant should secure from his Selective Service questionnaire and report promptly to the Selective Service Office, the order number that has been assigned to him, because every laboratory communication with the registrant's local board must bear the proper order number.

Every registrant is responsible for knowing at all times what his number is.
Mr. and Mrs. E. W. Miller entertained Friday, night, January 25th at a party at their home. They had as their guests members of the computing section.

Mr. and Mrs. Joseph A. Shortall entertained members of the Free Flight Tunnel at their home Saturday night, January 30.

The Structures Lab. turned out on the evening of January 30th for their biggest party of the year. The fuel shortage made the American Legion Hall in Hampton a rather frigid gathering place, but the wit of Evan Schuette, the master of ceremonies, kept the celebrants warm and effervescent.

Consensus: "Swell Party."

We extend our warmest congratulations to Captain Donald R. Eastman, Jr. of the Liaison Office, who was promoted to his present rank on February 4.

The best wishes of the Photo Lab. go with their three recent additions to Uncle Sam's fighting men. John Kauffmann is serving his country at some unknown outpost in the tropics. Eugene Snyder and William H. Guy, Jr. have been called up as Air Cadets.

The Air Flow Research section threw its annual party on the evening of the 13th at the home of Mr. Jacoby. A highlight of the affair was the able showmanship of Seymour Bogdonoff, who is master of ceremonies, presented a side-splitting program of laughs which made the affair really outstanding.

Mr. Leo Francis Fehlner of the Stability Tunnel will be married to Miss Frances Anne Kirby on Saturday, February 20 at 10:30 in the Church of the Holy Name, Washington, D. C. A reception following the ceremony will be held at the Norden Park Hotel.

Congratulations to Bob Bullock, Supercharger, who recently became engaged to Fay DeGarls, Hampton. Date of the wedding has been set for February 19th.

Janet Hollingworth of the Stenographic Section has returned to work after a long absence.

LANGLEY VIEWS - J.R.C.
THE NACA TANKS - PART 2
THEIR WORK

The testing done in the NACA tanks has kept pace with rapidly changing seaplane design. Within the past few years the emphasis in tank testing has changed almost completely because of new problems inroduced by increasing seaplane weight and take-off speed.

Formerly, only resistance tests were run on model seaplane hulls. In this type of testing, the model is towed through the water without ever taking off, and various force, trim and force readings are made. The data obtained can be combined with aerodynamic test data to determine accurately the time and distance required for take-off. When the newer and faster seaplane designs began having trouble with longitudinal instability at take-off and landing, it was necessary to run new type of tests.

The latest dynamic models being tested in the tanks are equipped with powered propellers for investigating the effects of power on the take-off run. A further extension of dynamic testing of powered models is now being started - tests of models free to rotate about all axes. At present, the models are free only to pitch and to move longitudinally and vertically. In the new type of testing, the models may also roll and yaw, thus making possible a study of its lateral stability on the water.

In tank number I, considerable work has been done with hydrofoils - tests with sections similar to airfoils which operate under water and give enormous lift due to the density of the water. In this test, the tank is attempting to develop and improve the design of hydrofoils in order that they may be used to speed up the rise out of the water of seaplane floats and speed boat hulls. The events recorder which has been used extensively in full-scale flight testing, was designed and developed through the cooperative efforts of the tank and NACA Instrument section personnel. This de- (Continued on Page 6)

Mr. and Mrs. Wallace R. Blake announce the birth of a daughter, Barbara Kathleen, on January 14, 1943.

Mr. and Mrs. John E. Doyle announce the birth of a son. Mr. Doyle is with the Engineering Section.

Mr. and Mrs. Ben Vogel announce the birth of a son. Mr. Vogel is the Art Editor of the Bulletin and is with the Instrument Service Section.

Congratulations to Mr. and Mrs. Stanley Clason on the birth of a son on February 11. Mr. Clason is with the Photo Lab.

NACA Exchange Committee

Mrs. Upshur Joyner has been appointed the West Area representative of the NACA Exchange. It is requested that all recommendations or comments concerning the West Area cafeteria be forwarded to her in writing. These will be considered at the regular meeting of the NACA Exchange Committee.

Because of the transportation situation and the need to hold many of our staff meetings after regular working hours, it has become necessary for many of these groups to have dinner in the Laboratory cafeteria preceding the meetings. It is requested that in all cases arrangements for this type of meeting be made well beforehand with Mr. Walter Reiser. This will give him an opportunity to have the necessary cafeteria personnel and food available.

Arrangements for all other meetings after working hours on Committee premises and not involving dinner should be made through the receptionist in the Administrative Building so as to avoid conflicts in the rooms used for such purposes.

The Special CRT bus for NACA workers leaves Claremont Avenue and First Street at 7:45 AM instead of at 7:50 AM. At present this bus is not well patronized and there is the real possibility that this service may be discontinued if it is not used by more NACA workers.
NACA CREDIT UNION ANNUAL MEETING

The annual meeting of the NACA Credit Union on January 27, 1943 at the Administrative Building was a great success judging from the number of participants and the enthusiasm with which the two excellent pictures on synthetic rubber and aluminum were received. Many complimentary remarks were heard about the preparation and service of the dinner held at Ye Reisar's Cuisine.

The business meeting proved to be the most interesting part of the evening with all members actively participating in the many debates and arguments on policies, procedures and by-laws. The highlight of these discussions occurred when, on an impassioned plea by a member for an increase in the dividend rate, it was brought out that the factors controlling this dialectician, as admitted by himself, were those of imminent death and an expensive wife (in that order). The increase was voted and a 4½% dividend was declared.

A parliamentary snarl developed when, during the presentation of candidates for the Board of Directors, it was brought out that a by-law had been passed preventing the selection of a section head to the board. However, for the information of all members, a careful perusal of the by-laws as adopted by the organization and an examination of the minutes of all previous annual meetings revealed no such by-law.

An organization meeting of the new Board of Directors elected the following members to be officers of the Credit Union for the year:

John B. Garvin President
George F. MacDougall, Jr. Vice-President
Paul D. Taylor Treasurer
H. Arthur Samet Clerk-Secretary

The attention of all new employees is called to the Christmas issue of the LMAL Bulletin for information concerning the functions and purposes of the credit union and the names of the members of the Educational Committee who will supply membership blanks for all those interested in joining.

BEFORE AND AFTER

This paragraph is set in the ordinary typewriter form such as has been used in the previous issue of the Bulletin. The remainder of the issue was prepared on the new Vori-typer, which gives a choice of type faces and also provides straight margins.

The type style used for this issue is the Heavy Gothic whereas the type used for this paragraph is the standard Pica. Which do you like best?

LIFE INSURANCE AND HOSPITALIZATION

The NACA Protective Association, a nonprofit organization composed principally of employees of the NACA, has been formed for the purpose of affording members and their dependents the opportunity of purchasing group life insurance and hospitalization insurance. All permanent and probational employees, and those appointed for the duration of the emergency, are eligible to join the Association and to purchase life insurance at the low rates obtained by the group.

The Protective Association also accepts applications for the Virginia Peninsula Hospital Service Association, which permits a holder to go to one of the local hospitals in Hampton or Newport News, and the North America Assurance Society, which covers any hospital in the country.

Sample policies and further information on the life insurance and hospitalization plans may be obtained from any of the following persons:

<table>
<thead>
<tr>
<th>Name</th>
<th>Section</th>
<th>Phone</th>
</tr>
</thead>
<tbody>
<tr>
<td>Albert W. Bainbridge</td>
<td>Instrument Service</td>
<td>310</td>
</tr>
<tr>
<td>John W. Ethier</td>
<td>Tank</td>
<td>218</td>
</tr>
<tr>
<td>William Gracey</td>
<td>Flight-Research Instruments</td>
<td>366</td>
</tr>
<tr>
<td>Charles A. Hastings</td>
<td>Instrument Research</td>
<td>218</td>
</tr>
<tr>
<td>Percy R. Keffer</td>
<td>Carpenter Shop</td>
<td>264</td>
</tr>
<tr>
<td>Ruth T. Boll</td>
<td>Office of Engineer-in-Charge</td>
<td>271</td>
</tr>
<tr>
<td>Norman A. Richardson</td>
<td>Instrument Research</td>
<td>218</td>
</tr>
<tr>
<td>H. Jerome Shafer</td>
<td>Instrument Research</td>
<td>218</td>
</tr>
<tr>
<td>Morton J. Staller</td>
<td>Instrument Research</td>
<td>218</td>
</tr>
</tbody>
</table>

OIL AND GASOLINE DRUMS ARE VITAL TO THE WAR EFFORT

Notice to all mechanics, section heads, and engineers. Your undivided attention is directed to the Laboratory memorandum of August 7, 1942 which reads as follows:

"1. Oil and gasoline drums are vital to the War Effort for the transportation of fuels. The oil companies cannot in some cases make deliveries of oil and gasoline needed by the Laboratory unless enough drums are returned to cover the amount to be delivered.
2. In the past it was possible to keep drums longer than the free time, forfeit the deposit and keep the drum. This practice no longer exists, and all drums, even those included in the price of the contract, must be returned.
3. It has been discovered that some of the sections are using drums that have been emptied to store other oils, and some even sent to dump. These drums must be returned promptly to the Warehouse in the West Area so that they may be returned to the proper companies.*"

If company drums are the only means of storing oil and gasoline, steps should be taken to obtain enough drums so that company drums may be emptied and returned immediately.

The practice of returning containers applies to bottles, reel-sand cylinders as well as drums. When in doubt return the containers to the warehouse and they will be returned to the contractor or held so that they may be issued again.

TRAVELERS SHOULD AVOID WEEKENDS AND HOLIDAYS DURING 1943

The following memo came from the Washington office:

"It is requested that annual leave which involves travel throughout the period January 16 to December, be scheduled to avoid holiday periods wherever possible, and that employees be encouraged to begin and end leave periods during the middle of the week, to help level off the week-end travel peaks."

It is hoped that the Laboratory will cooperate with this request. It was made with a view to helping the boys in our Armed Services and those of us who cannot travel during the week. The NACA has a fine record of "helping" in this - our war - and we shall continue this help in every way possible.

GREEN COW DANCES SUSPENDED

At a meeting held last week, the Green Cow Committee reluctantly decided that it would be impractical to present any of their famous dances until there was some alleviation of the transportation shortage.

EDITOR'S NOTE: This means there will be no dances until we cease to be dependent upon automobiles and accept the fact that we must go on living without them.
NACA HOUSING PROGRESSING RAPIDLY

THIRTY-O DD UNITS NEAR COMPLETION

The time is not far distant when "Cavalier Court" will be synonymous with "NACA people", to judge from the rapidity with which our housing project is being erected. Already some thirty houses are in various stages of construction. But this is only a good beginning. The project will extend far beyond the limits visible at present and will contain 128 units comprising an equivalent of about six square city blocks. 'Twill be quite a community.

These houses are being constructed with redwood siding and hardwood factory-finished, floors. The floor plan shown at right is being used with slight variations, (such as reversing it), in all the five different type units. But don't think that the houses are therefore monotonously alike, they're not. There are five exterior shapes and at least eight different color schemes, so you'll be able to find your way home on even the foggiest nights.

The houses are being wired with a three-wire lighting service with 220-volt connections for electric ranges. Other electrical features include two wall outlets in each bedroom, (which is unusual in present building), as well as dome ceiling lights in all rooms, and a 1000 watt electric heater built into the bathroom wall. In addition to this the units are "converted to coal" with the stoves shown in the plan. The location of our new homes is exceptionally convenient both to the field and to a shopping center.

The center of the project is 2.4 miles from the Administration Building and about 500 yards from the general grocery store at the traffic circle. Of course the bus lines to any spot on the Peninsula are very convenient to the Court.

LANDEY VIEWS

(Continued from Page 4)

vice, which records pertinent data during take-off and landing tests has already been used on the PBY-5, the PBY-1, and the PBY-8, and has shown that these tests are in good agreement with the model tests of the same airplane in the NACA tank. Although the work of the tank has been widely diversified and ever-changing during the past few years, the testing and improvement of particular seaplane designs has not been neglected. In fact, within the past 10 years, every flying boat built in the United States, with but one exception, has been tested in the NACA tank.

Cylinders cannot be exchanged for full ones unless these caps are on the cylinders, so keep the caps with the cylinders at all times. We have been looking over the "lost" ads of the various "local rage" from time to time in an earnest endeavor to locate the owners of various items that have strayed into our possession. Personnel seem to take a fiendish glee in entering and leaving in our stockroom various articles of merchandise containing no markings and identification. They must chuckle indeed in watching us hunt vainly for the owners. When you deliver articles to us please write on them the "why and wherefore".

Please note that all requests for envelopes of any and all kinds whatsoever must be made to the duplicating room. The stockroom no longer has any authority to issue them.

P.S. Watch your speed going out the west gate at quitting time. There has been a speed trap there at various times lately.
ATTENDANCE RECORDS BEGIN TODAY

ANNUAL LEAVE LIMITATION

NOW 20 DAYS

Effective March 5, each member of the Laboratory staff will be required to sign in and out on the Attendance Record sheet in his section, noting thereon the times of his arrival and departure. The enactment of the recent legislation establishing a more definite relation of pay to working hours has made this procedure necessary, in the interest of uniform administration, in order that there may be determined the actual number of overtime hours worked.

15 MINUTES TARDINESS ALLOWED

Also effective March 5, any employee who is tardy up to 15 minutes may work on equivalent time at the end of the working day without being charged with annual leave.

This regulation, with the prior approval of the section head, may be applied to the lunch period. That is, up to 45 minutes may be taken for lunch, the additional time being worked at the end of the day.

Tardiness over 15 minutes will be charged to annual leave.

(Continued on page 5)

RED CROSS DRIVE STARTS MARCH SIXTH

THIRTY LMAL WOMEN EMPLOYEES TO SOLICITE CONTRIBUTIONS

Employees of LMAL will have another opportunity to contribute to the war effort, beginning Saturday, March 6, as the combined membership drive and war fund campaign of the American Red Cross gets under way at the Laboratory. The campaign will continue through the following week, and officials anticipate concluding the drive and preparing reports by Saturday, March 13.

Campaign chairman will be Mrs. Lucy Bainbridge, of the Stenographic Office, who has appointed thirty women employees of the Laboratory to seek contributions from LMAL personnel. Mrs. Bainbridge has requested that employees of the Laboratory cooperate with the solicitors by having their contributions ready on March 6, thereby enabling the volunteer workers to complete the canvass as soon as possible.

(Continued on page 5)

E.T. ALLEN KILLED IN BOMBER CRASH

Last mid-February former LMAL test pilot Edmund T. Allen, who had proudly watched from his cockpit as aeronautical research emerged into maturity, made his final flight. Director of the Boeing Flight and Aerodynamics Department, Allen was piloting a four-motored army bomber, with eleven other experts aboard, when the plane flared into.

(Continued on page 6)

90-DAY LEAVE MADE RETROACTIVE TO '39

The LMAL Personnel Office has received notification of a decision of the Comptroller General in Washington, changing the effective date of the provisions of the Act of Congress approved on Dec. 17, 1942, designated as Public Law 806 and which concerns the accumulation of leave.

It was previously announced in the Bulletin that annual

(Continued on page 6)
**PENINSULA BANKS' SCHEDULES LISTED**

For the convenience of the Laboratory staff the following schedule is presented showing the banking hours of the Peninsula banks:

**SCHEDULE A**

9:30 A.M. to 2:00 P.M. weekdays. 9:30 A.M. to 2:00 P.M. and 6:00 P.M. to 8:00 P.M. on Fridays. 9:00 A.M. to 12:00 N. on Saturdays.

The above schedule is used by:


**SCHEDULE B**

9:00 A.M. to 2:00 P.M. weekdays. 9:00 A.M. to 12:00 N. on Saturdays.

This schedule is followed by:

Old Point National, Old Point; Phoebeus Bank, 30 S. Mallory; Fox Hill Bank, Fox Hill, Va.; Merchants National, King and Queen Sts.; Citizens' National, King and Queen Sts.; Also 4:00 P.M. to 5:30 P.M. on NACA paydays.

**SCHEDULE C**

9:00 A.M. to 2:00 P.M. weekdays. 9:00 A.M. to 2:00 P.M. and 4:30 P.M. to 6:00 P.M. on Fridays. 9:00 A.M. to 12:00 N. on Saturdays.

This schedule is used by the Bank of Hampton Roads, 3214 Washington Avenue and its Wythe branch at 2409 Keoughan Road.

**SAVE FOR FREEDOM:** This is the bond age. But there is no bondage in war bonds.

---

**YAWING CHARACTERISTICS OF WHEELCHAIRS**

By Robert A. Weinberger, Inv.

**SUMMARY**

Wheelchairs tend to yaw.

This extraordinary phenomenon is quickly noted upon attempting high velocity transits of hallways. It can be proved that the angle of yaw, \( \psi \), is a function of the square of the deflecting force, \( \Delta P \), which is the excess wheel force applied to the wheel opposite the direction of yaw. I shall not prove it.

**Purpose**

It is the intention of this report to establish qualitative and perhaps (if the author feels like it) quantitative criteria on the stability of two wheel drive wheelchair. At the time of this writing, no one wheel, three wheel, or power driven wheelchairs have been invented, hence it seems logical that this report should confine itself to the conventional, even unique, type of wheelchair. The stability in yaw will be the only case considered because the modern wheelchairs have no tendency to pitch. Furthermore, with reference to stability in roll, it is an obvious fact that a wheelchair must roll or it would be an exceedingly worthless thing indeed.

**DESCRIPTION OF THE WHEELCHAIR**

For the benefit of those unfamiliar with this vehicle for locomotion, a lengthy description of a wheelchair is given. (See fig. 1).

---

**CAN YOU SOLVE IT?**

**PROBLEM IN PERSONNEL:** Edgar, that super-salesman, was all set to completely furnish a big defense laboratory with supplies. First, though, he had to straighten out a little tangle about who was who in the place. He knew that there was a Mrs. Simpson, a Miss Green, a Miss White, a Mr. Jones, a Mr. Smith, and a Mr. Brown. He didn't know which was which, but the firm had a President, a Vice-President, a Chief Chemist, a Laboratory Technician, a Stock Clerk and a Stenographer. If he only knew who belonged to what job, he could sell a whole raft of stuff. So he got very busy (for a change), and unearthed these facts:

1. The Vice-President is the President's grandson.
2. The Stock Clerk is the Chief Chemist's son-in-law.
3. The Technician is Miss White's niece.
4. Mr. Jones is 25 years old.
5. Mr. Brown is a bachelor (handsome too).
6. Mr. Smith is the President's neighbor.

Marjorie, Edgar's assistant, of course, untangled her boss, and so he landed the order.

(See page 5 for answer).

A force, \( P \), applied at the periphery of drive wheel \( A \) sets in motion rolling wheel \( B \). As yet no successful device to keep the patient's fingers out of the wire spokes has been suggested. The author firmly believes the only way to do this is to amputate the fingers.

Back again to the wheelchair -- little wheels \( C \) have no mind of their own, hence simply follow big wheels \( B \).

(Continued on page 3)
BUTLER BROTHERS GET APPOINTMENTS

Sherwood L. Butler, Technical Assistant in charge of all purchasing for LMAL, has been named Procurement Officer of the Langley Laboratory, according to an announcement by W. Kemble Johnson, Administrative Officer. His appointment was effective March 1.

Mr. Butler has been employed at the Laboratory since 1938, coming from Richmond where he was affiliated with the General Electric Company. Since coming to LMAL, Mr. Butler has seen service in several sections of the Laboratory. Born in Portsmouth on May 27, 1913, Mr. Butler attended Portsmouth public schools before entering Virginia Tech. He graduated in 1934 and studied post-graduate work in 1935, going then to General Electric. He makes his home in Newport News.

Yawning Characteristics

(Continued from page 2)

Directional control is obtained by greater angular velocity of the outboard wheel in the opposite direction of desired turn. Since turning is accomplished in this manner, just how in the heck do you differentiate between turning and yaw?

DISCUSSION

Extensive experiments carried out by the author prove that the curve of figure 2 exists, if only on this sheet of paper. Some curves are meant to give quantitative data, but it is the author's contention that all curves are appreciated, especially if they are in the right places. The curve of figure 1, however, is not meant to be appreciated in this sense. Note that the curve reminds one -- even two -- of the familiar second degree parabola. It should, that's what it's intended to represent.

In the light of the above argument, it seems that turning can be called yaw only when the turning is accomplished by no desire to turn.

CONCLUSION

Only a darn fool will use a wheelchair if he can walk.

EDITOR'S NOTE: This paper was prepared in the true spirit of scientific endeavor by Mr. Wiesenberger while confined to the Marine Hospital with a broken ankle.

OUT OF FRYING PAN'

INTO FIERY REHEARSAL

"Out of the Frying Pan", a fast-moving three-act comedy by Frances Swann, will be presented the latter part of March in the newly-remodeled auditorium of Hampton High School by the Hampton Little Theatre, with David Goldenbaum, of the LMAL Tank, as director. Preliminary rehearsals have already started and the complete cast of characters will be selected soon.

Made hit in New York

Described as "a gay bit of humor that makes an agreeable evening", the drama was originally produced with success at the Windsor Theatre in New York City by William Deer­ing and Alexander Kirkland.

"Out of the Frying Pan" deals with the efforts of three young women and three young men to break into the theatre. Stagestruck, and embarrassed financially, the six are forced to share an apartment. Their apartment is immediately above that of a Broadway producer who has a hit running and is about to cast a road company. They rehearse the show that he is currently producing and then set about to get him upstairs to see it. Complications develop and the fun begins.

CLAUDE F. INGELS NAMED

LMAL PROPERTY CLERK

Claude F. Ingels has been appointed, effective March 1, as Property Clerk of LMAL to succeed Charles Gustavus Haas, whose death occurred in Portsmouth on Thursday night, February 25.

An employee of the Langley Laboratory for the past three years, Mr. Ingels was formerly a clerk in the purchase office. He may be reached on LMAL telephone no. 216.
C.G. HAAS DIED FEB. 25

Death came last week to Charles Gustavus Haas, LMAL Property Clerk, whose adventures included bird's-eye views of the Philippine Insurrection, the Boxer Rebellion, and the disturbances in the Dominican Republic and other West Indian Islands. He won a medal for distinguished service in the Boxer Rebellion.

Mr. Haas was absent from his duties Feb. 24, on account of illness, but his death the following night at the Norfolk Naval Hospital in Portsmouth was unexpected to his associates at LMAL, where he had been employed since Aug. 24, 1929.

JOINED MARINES IN 1899

Employed as a butcher and meat cutter in 1899, Mr. Haas decided to enlist in the U.S. Marine Corps. Then began a continuing series of exciting assignments which carried Mr. Haas through two wars, the Spanish-American and World War I.

From Aug. 31, 1917, to May 30, 1921, Mr. Haas held a warrant as Marine Gunner and a temporary commission as second lieutenant, first lieutenant, and then captain. He retired as sergeant-major on Jan. 15, 1922, after 23 years of continuous service in the Marines.

He was an Ordnancemen from 1922 to 1926 and acted as a warehouseman at Fort Eustis for a brief period before beginning employment at LMAL.

GREEN COW DANCE

The spirit of the gay '90s, which typified a period in American History when men were men and "women were glad of it," will be exemplified in the mode of travel to the Green Cow Dance at the Hampton Armory tonight.

(Continued next column)

With rationing regulations in force, LMAL employees and their guests are expected to abandon their "gasoline chariots" in favor of such emergency transportation as bicycles, buggys, and the use of good ole shoe leather.

Public transportation will be available; in fact, the Langley Field bus stops near the Armory, located at 504 North King Street. The reason for holding the dance from 7:30 to 11:30, it was explained, is to encourage the use of public transportation.

T. Melvin Butler, chairman of the Noble Order of the Green Cow, announced that $2 membership tickets are being sold in various sections and will entitle purchasers to attend the remaining Green Cow dances this year. No single-admission tickets will be sold at the door tonight.

The affair will be strictly informal and music will be furnished by Red Overton and his orchestra, featuring songs by Dick Giersch. Other Green Cow officials are Axel Mattson, Frances L. Winder and John Garvin.
RED CROSS DRIVE  (Continued from page 1)

SEEKS INCREASED DONATIONS

In view of the fact that no membership drive was conducted last November, and because the war has resulted in an expanded Red Cross program, Mrs. George W. McAllister, executive secretary of the Elizabeth City County Red Cross Chapter, has asked LMAL employees to double the sum they usually give to membership campaigns, if possible. She said this is necessary in order for the Red Cross to continue its accelerated program at home and abroad.

The Elizabeth City County Chapter, which will be presented with all contributions collected in the LMAL campaign, has a $14,000 goal. Mrs. McAllister said that a large percentage of the funds collected at the Laboratory will remain with the County Chapter for the financing of its local program.

The national campaign goal is $125,000,000 which, with $20,000,000 as a balance from the first war fund drive, is expected to finance the organization to Feb. 28, 1944. Estimated expenditures and commitments from Jan. 1, 1942, to Feb. 28, 1943, amount to $57,600,000 for the national organization and $30,000,000 for the chapters.

VOLUNTEER WORKERS LISTED

The following is a list of solicitors and the sections they will canvass:

Miss Katherine C. Thomas, Administrative Division; Miss Ida Young, Chief Aero. Div. Offices, Editorial Office and Power Plants Installation; Miss Marjorie Mumford, Chief T. S. Div. Office; Miss Elizabeth T. Saunders, Maintenance Section; Mrs. Anna Land, Hydrodynamics Div.; Miss Vera Hucks, Physical Research Division; Mrs. Elizabeth B. Keetch, Power Plants Division; Miss Vivian Smith, Electrical Section; Miss Louise Moss, 16-Foot Tunnel; Miss Annetta R. Gwaltney, Propeller Research Tunnel.

Also Miss Marjorie T. Gildner, Stability Research Section; Mrs. Clara C. Anderson, Instrument Calibration, Blueprint Room and Photographic Lab.; Miss Emile C. Coe, Flight Research Loads and Computers; Miss Jeannette Cooper, Pressure Tunnel; Mrs. Temple Cook, Flight Research Maneuvers – Office; Miss Kathrym J. Puckett, Flight Research Pilots and FAL Maintenance and Repair; Miss Katherine F. Kelsey, Atmospheric Wind Tunnel; Mrs. Katherine A. Livesay, High-Speed Tunnel and 24-Inch Tunnel; Miss Frances Winder, Full-Scale Tunnel; Mrs. Iris Geer, Structures Research, Construction and Construction Inspectors.

Also Miss Katherine Thomason, Air-Flow Research; Miss Jeanne Godin, Engineering Section; Miss Kathryn A. Banick, Machine Shop (East Area) and Erection Shop; Mrs. Phylis Riley, Model Shop (East Area) and Dynamic Model Shop; Miss Marjorie Barber, Stock and L.W. Purchase; Mrs. Anne R. Robinson, West Sheet Metal Shop and Model Surfacing and Finishing Shop; Mrs. Frances Powell, West Machine Shop, Foundry and Prop. Shop; Mrs. Jessie A. Perle, Instrument Service; Miss Dorothy Cole, Instrument Research Section, and Miss Martha Willis, Apprentice Administration.

DOMESTIC FIGURES: LMAL's computing Section served a buffet supper at the Hampton U. S. O. Club Sunday night, Feb. 28, as the recreation center observed its first anniversary of operation.
RELY ON PERSONNEL TO CLOSE OFFICES

The reports of the night watchmen have disclosed an increasing number of windows left open, lights left burning, and in some cases doors left unlocked. Few buildings have escaped mention and the condition is general. In checking on these items it has been found that the belief is generally held that a janitor will take care of all such items. However, the staff is reminded that there is a shortage of janitors and in many buildings no janitor works as late as the end of the second shift.

Request Cooperation

Due to the shortage of janitors it is necessary to rely on the personnel of each shift to see that all windows are closed, and all lights out when the shift ends, unless another shift takes over. In regard to the doors found unlocked it is felt that this is due to carelessness on the part of the employees occupying the building, since all doors are required to be kept locked in the absence of the day-light shift.

The solution to these difficulties lies in having the person in charge of each night shift see that his subordinates keep the doors locked and close the windows and turn out the lights on leaving the building. Even though there might be, normally, another employee to take care of this, it is desired that Section Heads assume this responsibility.

A WINDY WELCOME: A daily newspaper reported recently that the NACA had included in its 1948-49 budget estimates $80,000 for a new "guest" tunnel. It's dis(gusting).

A WOLFE: The first fiscal year's appropriation for the National Advisory Committee for Aeronautics was $5,000.

E. T. Allen killed (Continued from page 1)

flames and began to disintegrate. As Allen sought desperately to maneuver the craft to a forced landing on the Boeing Field, it plowed blazing into a Seattle packing house. Allen was among several killed.

Allen's death takes the nation back to post-war days when the world was busy healing its wounds. Edward P. Warner, now a member of the National Advisory Committee for Aeronautics, had departed from the Massachusetts Institute of Technology to become chief physicist of the NACA. At Langley Field there was a personable young man who occasionally served as pilot for Warner in his early research into the flight characteristics of planes.

Risked Life Often

The young man was Allen and the planes then were nothing more than crates in comparison with today's air giants. It was left to men like Allen to risk their lives in valiant efforts to help obtain data necessary to develop the crates into masterpieces of design and performance. Allen had come a long way since the pioneering days, but he had returned to the Langley Laboratory frequently and was a friend of Melvin N. Gough, head LMAL test pilot, and others here.

Allen's contemporaries described him as an outstanding test pilot of large airplanes and a great figure in the aircraft sciences. He won many honors, among them the Chanute award for accomplishment in test flying in 1939. The Boeing Company, in mourning the loss of the pioneer airman, commented: "It has been the efforts of men like Allen and his crew, who even at the time of their death were engaged in aeronautical research, that have helped make American planes the best in the world."

GENERATING PLANT FILLS REAL NEED

Most NACA personnel do not realize what an impetus the Electric Generating Plant has given to war research of the LMAL. Previous to November 7, 1941, when the Plant was established, the tunnels had to make arrangements for each run with the local utility company and even then often had to wait until late at night to get sufficient power. Now they can run whenever the model is ready. One large tunnel used almost as much power in the past year of our operation as it had in the previous five years.

The Generating Plant itself is Diesel powered—a highly efficient and flexible power supply. In ten minutes' time, the Plant can go from all-engines-shut-down to full load output of 10,000,000 watts, and this is often done several times in a day.

During the first year of operation the Plant supplied the LMAL with 7,499,000 KWH which, if you were buying for your own home at the low rate of two cents per KWH, would entitle you to a bill of $149,980.

Leave Retroactive (Continued from page 1)

leave earned at the rate of 26 days per calendar year may be accumulated at that rate up to a total of 60 days and thereafter may be accumulated at a rate not to exceed 15 days a year up to a total of 90 days.

The effective date of this law has been changed from Jan. 1, 1943, to Sept. 8, 1939, the date on which the President declared a national emergency to exist. LMAL officials pointed out that the leave records of employees will be reviewed and where forfeiture of leave occurred in the past four calendar years, adjustments within the limits authorized by law and the Comptroller General's decision will be made.
RED CROSS DRIVE NETS OVER $2,000

LMAL employees came through with contributions totalling $2,000.25 in the combined membership and war fund campaign of the American Red Cross, conducted last week throughout the Laboratory, it was announced by Mrs. Lucy Bainbridge, of the stenographic Section, chairman of the drive.

Officials of the Laboratory were gratified at the response of the personnel in making the drive a success. Mrs. Bainbridge offered the thanks of the solicitors for the cooperation received by them.

This amounts to nearly 25 per cent of the $14,000 campaign quota assigned to the Elizabeth City County Red Cross Chapter, which will receive the funds collected at LMAL. The names of the workers, the sections they canvassed, and the amounts collected are listed as follows:

Miss Katherine C. Thomas, Administrative, $187.00; Miss Emilie C. Coe, Loads, Computers, $51.75, and $28.00; Mrs. Frances Powell, West Machine Shop, Prop Shop and Foundry, $57.25 and $33.25; Miss Elizabeth Saunders, Maintenance, $76.10; Vera Huckel, Physical Research Div., $48.50; Miss Kathryn Puckett, Pilots and Flight Research Maintenance and Repair, $38.00; Miss Jeannette Cooper, 19-foot Pressure Tunnel, $58.50;

(Continued on page 5)

AIRCRAFT PLANT NEARLY COMPLETE

The Bell Aircraft plant in the vicinity of Atlanta, Georgia, is expected to begin soon the production of long range multi-engined bombers of a closely guarded design for Uncle Sam's Army Air Forces.

The Army only recently approved the release of certain information concerning the plant, which will be one of the world's largest aircraft manufacturing centers. It will require 30,000 employees, two-thirds of them women.

(Continued on page 5)

PART-TIME WORKERS EMPLOYED BY LMAL

In an effort to alleviate the rapidly growing manpower shortage, employees for LMAL are being recruited from among the student bodies of High schools on the Peninsula to aid in the vital aeronautical war work performed by this Laboratory for the Army and Navy.

Through a systematic and carefully planned training program, these boys, whose minimum age is 16 years, are now receiving instruction in various Technical Service Shops. At the present time

(Continued on page 5)

NEXT GREEN COW DANCE IS MAR. 26

The Noble Order of the Green Cow is at it again! Encouraged by the success of its most recent dance on March 5, the Committee is formulating plans for the second dance of the year, to be held Friday evening, March 26, from 7:30 to 11:30 p.m. at the Hampton Armory.

T. Melvin Butler, Chairman of the Committee, said the orchestra has not yet been selected and will not be announced until the evening of the dance. The Committee offered its regrets at not being able to hold the affair on a Saturday, but there are no dance halls available on those days.

(Continued on page 6)

CONGRESS PATS NACA ON BACK

A pat on the back was given the NACA in this Congressional Record excerpt of Feb. 25, pertaining to the first efficiency appropriation bill of the 1943 fiscal year:

"Mr. Miller of Connecticut: 'Mr. Chairman, in the appropriation bill now before us we find an appropriation for three and one-quarter million dollars for the National Advisory Committee for Aeronautics, as well as an appropriation of a little over a million"
EDITORIAL STAFF OF LMAL BULLETIN

Joseph P. Doyle, Jr.---------------------Editor
H. Lee Dickinson----------------------Associate Editor
Ben Vogel-----------------------------Art Editor
LMAL Employees------------------------Reporters

'VICTORY THROUGH AIR POWER'
(An Editorial)

This month marks the 28th anniversary of the establishment by Congress of the NACA. Born in March, 1915, as the powers of Europe sought to settle their differences by resort to arms, and nurtured in a post-war world busy with rehabilitation, the Committee today finds itself face to face with another war—global in its aspects.

LMAL employees take just pride in the continued successful activity of the Committee and the contribution it has made to aeronautical research in its nearly three decades of existence. Let us realize our responsibility in this war and pledge anew our energies in an all-out program designed to assure the United Nations of "victory through air power."

Special Service Progressing

The special service which has been inaugurated in the Administrative Office and announced two issues back in the Bulletin, has been progressing and is constituting a worthwhile service for employees. The response of the Laboratory in general to the previous request for suggestions has been disappointing.

However, the office with its usual hardihood and desire to serve, has made progress which is gratefully received in some quarters. With this encouragement, those concerned desire to remove their light from under the bushel and let it shine throughout the Laboratory. Offered for your convenience are the following:

Our first really successful riding club service. If you have rides to offer, or if you need a ride call 313.

A schedule of transportation which includes bus schedules, street car schedules, ferry and train schedules. Telephone for any information you may require.

Forms of various kinds are available for the asking. Also blank checks, deposit slips and bank notes from the three banks rendering special service to Laboratory employees.

Answers will be given to any puzzling questions concerning any reasonable subject connected with the Laboratory, or its rules and regulations.

This is a service for your benefit and can be continued only if the Laboratory is sufficiently interested to warrant its continuance. Your suggestions are still in order.

PIONEERS: First wind tunnel in America was built by the Wright Brothers. It had a throat 12 inches square and a simple balance for measuring air forces on a model. GOOD AND TRUE: Early regulations stipulated that the NACA was to be comprised of no more than twelve members. There are fifteen members on the present Committee.

AERL ORGANIZING MUSICAL GROUP

AERL is forming a musical organization under the direction of Emory Maison, Installation of Research Equipment Section, who hopes to discover from among the group's membership a symphony orchestra, dance band, male chorus, and girls' glee club. Fred Bonnie, Jr., of the Stockroom Section, will direct the symphony—the Niacaca Social Club is sponsoring a semi-formal dance at Hotel Carter on March 20—A. M. Tessman has been officially appointed Technical Supervisor of research fuel storage facilities—B. G. Gillick has designated acting chief of the Construction Division—Ed Kalenstein, formerly of AERL Purchase, is studying to be a purchase clerk in Uncle Sam's Army—Harold Wiknick, art editor of Wing Tips, drew a new, permanent masthead for the AERL weekly—Frances Jackson is collecting reading matter for boys in the Armed Forces—Harrison A. Underwood is chairman of the AERL Red Cross campaign—A group interested in sharing good reading material has formed a library of privately-owned books—A square Club is being organized—Several AERL employees are registering with the Blood Donor Service of the American Red Cross.

HONEYMOONERS: Leo F. Felchner, of the Stability Tunnel, and his bride, have returned to their home at 3209 Chesapeake Avenue after a northern wedding trip, during which they visited his home in Dolgeville, N. Y., and the Adirondack Mountains.

VIRGINIA GENTLEMAN: Letters in answer to Purchase Office telegrams signed NACA are often received at LMAL addressed to Mr. Naca.

Did you cash a bond to pay your taxes, or save them to help defeat the Axis?
NACA IS NOW 28 YEARS OLD
PIONEERS HAD MANY DIFFICULTIES
ERE COMMITTEE WAS ESTABLISHED

Establishing the National Advisory Committee for Aeronautics, whose facilities have undergone an amazing expansion in its 28-year history, was no easy task - especially since aviation, like the horseless carriage, was viewed three decades ago as something of a crackpot fad without a future.

In addition to the misgivings with which Americans, after the turn of the century, looked upon aeronautics in general, a war was brewing in Europe, and President Wilson appeared reluctant to sanction the formation of a Committee for fear that it might be interpreted at the time as an unfriendly act.

U.S. Lax at First

Prior to the inauguration of the Committee the United States, with the exception of a few air-bitten pioneers who carried on despite the discouraging public apathy, had been extremely lax in the attention it gave to the possibilities of aviation - both as a means of commercial transportation and as a powerful weapon of war.

When on March 3, 1915, all opposition was dissipated and the Committee was finally approved by Congress as a rider on the Naval Appropriations Bill, European nations seemed far in advance of the New World in the field of aeronautical research and in the construction of new planes.

War Inspired Research

Perhaps the immensity of war "over there" inspired a planned program of research into the potentialities of aeronautics. At any rate, in the air scouting fleet of France in 1915 there were 1,500 military planes. Germany boasted 1,000 planes plus 14 zeppelins. England, however, could send only 100 planes to France with her early expeditory force.

The famous Wright Brothers who had been air-minded for a number of years previous, taught us to fly one day about 40 years ago on the bleak sand dunes of Kitty Hawk, North Carolina, but when Pershing went into Mexico in 1915 Uncle Sam was able to send only a "doubtful dozen" planes with him.

Walcott Interested

Dr. Charles D. Walcott, who early in 1913 was secretary of the Smithsonian Institution, began to assume an active interest in aeronautical research and the need for it in America. He must have read with chagrin the figures on the aeronautical expenditures of various countries from 1908 to 1913.

Aero Expenditures

During that period, Dr. Walcott learned with some disillusionment, Germany spent $32,000,000, France $28,000,000, Russia $12,000,000 and England $2,000,000, while the United States expended only $35,000, less than $75,000 a year. The comparison set Dr. Walcott pondering.

There had been some private research in America up to 1914, but the only Government research at that time was limited to preliminary work with an experimental wind tunnel at the Washington Navy Yard. Although the tunnel was being used advantageously, the expansive research needs overshadowed the meager facilities that were available.

Dr. Walcott concluded that America needed a bit of persistent prodding. He began to act. His plan was to reopen Samuel P. Langley's old laboratory in the Smithsonian. His enthusiasm was absorbed by some other well-known aviation pioneers and, as a result, Dr. Walcott, Capt. W. R. Chambers, Glenn Curtiss, and Orville Wright formed the Advisory Committee of the Langley Aerodynamical Laboratory.

ACCLAD Disbanded

It was a high-sounding name, but the Committee struck a low, unresponsive chord in official Washington. Disappointment was destined for Dr. Walcott in his first concerted action, for the Controller of the Treasury ruled that the Committee was not established by law, and, therefore, could use neither Government funds nor personnel. So the Advisory Committee of the Langley Aerodynamical Laboratory disbanded after holding three meetings.

Not easily discouraged was Dr. Walcott. He believed sincerely in the future of aeronautical research and the part his nation should play in it. He met his second rebuff when he presented his plan for an NACA to President Wilson. Shortly afterwards, however, the Committee was finally approved with an initial appropriation of $5,000.

Program Coordinated

Thus, the first Committee of 12 members, appointed by the President on April 2, 1915, began to function. Feeling its way gradually, the Committee slowly but surely began to coordinate its realm that demand attention not only from its own people but from nations that had enjoyed a head start on America.

Today the Committee directs the research activities of three widespread laboratories; LMAL at Langley Field, established soon after the Committee began to function; the Ames Aeronautical Laboratory at Moffett Field, Calif., named after a faithful former Chairman of the Committee, and the AERL at Cleveland.
BENEFACTOR: Daniel Guggenheim, up to the time of his death in New York on Sept. 28, 1930, had given approximately $6,000,000 for promotion of aeronautical knowledge.

An Apprentice Social Club has been established by a group of LMAL Apprentices with the view to sponsoring dances and parties and forming within the main organization various smaller clubs. The next meeting will be held at the Hampton USO Club Wednesday, March 24th.

A board of directors has been elected, including Leigh Lewis, chairman; Jack Kinzler, vice chairman; Joe Dodson, treasurer; Frank Dresback, secretary; Bertram Miller, publicity director; Gene Hicks, activity director; Bob Stewart, councilor, and Karl Lambroff, membership director.

The club is arranging to use the American Legion Hall in Hampton as a clubhouse. Dues will be $1.50 a month, plus a $1.00 membership fee. Graduates and prospective Apprentices who would like to join may communicate with Leigh Lewis.

NACA Complimented (Continued from page 1) dollars to complete the experimental laboratory at Cleveland, Ohio.

"I am glad to find this item in the bill. I think many times we have overlooked the importance of the work done by the National Advisory Committee for Aeronautics. Our Army and Navy and the units of our aviation industry have cooperated extensively with this committee. The enviable position in which we find ourselves in the aviation world, I believe, is due largely to the work of the Advisory Committee."

BENEFACOR: Daniel Guggenheim, up to the time of his death in New York on Sept. 28, 1930, had given approximately $6,000,000 for promotion of aeronautical knowledge.

"Hats off" to the Main Office and our old pal Clyde. His generous offer of various services, sight unseen to all, is really a noble gesture. What we want to know is whether to class it as propaganda. We might even class the offer as timed right, seeing as this is the time of year when a lot of hopes are being upheld. Or if his offer resembles such items as "gross earning" slips, he can rest assured we already knew the extent of that bad news.

What we would really have appreciated was information on how to have satisfied the "Uncle", stay "flush" and also stay out of jail or the poorhouse.

"Happy Living!"

But we have hearts too and are also making an offer. Our formula is for "happy living" and has worked for years. "You tell us your woes—we tell you ours, and when all the hot air has blown away the fellow who thought he had the biggest peave will probably be the most relieved."

A little early, or late—have it your own way, Santa is sending us some rare items, indeed: Ammunition trays for buckets, cardboard containers in place of tin, synthetic-covered primary wire to make Bill Elder happy again. Be careful about using the cardboard containers, though. We may have some on hand soon but from the data furnished by the manufacturer, I believe he is experimenting also.

Order By Phone

Let's cooperate and save rubber and NACA bus space. Order from stockroom nearest your activity by phone instead of sending someone by bus. When they do not have what you want they have been instructed to locate the nearest supply and have the regular delivery trucks deliver to your place of work. Order supplies in advance whenever practical so we can plan the best service routine in filling your orders.

Please see that caps on compressed gas cylinders are returned on the empties. We are forbidden to accept return of, and the driver cannot carry, capless cylinders.

Use the NACA bus as little as possible around starting and quitting time. Tired workers going home after a day's work need most of the space at those times and workers coming in on the late shifts also must be accommodated.
RED CROSS DRIVE (Continued from page 1)

Mrs. Temple Cook, Flight Research Maneuvers, $71.00; Mrs. Iris Geer, Structures Research, Construction Office; Construction Inspectors, $60.50; $17.00, and $4.00; Miss Kathryn A. Banick, East Machine Shop, Erection Shop, $62.00, and $35.00; Mrs. Jessie A. Peters, Instrument Service, $43.25; Miss Louise Moss, 16-Foot Tunnel, $67.50; Miss Frances Winder, Full-Scale Tunnel, $67.50; Mrs. Anne R. Robinson, West Sheetmetal Shop, and Model Surfacing & Finishing Shop, $55.00.

Miss Martha Willis, Apprentice Administration Office, $9.00; Mrs. Edith M. Ferrall, East Area Model Shop, Dynamic Model Shop, $39.50, and $12.50; Miss Jeanne Godwin, Engineering Section, $66.00; Miss Katherine F. Kelsey, Atmospheric Wind Tunnel, $100.50; Mrs. Clara Anderson, Instrument Calibration, Blueprint Room, and Photo Lab., $50.00; Miss Helen Ellett, Propeller Research Tun., $37.00.

Miss Ida Young, Editorial Office, Power Plant Installation, Chief Aerodynamics Div. Office and Assistants, $15.00; $14.00, and $22.00; Miss Marjorie Mumford, Chief Technical Service Office, $19.50; Miss Marjorie Barber, Stock, L. W. Purchase, $22.50; $9.00; Miss Dorothy Cole, Instrument Research, $53.50; Miss Katherine E. Thompson, Airflow Research, $95.50; Mrs. Katherine A. Livesay, 8th-High-Speed and 24-Inch Tunnels, $56.50; Mrs. Evelyn Smith, Electrical, $34.00; Mrs. Anna Land, Hydrodynamics Division, $83.10; Mrs. Elizabeth Keetch, Power Plants Division $89.50, and Miss Marjorie T. Gildner, Stability Research, $126.75.

Aircraft Plant (Continued from page 1)

The main assembly building is large enough to house the nation's total annual cotton crop, which in 1942 was 12,000,000 bales. Probably the world's largest door closes one end of the main assembly bay.

As an indication of its immensity, the project absorbed enough structural steel, lighting, paving, and drainage materials to build a city.

It was less than a year ago that bulldozers began rifting red clay from the Georgia hills, but as an example of the speed of construction, workmen walled in a ten-ton truck in the huge basement while the driver was out to lunch.

IGNORANCE IS BLISS: Test Pilot Melvin N. Gough set a plane down on a small southern field several years ago. An attendant watched as Mr. Gough signed the register. "NACA," mused the attendant. "Oh, yeah—that cowling factory up in Virginia."

Lamp Removed From I.C.L.

Without a Loan Slip

R. E. Mixson reports that a lamp was removed from the I.C.L. without a loan slip being filled out. Please notify him if you know of its whereabouts. It is a fluorescent lamp, non-adjustable two-column pedestal, with inventory No. 18500.

HETEROGENEOUS: Personnel of the first NACA included four university professors, an Assistant Treasury Secretary, two representatives each of the War and Navy Departments, and one person each from the Weather Bureau, Bureau of Standards, and Smithsonian Institute.

FLUENTLY FRANK: An applicant for employment at NAL wrote on his questionnaire that he spoke Spanish "unfluently."

GROWING PAINS: NAL, in 1916, had five employees and one building.

SEE THE WORLD: Ensign Charles Freed has left the Stability Tunnel for service in the U.S. Navy.

Part-Time Workers (Continued from page 1)

51 of these boys are assigned to work from 4:00 p.m. to 8:00 p.m. Monday through Friday and from 3:30 p.m. to 11:30 p.m. on Saturday. They have a Civil Service Classification for Under Laboratory Apprentices and are paid at the rate of .55 cents per hour.

These boys are working under the jurisdiction of the Apprentice Administration and are receiving intensive instruction in the fundamentals of machine tool operation from a competent staff of apprentice training personnel, that has been set up exclusively for the training of these high school students. They are working on special projects so designed as to teach the basic machine operations then, as the boys become proficient they will be advanced to more complicated projects.

At the end of the present school term those whose work has warranted it will be given full-time employment at the same Civil Service rate and will receive $1320 per annum plus overtime. Efforts are now being made through the cooperation of Dr. B. H. Van Oot, State Director of Vocational Education, and Officials of the high schools of the Peninsula, to recruit an even larger number of these boys.

When a large enough group has been obtained, the second shift of certain Technical Service Shops will be turned over exclusively to the training of these boys. In this case the boys will then be split up into two groups. The first group will work Monday, Wednesday and Friday from 3:30 p.m. until 11:30 p.m., and the second group will work Tuesday, Thursday, and Saturday the same hours. By doing this these boys will be able to complete their high school term and still be able to greatly aid the war effort.
MR. & MRS. SHARP
RECOVERING FROM
ACCIDENT INJURIES

Edward R. Sharp, Manager of AERL at Cleveland and former LMAL official, and Mrs. Sharp, are recovering from injuries suffered in an automobile accident Friday evening, March 5, while they were returning home from a visit to friends.

Mr. Sharp's car skidded on an icy Cleveland road and struck an iron fence, according to Charles A. Hulcher, Apprentice Administrator, who returned to LMAL last week after a trip to the Cleveland Laboratory.

Were Moving Slowly

Although the car was only traveling at a speed of about 20 miles an hour, since a right angle turn had to be made approximately 100 yards ahead, the impact against the iron fence brought the vehicle to an abrupt stop.

Mrs. Sharp was thrown against the windshield and Mr. Sharp against the steering wheel.

Mrs. Sharp suffered a broken bone in her left arm and several lacerations on her face which required 14 stitches. She also received bruises. Mrs. Sharp last week was convalescing at a Cleveland hospital, but was expected to return to her home within several days.

Mr. Sharp's Ribs Broken

Mr. Sharp was confined to his bed at home where he was recovering last week from a severe cold and cough, which complicated the rapid healing of his ribs, a number of which were broken in the accident.

Although the injuries suffered by Mr. Sharp were reported to be painful, they were not regarded as of a serious nature. He was able to conduct much of his work, despite his confinement to bed.

The accident occurred during an unusual cold spell. The temperature in Cleveland on March 4, the day before the mishap, was 3 above zero.

EMPLOYEES PLAN
VICTORY GARDENS

A number of LMAL employees, who, unlike Old MacDonald, never had a farm, will cultivate Victory Gardens this year. In view of the rationing program, the State Health Department suggests that this will be both a healthful and a money-saving activity.

The Virginia Agricultural Extension Division, of Blacksburg, offers a few elementary lessons to would-be Victory Gardeners:

Locate the small gardens on fertile, well-drained soil convenient to the house.

Prepare the soil by plowing or spading to a ten-inch depth, breaking all clods and eliminating rocks.

Use Fertilizer

Accomplish fertilization with a heavy application of stable manure, if possible, but if garden fertilizer is used, from 100 to 125 pounds per one-quarter acre should be mixed with the soil several days before planting.

Select a good assortment of seed. Make several plantings of corn, beans, cabbage, peas, beets, and the salad crops in order to supply fresh vegetables over a longer period. Cultivate often and shallow enough to keep weeds out.

H. S. Lippincott, County Agent, whose office is in the Citizens' Marine Jefferson bank building in Newport News, may be contacted through telephone No. 71793 if further information is desired.

Further information is available by writing to "Victory Gardens, Washington, D. C.," and requesting booklets published by the Government.

NEXT GREEN COW
DANCE IS MAR. 26

Membership tickets may still be obtained from any of the following:

Administrative Division, Margaret Young; Technical Service, Paul Taylor; Maintenance Section, Elizabeth Saunders; Purchase Office, Florence Small; A.W.T., Kay Kelsey; P.R.T., Walt Bartlett; 8'H.S.T., Axel Mattson; Stability Section, Peg Gildner; 19 P.T. Building, John Garvin; Tank, Anna Land; Hangar, Kitty Puckett; New Shop Building, Bob Johnson; 16' Tunnel, Catherine Richardson; Stability Tunnel, Charlie Donlan; Warehouse Building, Martha Willis; Prop. Shop, Mrs. Woodward; Structures Research, Evan Schuette; F.S.T., Frances L. Winder and West Area Machine Shop Bldg., Leigh Lewis.

LET'S HAVE SOME COPY!!

The Bulletin is interested in the LMAL family. It wants to know about the parties you enjoy together, the boys who are going off to serve Uncle Sam on a new front, weddings, births, sports activities, and other human interest items. Do you have any interesting mail from boys in the Armed Services who formerly served at LMAL? Are there persons in your section with unusual hobbies? If so, give us a tip and we'll see that the information finds its way into the columns of the Bulletin.

Everyone in the Laboratory is a member of the Bulletin staff. We don't have any word rates—all we can offer for your contributions are "thanks", a smile, and a free subscription to the Bulletin. If you have any ideas please communicate with Joe Doyle or Lee Dickinson, in the Administration building, phone 319. Our coming edition will be distributed about April 2. The deadline for contributions will be March 29th.
LMAL APPRENTICE CLASSES START ON MONDAY, TUESDAY

The spring term of apprentice related-study classes is scheduled to begin on the 5th and 6th of April. Although these classes are intended primarily for those formally indentured as apprentices, they are also available to prospective apprentices, women mechanical workers, and all others who may wish to attend them.

Under the NACA Apprenticeship Standards approved by the Federal Committee on Apprenticeship, apprentices are required to obtain 150 hours of related study each year. Inasmuch as many apprentices have already received some of the fundamental subjects necessary to their trade, they are allowed to take special exempting examinations which, if passed, will credit them with these classes and they will be

(Continued on page 4)

HOUSING LEASES AVAILABLE NOW

Lease forms for rental of houses in Cavalier Court, the NACA housing project, are now available to the members of the staff. These forms may be obtained from William Thompson in the Personnel Office.

The first units will be

(Continued on page 5)

BOND RECORD CITED

LMAL DISPLAYS MINUTE MAN FLAG IN RECOGNITION OF LEADERSHIP OVER OTHER LABORATORIES

The NACA has received from the Interdepartmental War Savings Bond Committee an Interdepartmental Committee Honor List Certificate and Minute Man Flag for attaining more than 90 per cent of participation and 10 per cent of gross pay roll invested in War Bonds. In a communication received here from John F. Victory, NACA Secretary, it was pointed out that the "NACA continues to lead all Governmental agencies with the highest percentage of pay roll subscriptions for organizations having over 90 per cent of employee participation."

'Well Earned Trophy'

Since LMAL "has made the best showing of the NACA laboratories," Mr. Victory wrote, "the Minute Man Flag is being forwarded to you for display as a well earned trophy." The banner was received here last week and is on display in the East Area Cafeteria.

NACA was the leader among

(Continued on page 5)

LMAL IS SEEKING NEW EMPLOYEES

LMAL needs a number of new employees. If any members of the Laboratory Staff know of persons who might qualify for the various positions described below, please suggest that they communicate with the Personnel Office:

(1) Stenographers and typists; (2) toolmakers; (3) machinists; (4) computer operators; (5) pattern makers; (6) aircraft sheet metal workers; (7) aircraft mechanics (applicants with automotive experience will be considered); (8) woodworkers; (9) under aircraft model makers; (10) plumbers and pipe fitters; (11) carpenters; (12) laborers and truck drivers; (13) high school students for part-time employment in the Technical Service Shops.
LET'S DISSOLVE THE '40' CLUB
(An Editorial)

There is at LMAL what might be described as a "40" club. We hope, in the interest of victory and freedom for our nation, that it does not grow in numbers. In fact, it is our sincere hope that its members decide soon to change the name to the "Zero" club.

The so-called "40" club is really not an organization at all -- but actually represents the number of LMAL employees who were not participating in the Laboratory's War Savings Bond program, as of the last day of February.

You perhaps have noticed the Minute Man Flag on display in the East Area Cafeteria. It was awarded the NACA, along with an Honor List Certificate, in recognition of the attainment of more than 90 per cent participation and 10 per cent of gross payroll invested. The Washington Office forwarded the flag here since LMAL made the best showing of the NACA laboratories.

We have good reason to be proud of our bond record. But no victory was ever won where a gladiator stopped to rest on his laurels. If at all possible, let's concentrate on making our participation 100 per cent.

RETURN TO THE SOIL
(An Editorial)

In the interest of good health, economy, and patriotism, Victory Gardens should engage the attention of many LMAL employees this year. Viewing the matter from every angle, we must conclude that our obligation to participate in the program is inescapable.

Most important of all, our continued good health is essential to worthwhile war effort. We cannot attack the problems that face us here each day unless we maintain a satisfactory physical condition that is possible only through the enjoyment of wholesome, nutritious foods.

An abundance of fresh vegetables in our diet is necessary. Such food, however, will not be consistently available on the open market this year, and we may as well realize that the shortage will only be made up by resort to such activity as Victory Gardening.

Another aspect of the health phase is that most of us are office workers, a reality which denies us many of the benefits of fresh air and sunshine. It is wise, therefore, to assume an extra-curricular activity which will allow us to commune profitably with the great out-of-doors.

The economic angle is virtually self-explanatory. A shortage of fresh vegetables is bound to push the cost to the consumer way past normal, despite price ceiling regulations; and patriotically speaking, we anticipate that the food shortage will be so acute that it behooves all who can to cultivate Victory Gardens.

CLEVELAND CLIPPINGS

News from AERL indicates that E. Raymond Sharp, Manager, has returned to his office after being confined to his home on account of some broken ribs suffered in an automobile accident early last month in Cleveland. Mrs. Sharp, whose arm was broken in the mishap, is recovering.

First reports show that 317 AERL employees contributed $1,866.80 to the Red Cross campaign, $4.21 per capita. Marvin Scadron, who hails from Illinois Institute of Technology, is the thousandth employee of AERL. Charles Sullivan is teaching golf to a group of AERL girls. Harry Bowles has been put in charge of AERL electricians as Electrical Superintendent. First Lieut. R.G. Parke, Air Corps, has arrived at AERL to assume his duties as Material Command Liaison Officer. He represents the Army at AERL and assists in procurement of equipment and supplies from the Army for research programs.

Work is under way on a 440-unit housing development at Sherwood Park for AERL employees. Alexander Krismanth is aiding Fred Bonnie in directing the symphony orchestra at AERL.

E. Laccohee has been appointed Captain of the male quartet. Jack Olsen, who leads his own band, is composing a song for NACA. Connie Gaube is assistant to Emory Maison in charge of glee club activities. Officers of the glee club include Evelyn Lasch, president; Elizabeth Balint, vice president; Kay Hovanec, secretary, and Pearl Jares, treasurer. Russell Dobrin is assisting with the dance band. In other words, AERL is going in for music in a big way.

WE COUNTED 'EM: Names make news. Last issue the Bulletin contained 106 names.
FIRST COMMITTEE APPOINTED APRIL 2, 1915, BY WILSON; MEMBERS MAPPED LONG-RANGE PROGRAM

Members of the first National Advisory Committee for Aeronautics, who were appointed April 2, 1915, by President Wilson, assembled initially in the Washington Office of War Secretary Garrison on April 28 and began mapping a long-range research program. The Committee moved slowly at first, deciding that gradual development was desirable in view of the expansive problems to be attacked.

Among the pioneer group were Dr. Joseph S. Ames, retired former Chairman who served the Committee two decades; Dr. William Frederick Durand, former Chairman and present Committee member who had gained early attention by his research into propeller design while he was a professor at Leland Stanford, Jr., University, and Dr. Charles D. Walcott, persistent champion of an NACA.

Scrivens First Chairman

Temporary Chairman of the first Committee was Brig. Gen. George P. Scrivens, Chief Signal Officer of the U.S. Army at the time, while Naval Constructor Holden C. Richardson acted as temporary Secretary. Mr. Richardson's clerk was John Francis Victory, then a 23-year-old Georgetown University graduate, who has been Secretary since 1927. The Committee's first voucher, for $26.67, was drawn in payment for clerical services performed by Mr. Victory.

Other charter members and their earlier titles were professors John F. Hayford, of Northwestern, and Michael J. Pupin, of Columbia; Capt. Mark L. Bristol, U.S. Navy; Charles F. Marvin, Weather Bureau Chief; Byron R. Newton, Assistant Treasury Secretary; Lieut. Col. Samuel Reber, U.S. Army, and Dr. S. W. Stratton, Bureau of Standards Director.

Visioned Great Future

With America on the verge of entry into a World War, the representative group began to formulate its plans. Records indicate that the first Committee foresaw a great future for aeronautics, but just how much of the present-day expansion it envisioned is a matter for conjecture. At any rate, there was much room for improvement in aeronautics at the time the NACA began to function.

The vistas that were open to the Committee might be seen in a study of a typical early-day list of requirements for a Navy Department airplane, which stipulated a speed of 50 to 95 miles per hour, with a full load of one man of 160 pounds, two and one-half hours of fuel and oil, a 50-pound radio set, and the usual instruments, and with a wing span of not over twenty-eight feet.

Recognizes Its Duty

Mindful of its duty to "supervise and direct the scientific study of the problems of flight with a view to their practical solution," the Committee undertook immediately to utilize available facilities in an effort to "determine problems which should be experimentally attacked and to discuss their solution and their application to practical problems."

One of the first actions of the Committee was the determining of its problems, which it later listed as stability as determined by mathematical investigations; air speed meters for control and navigation; evolution of more efficient wing sections; development of motors of higher power and lighter construction; development of more efficient propellers, and improvement in the form of the airplane "leading toward natural inherent stability."

Published Seven Reports

The Committee, which published seven reports the first fiscal year, depended heavily on facilities of universities in the early days, but concluded after a survey in the summer of 1915 that their interest was "more one of curiosity than in considering the problem as a true engineering one...." Consequently, the Committee emphasized the need of a Laboratory "for determining the forces acting on full-sized machines in constrained and in free flight."

So, in the $85,000 appropriation for the Committee's second fiscal year, funds were included for "a movable combination field office, machine shop, dynamometer shed, hangar and power plant, including a dynamometer carriage and truck." It was proposed to set up these facilities at Hains Point in Washington, but the Commissioner of Parks objected. Thus, Hains Point, which might have been the scene of the NACA's first Laboratory, became a golf course instead while the Laboratory at Langley Field grew rapidly into the focal point of America's efforts in aeronautical research.
HOLD TYPING & SHORTHAND CLASSES

The Administrative office is sponsoring classes in typing and shorthand for employees who have completed their ground work in either or both and desire to improve themselves. The classes are held Monday, Wednesday, and Friday each week and were started March 29. The purpose of the training is to equip employees for advancement or for more congenial employment.

It is generally true that there is a shortage of good stenographic assistance in normal times and the shortage now is acute. Aside from the present possibilities for advancement, the training provides a means for qualified employees to raise themselves above the average level of proficiency. In the average level there is seldom a shortage of personnel, or much opportunity.

Any employees interested in the training are invited to join the classes. The hours are from 5:30 to 7:30 p.m., one hour being devoted to each subject. Miss Glendora Ellison is instructing the shorthand class. The classes are without cost to the trainee and except for the shorthand manual, no books are required. For information, call the Chief Clerk, phone 313. These are your classes if you have the ground work and are interested, how about it?

A FIRST REPORT: The first report to the NACA by Dr. George W. Lewis, Director of Aeronautical Research, was on poppet valves.

the various machine tools; how to sharpen drills and tool bits; and, sheetmetal theory and layout, involving the proper methods for laying out intricate and complex curves and streamlined forms. A special emphasis is now being placed on the use of handbooks. All apprentices receive some Mechanical Drawing in the apprentice drawing room specially provided for this study. The more advanced apprentices who are serving their trades as Mechanical Draftsmen are engaged in the study of Machine Design and Strength of Materials. These classes have now progressed to the point that they are extremely useful to those apprentices now engaged in the actual design of various Laboratory projects.

All classes are conducted in classrooms set up in the Warehouse Building in the west area. All persons interested in attending these classes should contact S. Walter Hixon, Jr., at the Apprentice Administration, telephone 256.

LOOK TO THE FUTURE: "Seventy-five ton planes have already been built; two-hundred-and-fifty-tonners are predicted after the physicists have conducted the necessary research, and men like Kaiser and Higgins have shown us how they can be built at fairly low cost." (From New York Times Magazine).

CAMARADERIE: The 16-foot tunnel staff enjoyed a party Saturday, March 29, at the American Legion Hall on North King Street in Hampton. The evening's entertainment included dancing and refreshments.

'CHECK' THIS MORAL: Mary had a little check, she signed it upon receipt; but on her way to a Hampton bank, she lost it in the street. Moral: Wait until you reach the bank to endorse your pay check. If you must endorse it beforehand, make it read something like this: "For deposit to the account of and then sign your name.

Need A Stove?

Joe Robbins, Laboratory telephone 200, has for sale a late table model four-burner gas stove, with automatic oven control.
BOND RECORD CITED (Continued from page 1) 

the seven Federal agencies having over 90 per cent participation and more than 10 per cent of the total pay roll invested. The National Mediation Board was second with 111.6 per cent invested; the Federal Reserve Board, 11.4; Food and Drug Administration, 10.9; Treasury Department; and Tariff Commission, 10.5 each, and the National Capital Park and Planning Commission, 10.2.

During January, a Treasury Department report shows, the NACA was allotting for bonds 12 per cent, or $63,343 of its gross monthly pay roll of $527,768. Of 3,101 employees on roll, 3,061, or a percentage of 95.9, were participating in the bond program. The Navy Department is the leader of agencies with less than 90 per cent participation. With a total of 529,570 employees on the pay roll, 88.9 per cent or 474,143 were participating in January. The Navy was allotting 12.7 per cent of its $114,663,612 monthly salary to War Bonds.

LANGLEY LINKS AVAILABLE TO NACA GOLFERS

The Special Service Officer has extended golfing privileges on the Langley Field course to NACA employees.

Membership cards may be obtained from the first to the fifth of each month from Jesse E. Hall, Laboratory telephone 215.

Dues are three dollars per month and must be paid by the fifth of each month or the membership card returned.

LITTLE THEATRE PLAY SUCCESSFUL

The Hampton Little Theatre production "Out of the Frying Pan", presented on the Hampton High School stage on March 29-30, proved to be one of the most outstanding successes in the history of the Little Theatre.

Playing to a large and appreciative audience, the cast of the fast moving comedy, after but four weeks rehearsal, gave a uniformly excellent performance.

COMES THROUGH: NACA won the Collier Trophy for the most outstanding aviation achievement in America in 1930; for its low-drag cowling for air-cooled engines.

DOUBLE FEATURE: Dr. R. E. Street, physicist in the Aerodynamics Division, and Mrs. Street, are receiving congratulations on the birth of twins, a daughter and son, on Wednesday, March 24, at Elizabeth Buxton Hospital in Newport News. Dr. and Mrs. Street make their home at 146 Hanover Avenue.

Housing Leases (Continued from page 1)

ready for occupancy by April 15, a delay of one month due to poor weather conditions retarding construction. John F. Christian, contractor, said last week.

The houses are not equipped with stoves or refrigerators, but Mr. Christian has stated that he will assist tenants in obtaining from the War Production Board certificates of necessity for their purchase. The rental price of the units will be $39.99 per month.

Further information on these houses may be obtained from the Bulletins of December 11 and February 17 or from Mr. Thompson at 226.

WASHINGTON, APRIL 1 -- THE War Production Board yesterday ordered the release of 148,847 electric and gas-operated household refrigerators for sale to consumers who have no type of refrigeration in their homes, either because their equipment has worn out or for other reasons.

The refrigerators will be taken from a stockpile which was frozen February 14, 1942, to provide a reserve to meet demands by government agencies. The release of stocks for civilian use was made possible by recent reductions in estimated requirements for the Army, Navy and other agencies.

A SOCIALE IDEA: Air-Flow Research and Atmospheric Wind Tunnel section employees frolicked at a joint semi-formal dance at the Chamberlin Country Club on Saturday night, March 27. Music was offered by the Dominionaires. The dance was the first of a series of gatherings that Air-Flow Research plans to have in conjunction with other sections.

Telephone No. 360 has been changed from "Cowling and Cooling" to "Engineering Section Office."
BOND DISTRIBUTION EXPEDITED

A new procedure inaugurated in the LMAL war bond section is expected to expedite the distribution of bonds to employees participating in the pay roll deduction plan.

The bond section formerly was required to type a list of LMAL employees as they were entitled to bonds and forward it to the Treasury Department, where the necessary information was typed on and the completed bonds dispatched to LMAL for distribution.

Under the new plan, each LMAL participant is allotted one of a long list of numbers already printed on cards. When it comes time for an employee to receive a bond, his or her number is circled and the card sent to the Treasury Department, which no longer types the information but has on hand a file of plates with which it prints the employee's name, address, and other information as the bonds are due.

This should speed up the receipt by LMAL employees of their bonds, it was pointed out, although certain other factors affect the success or failure of the plan. For example, a late pay roll will automatically cause the bonds to be late. Another reason is that corrections in the bonds must be made on occasions. Employees sometimes find it necessary to make changes in their address, or beneficiary, although changes of address on the bonds are not considered by Treasury Department officials as necessary. Changes that are made must be made personally -- not by phone.

SECTIONS PLAN SOFTBALL LOOP

(By Si Diskin)

Comes spring and warm weather and it's time to think of softball again. Last season, twelve sections organized teams and a league was formed. A successful summer campaign was waged with the championship trophy going to the Structures Research Section.

Let's show that bunch that they can be licked. Organize your section teams, elect your captain, and send your team name and section roster to Len Bartone of the Structures Section. That's all there is to it. Of course, a slight fee shall be required of each team, the amount to be determined later. This fee is required in order to obtain trophies for the winning teams.

To Form Committee

A "Softball Committee" shall be organized for the purpose of formulating rules and regulations of softball, and plans for a successful season. This committee shall be composed of several members to be elected by and from the captains of each participating team. Past experience warns us to remind each section to choose its captain with care; upon him rests the proper functioning of his team and consequently the success of the softball league.

It is also possible that an NACA baseball team may be organized. Those interested in playing baseball please send your names and section to Walter Robbins of the West Area Purchase Section.

Let's start the ball rolling now!

SOME NOT SIGNING THE ATTENDANCE RECORD SHEETS

Since the plan of signing Attendance Records was inaugurated, there have been some employees who occasionally fail to sign in or out, or both, thus causing much inconvenience in compiling the time records.

It has been suggested that supervisors, section heads, or some one delegated by the section head make a more careful daily check to determine who fails to sign and why. In sending Record sheets through the messenger service, they should be placed in a correspondence envelop to prevent their being lost en route to the Personnel Office.

The Attendance Records, not the time sheets, are used as a basis for computing pay rolls. Therefore, if these daily reports are incorrect, it will result in incorrect pay rolls and will also delay the pay checks.

The cooperation of employees in this matter is considered necessary in the interest of the employee and for Laboratory efficiency.

PERCY CRAIN NEW ELECTRICAL HEAD

Percy Crain has been appointed as Acting Head of the LMAL Electrical Department, according to a memorandum issued by Ernest Johnson, Head Mechanical Engineer. The appointment became effective Monday, March 22.

Mr. Crain succeeds Gilbert Strailman, who resigned his affiliation with the Laboratory.

Bulletin Gets Results

A fluorescent desk lamp, listed in the last issue of the Bulletin as having been removed from the I.C.L. without a loan slip being filled out, was located by a Bulletin reader before the ink was dry.
SEVERAL OF THE SECTIONS CHANGE THEIR LOCATIONS

East is East and West is West—but the twain met last week as some LMAL sections had "moving day".

The main Purchase Office was moved from the Technical Service building in the East area to the second floor of the Structures Laboratory building in the West area.

The new telephone numbers are: Warren Gilman, 274; purchase clerks and files, 273; Sherwood Butler, Procurement officer, who moved from the Administration building to the second floor of the Warehouse building in the West area, 269, and the Property Clerk, also on the second floor of the Warehouse building, 252.

Moving into space formerly occupied by Purchase was the Personnel Section, which transferred from the Administration.

(Continued on page 5)

PLAN WOMEN'S DORMITORY WILL HOUSE EMPLOYEES OF LABORATORY BACK OF KECOURTHAN COURT

A quarter million dollar dormitory project to house women employees of LMAL will be constructed back of the Kecoughtan Court apartments in Wythe District of Elizabeth City County. Occupancy of the First of the proposed 372 residential units will take place approximately in mid-summer.

LEASES SIGNED BY 12

Twelve LMAL employees have already signed leases for rental of houses in Cavalier Court, NACA housing project, which is rapidly nearing completion.

Others who wish to obtain lease forms or further information concerning the project may communicate with William Thompson, telephone 377.

Cavalier Court is located adjacent to the Langley Field-Hampton highway and is but a short distance from LMAL. John F. Christian is the contractor.

The project, financed by the Federal Public Housing Authority, will be of temporary construction. Williams, Coile, and Pipino, Newport News architectural firm, is preparing plans. Bids will be sought within a week and construction will likely be inaugurated by the last of this month.

The Kecoughtan Court section was selected as the site of the project because of its convenient location. It is near an already-established shopping center, and is between and in close proximity to the trolley and bus lines.

(Continued on page 5)

APPRENTICE CLUB AWAITS OPENING OF USO CENTER FOR WAR WORKERS

The NACA Apprentice Club, composed of members of the Laboratory staff, at a recent meeting of its membership at the Hampton USO voted to postpone temporarily the rental of a local building for recreational purposes pending the outcome of the negotiations to open an Industrial USO activity for local war workers. Leigh K. Lewis, chairman of the Apprentice Club, explained to the members the proposed USO facility for war workers. He pointed out that negotiations had been under way through H. J. E. Reid, Engineer-in-Charge and J. S. Darlington, Chairman of the local USO and the Symms-Eaton Community Center Association to obtain suitable recreational

(Continued on page 4)

APPRENTICE LIBRARY IS AVAILABLE TO ANY MECHANICAL WORKER

During the past year the Apprentice Administration has carefully selected and obtained a relatively large collection of trade handbooks, text books, and various other recently published copies of works dealing with the various phases of practical shop work. Although these books were obtained

(Continued on page 5)
"War effort" has become a well-worn phrase in American conversation and daily thoughts since the Axis trio raised their ugly heads and inaugurated a campaign of world pollution—or protection as their propagandists would have us believe. We hear much about "War effort" at LMAL, but the exact definition of the two words has apparently never been adequately given.

We are inclined to conclude, however, that their meaning inevitably adds up to the amount and the importance of the energy, inspiration, and cooperation that we as a group offer our Nation in its efforts to abort the fiendish program of the enemy. The most important of these is cooperation, since without it such intangibles as energy and inspiration would be of little avail.

What is cooperation? Let's describe it as "going beyond the line of duty to help the other fellow, who might include superiors, subordinates, or those of other sections who are of equal rank." Cooperation is not an essential to be practiced only by the Service Sections. The Research workers and the Service personnel must cooperate in order that all interests will best be served.

America is embroiled in a war that is far more catastrophic than any in history. Air power is playing a vital role—a fact which makes our part in the conflict an important one. Let us so govern our daily program that there will never be an American air venture which failed because of the lack of something which cooperation at LMAL would have made a reality.

EARLY BIRD: One of the first technical reports published by the NACA was written by Jerome C. Hunsaker. The title: "Experimental Analysis of Inherent Longitudinal Stability for Typical Biplane." Dr. Hunsaker is the present Chairman.

AERO DIARY: In its first two and one half years of existence, the NACA published 23 technical reports.

BONDS Are as Valuable as PEARLS—HARBOR Them
BUILD 600 M.P.H. STRATO TUNNEL

Engineers of the York Ice Machinery Corporation are building at Wright Field a 600-foot wind tunnel to conduct research in the behavior of planes traveling at high speeds in subzero temperature.

Tests will be conducted on engines, scale models of fuselages, wings and other parts of planes, according to aricle in the New York Times.

The speed of the air blast will be 600-miles-per-hour and the temperature of the air will be 67 degrees below zero. Four million cubic feet of air will rush through the tunnel every minute.

A 40,000-horsepower motor whips up the gales. As the wind travels around the first turn of the 0-shaped tunnel it passes over a network of cooling coils, where the temperature is seven degrees below zero. By the time the wind reaches the throat it is minus 67 degrees.

At sea level the air presses against every square inch of us with a force of 14.7 pounds. At 40,000 feet and more the pressure is only 2.7 pounds, because there is less air. To reproduce the conditions in the lower stratosphere, it is evidently necessary to pump out some air. This is done.

The cold gale is produced by two 40-foot fans, each provided with 16 blades. Motor and fan are housed in a separate building. The blades, made of wood for flexibility at low temperatures, each have a 200-ton driving force.

Calcium chloride is the cooling agent and because of the huge amount used it will require about 20 hours to make the tunnel ready for a test. The maximum temperature of minus 67 degrees can be maintained for an hour or so.

AVIATION STUMPED JEFFERSON

Thomas Jefferson, whose 200th birthday anniversary was celebrated last week, boasted success in many fields of endeavor—but he had to admit defeat on the subject of propulsion for aircraft.

Located in the Administrative building is a letter written by Mr. Jefferson from Monticello on April 27, 1822, to Wm. B. D. Lee, in which is discussed briefly the subject of aviation.

The letter follows:

"Your letter of the 15th is received, but Age has long since obliged me to withhold my mind from Speculations of the difficulty of those of your letter. that their are means of artificial buoyancy by which man may be supported in the air, the Balloon has proved, and that means of directing it may be discovered. is against no law of nature and is therefore possible as in the case of Birds. but to do this by macanacal means alone in a medium so rare and unresisting as air must have the aid of some principal not yet generaly known. however I can realy give no oppinion understandingly on the subject and with more good will than Confidenc wish you success."

SWING AND SWAY: One young couple, with doctor's approval, put their new baby on a schedule to fit in with Papa's Swing Shift routine, according to the Douglas Aircraft Company's monthly magazine. Now Junior sleeps when Dad does, and has his meals and bath accordingly.

SERVICE WIVES MEET AT USO

Service men's wives, some of whom are employed at LMAL, are eligible for membership in the Service Wives' Club which meets at 3 p.m. each first and third Tuesday of a month, and at 8 p.m. on the second and fourth Tuesday at the Hampton USO Club on Academy Street.

Service wives at LMAL who are not yet affiliated with the organization are invited to become members. The club programs include lectures on current events, sewing for a military police detachment, knitting for the Red Cross, and partying together once a month with their husbands. Refreshments are served each time.

The Hampton USO is open at all times to service wives, who may visit the center either with their husbands or alone.

BEATING THE BREEZE: First application of an NACA Cowling to a complete plane occurred at Langley Field on Oct. 12, 1928. Its uncowed high speed: 118 mph; cowled: 137 mph.

INTRODUCING NACA NAN & NACA NED

Bringing you messages of SAFETY IN YOUR HOME ON THE STREET AT YOUR JOB. Watch for them in your LMAL Bulletin.
LMAL OFFERS OPPORTUNITY TO STUDENTS

More than 100 local high school students are learning to accomplish all types of work necessary to the vital military aeronautical research work in which LMAL is engaged.

Students interested in this opportunity to serve their country and at the same time receive valuable experience and training are assigned to various laboratory shops where they are immediately engaged in one of the following assignments:

Precise machinist's work, aircraft sheetmetal work, precise model building, or aircraft woodworking. Under the competent instruction and supervision of a group of shop instructors, these students are rapidly obtaining proficiency in the operation of engine lathes, milling machines, drill presses, Do-All saws, planers, slotters, all types of grinders, as well as all types of machinist's hand tools and precision measuring devices.

In the sheetmetal shops they are becoming familiar with the techniques necessary to the intricate forming of special streamlined shapes and double curvature aircraft metal working. They are learning to operate powered rolls, shears, punchers, and brakes, as well as all types of hand tools, measuring devices, and lay out procedures.

In the woodworking and model shops, working under close supervision, they are learning to operate planers, jointers, cut-off saws, Sanders, hand saws, and routers, as well as the skillful use of hand tools and accurate measuring instruments. These boys are learning to work from blueprints and to construct all types of accurate models essential to urgent aero-

USE NEW SYSTEM WHEN EMPLOYEE FORGETS BADGE

LMAL will henceforth issue special yellow badges to employees who have forgotten their regular badges. Whereas formerly an employee who forgot his badge was required to return home for it, he will now be issued a large yellow badge showing his name and section and valid for the one day.

These badges will be issued by the pass officer at the main gate after which the employee will be required to report to the Personnel Office before going to his section.

LILLY RETURNS: Howard Lilly, Flight Research pilot, who spent three weeks at ARL in Cleveland on a temporary transfer has returned to LMAL before being permanently transferred to Cleveland.

The finest shops, machine tools, and equipment are being made available to these students and in certain cases the entire regular second shift is being re-assigned in order to make these shops available exclusively for part-time high school workers.

A number of positions are still open. Employment at this Laboratory offers young students an opportunity not only to receive trade training, but also to obtain a valuable background of work experience and aeronautical knowledge which will greatly assist them in the pursuit of an engineering degree. These employees receive pay at the rate of approximately 70 cents per hour and may work on any of the following schedules:

1. Eight hours a night, every other night alternating each week, making a total of three evenings or twenty-four hours each week.

2. Four hours every night and eight hours on Saturday, making a total of twenty-eight hours each week.

APPRENTICE CLUB

(Continued from page 1)

facilities for the large number of war workers concentrated in this area. Mr. Lewis explained that the operation of such a facility would eliminate the necessity of the local Apprentice Club having to rent a building, since this USO activity, as it is planned, will provide for the general recreation of the apprentices. The Club would be relieved of a large financial burden and will then be free to continue its activities.

According to word received from the Regional USO meeting in Richmond, April 12, the operation of a local Industrial USO facility has been given approval.

Upon final approval at the New York office, the Industrial USO will select a director for this activity and will supply necessary furniture and equipment. The Apprentice Club, meanwhile, is continuing to accept new members and is going ahead with plans for various activities.

Those desiring to become affiliated with the Club are urged to contact any of the following directors: Leigh Lewis, chairman; Jack Kinsler, vice chairman; Joe Dodson, treasurer; Francis Dreisbach, secretary; Bertram Miller, publicity director; Gene Hicks, activity director; Bob Stewart, councilor, or Karl Lambroff, membership director.

The number one plan is considered preferable, since transportation is greatly reduced and students are afforded considerably more spare time.

Those desiring employment need simply report to the NACA pass office at the main Langley Field gate, preferably on Saturday morning. They will be given a short mechanical aptitude test by the U.S. Civil Service Commission and immediately assigned to work.
ADMINISTRATIVE OFFICE CLASSES ARE A SUCCESS

The response of Laboratory employees to the classes in typing and shorthand has been good and the progress of those participating excellent. The perseverance and stamina of participants after their regular hours is really surprising.

In view of the success of with which the classes have opened, employees who may have the necessary groundwork in either or both subjects are again invited to participate. The hours are in the afternoon from 5:30 to 7:30 for persons taking both or from 5:30 to 6:30 for those taking one. Classes are held on Mondays, Wednesdays and Fridays in the Stenographic Office.

SOFTBALL

The current softball season is slowly rounding into shape. Many sections have not yet sent in their team lists. All interested sections should send them in immediately to Len Barton of the structures section.

Soon thereafter, all team captains will be called upon to select from their group three men to form a "Softball Committee." Team competition may possibly begin early in May. It is suggested that sections start practicing now.

SECTIONS CHANGE THEIR LOCATIONS

(Continued from page 1)

The first floor of the Service building will be the Selective Service Section and the office of Dr. William Anthony Aery.

The Electrical Office moved from the second floor of the Structures Laboratory building into space vacated by the Personnel Section in the Administrative building. The phone number remains 219.

APPRENTICE LIBRARY IS AVAILABLE TO ANY MECHANICAL WORKER

(Continued from page 1)

primarily for the use of apprentices, they are also available to any of the Laboratory's staff of mechanical workers or others who may find need for them in their Laboratory work.

These books deal with the latest developments in such subjects as modern aircraft sheetmetal procedures and techniques, precision machine work, instruments, drafting, aircraft maintenance, woodworking and patternmaking, metallurgy, physics, electricity, and radio. Many employees are finding in the use of this Library ways and means of developing and improving their mechanical procedures. Any of these books may be obtained from the Apprentice Library located in the Warehouse Building.

Miss Martha Willis is in charge of this Library and will be happy to assist employees in selecting suitable books for their particular need. A cordial invitation is extended to the entire staff to make use of this facility.

Rooms Needed

A number of LMAL women employees are in need of housing facilities. Anyone having one or more rooms available, or know of such vacancies, may communicate with Miss Mary Jean Prince of the Personnel office, telephone 226.

ONLY EMERGENCY CALLS ACCEPTED

Personal messages cannot be handled over LMAL's telephone system, except where a serious emergency exists. This ruling is necessary, it was pointed out, because the Laboratory has only five outside telephone lines and they must be kept available for use in the conduct of official business.

Any person outside of Langley Field who seeks to communicate with an LMAL employee, must acquaint the operator at the switchboard with the nature of the message. If there is an emergency, the employee will be contacted or the message relayed to him.

CIVIL AIR PATROL

A meeting for the purpose of organizing a Hampton unit of the Civil Air Patrol will be held at 8:00 P.M., April 21, at the Hampton Armory. All pilots with currently valid licenses (private or commercial) are urged to attend.

CAMERA MISSING

Anyone locating a camera, either removed from the Photo Lab or loaned out, please notify Stanley Clason, Photo Lab. Its description: A folding hand camera, picture size 2 1/4 by 3 1/4 in.; 220 Eastman Special, lens No. 2465; shutter No. 5405587; inventory No. 1126.

PLAN DORM

(Continued from page 1)

It is expected to solve a growing problem—that of adequately housing women workers.

In addition to employees of LMAL, the project will house women civilian employees of the Langley Field air base.
BOND STANDINGS CHANGE

The war savings bond status of LMAL see-sawed during March, with some of the figures going up and others taking a slight dip in comparison with the February record.

There were 1,810 employees on the payroll in March, 1,786 or a percentage of 98.674 participating in the payroll deduction plan. This left only 24 non-participants as compared with 40 in February.

The percentage allotted for bonds in March dropped 2.507 percent, principally on account of the method of computing. January and February, percentages were computed from base pay only, while percentages for March and thereafter are computed on base pay plus overtime.

The difference in the figures is shown in a comparison of the base pay total of $287,866.47 for February and the base pay plus overtime of $352,594.22 for March. The amount allotted for bonds in February $38,738.94, which is a 13.457 percentage of the base pay, while the March allotment was $38,609.88, only a 10.950 percentage of the base pay plus overtime.

The average allotment took a slight drop in March, $21.62 as compared with $21.75 in February.

REPORTS 18 GET CARDS FOR USE OF BASE LINKS

Jesse H. Hall, Laboratory telephone 215, reports that 18 LMAL employees have obtained membership cards entitling them to golfing privileges on the Langley Field course.

Other Laboratory linksmen who wish to take advantage of the air base facilities may procure membership cards from Mr. Hall from the first to the fifth of each month.

Dues are three dollars per month and must be paid by the fifth of each month or the membership card returned.

With the advent of warm weather, the golf season at LMAL is expected to get in full swing. Mr. Hall suggested that an NACA golf team might be formed.

REQUESTS SEARCH FOR MISSING ITEMS

Vern G. Rollin, Mechanical Engineer, reports the following items as having been misplaced and requests that the Supercharger Section be notified if any are located:

(a) Costumer, tubular steel, olive green with eight hooks and crossbar, Inventory No. 34, Serial No. 360; (b) costumer, tubular steel, olive green with eight hooks and crossbar, Inventory No. 35, Serial No. 361; (c) Brentwood chair, oak, cane-seated, without arms, Inventory No. 3201; (d) metal, revolving typewriter chair with leather back and seat, Inventory No. 15384; (e) rotary chair, quartered oak, slat back, rotary type, Inventory No. 3061 (was in storage in full-scale tunnel); (f) waste basket, 14 by 14 by 16 inches, green fibre, Inventory No. 4473; (g) drawing board, 20 by 26 inches, sheJI-acked pine or basswood, Inventory No. 4555.
Revise Schedule Of LMAL Busses

Transportation schedules between Laboratory activities have been revised as a result of the gas shortage.

The route to be followed with the regular stops will remain the same. Between 7:10 and 9 a.m. and 2:40 and 4:50 p.m. the bus schedule will remain as heretofore.

Buses operate at 15 and 25 minute intervals between 9 and 11 a.m. and at 20 minute intervals between 11 a.m. and 2:40 p.m.

Approximately 12 minutes are required for the busses to travel from the Administrative Building to the Office and Warehouse Building in the West Area, with an additional minute required for reaching the 16-foot tunnel. From the 16-foot tunnel, 15 minutes are required for arrival at the Administrative Building.

NACA Bond Record Cited As Example to Other Agencies of Government

"The continued excellent example" that the NACA is setting for Federal Employees "in its outstanding work in the operation of the payroll savings plan for the purchase of war savings bonds" has been cited again by the Interdepartmental War Savings Bond Committee in Washington.

Hunsaker Gets Letter

E. F. Bartlett, acting chairman of the Interdepartmental committee, in a letter to Dr Jerome C. Hunsaker, NACA chairman, said:

"I want to congratulate you and your staff on the continued excellent example that the National Advisory Committee for Aeronautics is setting for Federal employees everywhere in its outstanding work in the operation of the payroll savings plan for the purchase of war savings bonds. To no small degree the results your organization has attained are due to the enthusiastic efforts of Mr. John F. Victory, your alternate on this Committee.

On Honor Roll Again

"The March report of the Interdepartmental War Savings Bond Committee will again carry your organization on the Honor Roll. Such consistent (See page 5)

Explain Rules Regarding Pleasure Driving

In order to inform LMAL motorists about certain regulations concerning the ban on pleasure driving, the Bulletin lists the following general rules which may be used as a guide:

Family or personal necessity driving includes (but is not limited to) essential shopping, getting medical attention, attending religious services, funerals, and meetings of groups or organizations essential to the occupation or profession of the person using the vehicle; meeting an emergency involving a threat to life, health or property; or for instruction or training in meeting or preparing to meet such emergencies.

Non-essential trips specifically prohibited by the ban include (but are not limited to) driving to places of amusement, recreation or entertainment, social gatherings, sightseeing, touring and vacation travel, and making social calls.

Report Draft Status Change Immediately

"Every man, regardless of his Civil Service grade, should report promptly to the Selective Service office (telephone 368), Technical Service Building, any change in his draft status," it was announced by Dr. William A. Aery, senior administrative assistant.

"Selective Service Boards fail at times to send LMAL notices of change in the classification of draft eligibles," Dr. Aery pointed out.

Some men have depended upon their friends to convey messages for them to the Selective Service Office and these friends have failed to carry out their promises. Good management rather than good luck," Dr. Aery concluded, "should govern LMAL in its work with the Selective Service system."
The LMAL Bulletin is prepared and published at the Langley Memorial Aeronautical Laboratory of the National Advisory Committee for Aeronautics, Langley Field, Virginia, in the interest of LMAL employees. Contributions of news and art should be sent to the Editor, in the Administration Building. The telephone number is 313.

Editor................................H. Lee Dickinson
Art Editor.............................Ben Vogel
Reporters..............................LMAL Employees

Give Music its Place

"With firm and valiant step, the days of our years march by. They pass in light and shade...a brilliant procession of voices, faces and events that greatly influence our lives.

"Surely a place of honor in this distinguished pageant must be reserved for music. For it is music that so often brings to us a sense of well-being...music that speaks of triumph, courage, and strength...music that entertains and inspires."

The Bulletin is informed that there are hundreds of employees here who have a talent for singing or playing musical instruments, or both. In a story on the opposite page you may read about a proposed musical organization at LMAL. Won't you music lovers please let us hear from you.

Don't Pass Them By

At various hours, by day and by night, staff members who drive automobiles leave Langley Field with vacant seats in their cars. There are many men and women of the NACA and the military establishment who would greatly appreciate a ride into Hampton or beyond, if given half an invitation.

The suggestion is offered that, so far as it is humanly possible, every possible effort should be made to relieve the waiting men and women in the non-riding combination from the burden of traveling on the overcrowded and uncertain buses.

The good-neighbor policy may profitably begin just where a waiting passenger and a vacant seat in an automobile come into focus. Everyone probably can afford to become a bit more conscious of our growing transportation problem and then do something positive to help resolve it.

Help Keep The Laboratory Clean

There are a number of little things which we, as employees of a Laboratory engaged in vital war research, may do to help make successful the nation's effort at "pest" eradication.

One of them, far-fetched as it may sound, is the keeping of the Laboratory premises clean; not only in the interest of cleanliness, one of the cardinal virtues, but because the present manpower shortage prevents the employment of a full janitor force.

Let's be a bit more careful in our daily habits. Keep our desks, and the floor around them free of paper and other trash. Don't toss trash on the floors of the hallways in your buildings, but be a good American and walk to the nearest waste basket.

You'll find that if we all give a little more thought to this problem, the Laboratory which we call "home" for a part of the day will be a better place in which to live.

DEDICATE AERL WITH CEREMONY AT CLEVELAND

AERL at Cleveland was officially dedicated May 20 with a flag-raising ceremony witnessed by 1,200 employees of the Laboratory, members of the NACA, and other notables in the world of aeronautics.

Dr. Jerome C. Hunsaker, NACA Chairman, opened the ceremonies with a brief address, then introduced Dr. Orville Wright after pointing out that the venerable pioneer started aeronautical research with the first successful flight of an airplane 40 years ago.

Reid Attends

Henry J. E. Reid, Engineer-in-Charge of the Langley Laboratory, was present at the ceremonies, and heard the mayor of Cleveland declare that, "Just as America is breaking records in its plane industry, so she will break records in bringing the war to an end ahead of time."

The American flag was presented by the Cleveland Chamber of Commerce through John Francis Victory, NACA secretary, who accepted the colors "as token of the hospitality, good will, and very effective and sincere cooperation of Cleveland."

Sharp Receives Flag

In turning the flag over to Edward R. Sharp, AERL Manager, Mr. Victory described it as "an emblem of all that we hold dear, and what we are fighting for. I bid you cherish it, fly it high, and keep it flying!"

Expressing pride, Mr. Sharp pledged the best efforts of the Laboratory staff in the interests of the war and of American aeronautics. Then, as the assemblage snapped to attention and the stirring strains of the national anthem sounded, the banner was unfurled.
MAY ORGANIZE MUSICAL UNIT
SEEK TALENT AMONG LMAL EMPLOYEES

Through various channels it has come to our attention that there is a great deal of musical talent, both vocal and instrumental, available here at the Laboratory. Consequently, we thought a glee club, or an orchestra, or maybe both, might be forthcoming from behind typewriters, computing machines, and test chamber doors. With such a group, it might be possible to do a bit of experimental work in music—experimenting in arrangements for a glee club alone or combined with an orchestra.

If enough persons are interested, let's try to get something started. E. W. Miller has offered his home for a first meeting of the group. Before setting a date for such a meeting, however, it seems best to find out what other persons at the Laboratory think of the idea.

So, if you have any musical talent and are interested in starting such a group as outlined above, please get in touch with:

Miss Peggy Gildner
Stability Research Office
Telephone 282;

Miss Bernice Richardson
Office of Chief Aerodynamics
Telephone 227.

COOPERATE: Remember the importance of working with, not against, your fellow-worker. You hurt yourself and the war effort by failure to cooperate.

DON'T GET EVEN: If you have some petty grievance against an associate, don't spend your time trying to get even; at that rate it is a certainty that you will never get ahead of him.

GREEN COW HAS FASCINATING HISTORY

The Noble Order of the Green Cow, LMAL social organization, has an interesting history, though much of the information concerning the early days has been lost in antiquity, according to Clyde Lumpkin, of the Administrative Section.

A majority of the Laboratory personnel realizes just what the Green Cow of today represents, but comparatively few are aware of its beginning and the subsequent entertainment and recreational activities sponsored by the organization.

Initiates Employees

Mr. Lumpkin says his earliest recollection dates from about 1923, at which time the Order consisted of little more than a horse play institution. It in turn was nothing more than an initiation, nearly all of the employees of the Laboratory having been initiated one or more times into it.

At the time of Mr. Lumpkin's arrival on the scene, the slightest opportunity and a victim were all that were necessary to produce an initiation into the Green Cow. "Then came the great event of the opening of the present Service Building, early in 1925. In those days," Mr. Lumpkin recalls, "a new building for the Laboratory was something to shout about; and the shouting on this occasion took the form of a dance for the employees."

While the dance was strictly informal, it was one of those occasions that click from start to finish. In fact its success was so outstanding that a general clamor was set up for more. A Committee was formed to figure ways and means of capturing the spirit of the occasion and the Noble Order of the Green Cow, as we know it today, was born." Preserves Name and Spirit

The committee preserved the name and the hilarious spirit of the old order, but amputated the initiations, which were becoming a little too severe for the hide and bones of the Laboratory's more refined members. From that day forward the organization flourished.

Each dance was opened for a time with a promenade by the Green Cow herself. Because of the deep feeling for her, it was decided to create from such materials that were available, a likeness of the Order's beloved patron. While the likeness may not have been flattering, and a pair of engineers can scarcely do justice to the graceful walk of a cow, the deed was done. Due to poor visibility, the hind legs experienced trouble keeping up with the front ones, but the Green Cow lived.

PLAN LAPEL PIN FOR THE NACA

After much consideration of the subject of a lapel pin for NACA personnel, and study of the designs submitted, the standard NACA insignia has been selected. It was announced in a communication from John F. Victory, NACA secretary.

The emblems, to be suitable for wear by both men and women, will have an overall length of about three-quarters of an inch and will be available in silver and in gold at low prices.

Further information concerning the design, quality, and price will be made available as soon as negotiations with the emblem company are completed.
DELINQUENT ACCOUNT
LIST GROWING FAST

A communication from the NACA Exchange Council points out that the delinquent account list is growing—both too large and too fast.

In the future, failure to settle these accounts promptly without a valid reason will result in the denial of further credit to those concerned, it was emphasized by Exchange officials.

SHOW COURTESY TO FLAG DURING RETREAT

With Flag Day to be celebrated by a nation at war on June 14, this is considered an opportune time to instruct employees of the Laboratory in the proper courtesy to show the Stars and Stripes during retreat at Langley Field, which is conducted at 4:45 p.m. each day.

Normally a band is present during retreat at the air base. When this is true, the bugler sounds retreat prior to the playing of "The Star Spangled Banner" by the band. If there is no band present, the bugler plays "To the Colors."

During the sounding of retreat and the playing of "The Star Spangled Banner", and during the interim, and during the playing of "To the Colors" civilians should follow a certain procedure of courtesy to the flag.

Inaugurate Tennis Club Season

The NACA Tennis Club, which maintains three clay courts adjacent to the Fox Hill Road (near Langley Field Road traffic circle), has inaugurated its season's activities.

Officers appointed by the club include Robert S. Swanson president; Viola Ohler, vice president; Hewitt Phillips, secretary; H. Edwards, treasurer, and Jack Golden, Chairman of social activities committee.

Plan Tournaments

Plans are progressing for several tournaments. In addition, a ladder system of player standings is maintained at all times in order that new members may readily locate opponents of equal ability.

The clubhouse is equipped with lockers and showers for the use of the members. Dues, which may be paid in quarterly installments, are $6.50 for men, $3.25 for women, and $9 for married couples. Members may reduce their dues by working on the courts, the pay for which is 50 cents per hour.

Collect Dues

Those authorized to collect dues for the club, in addition to the officers, are S. Katzoff, C. Donlan, Louise Morse, Frances Leigh, A. Kantrowitz, Alice Whitney, Dot Harris and F. Aspen.

According to instructions received from the Base Adjutant, men civilian pedestrians who are wearing hats should, during the time mentioned, take off their hats, hold them over their hearts and face the music. If they are not wearing hats, pedestrians should stand at attention and face the music. If the pedestrian is a woman, she stands at attention and holds her hand over her heart and faces the music. Persons in an automobile or other vehicle should alight and conform to the same instructions.

In connection with his proclamation on Flag Day, President Roosevelt said:

"I direct the officials of the Federal Government, and I request the officials of the State and local governments, to have our colors displayed on all Government buildings on Flag Day, and I urge the people of the United States on that day to fly the American flag from their homes and to arrange, where feasible, for joint displays of the emblems of the freedom-loving nations."

Employees are required to report any change in their home address to the Personnel Section or to the Duplicating Office.

AERONAUTICS: First in war; first in peace.
Life At The Laboratory

An applicant for employment referred to it as the "personality" office; now the Personnel girls are bearing all over. . . . . A new employee, asked if he had any physical defects, answered: "Yes, left handed." John Joseph Burke, one of the Personnel-ity boys, after having sold so many bond subscriptions to LMAL employees, was joined by the "bond" of matrimony June 2 at St. Mary's Star of the Sea Church, Old Point. The bride was Miss Pearl B. Crotzer, of Accomac... E. McKinley Hutton of Personnel, known variously as "Tiny" and "Mr. Five-by-Five" will marry Miss Margaret Paul Vestal of Moravian Falls, N.C., at Chapel Hill on June 14th.

Giving their food ration books a well-earned rest, 56 members and guests of the 19-foot Pressure Tunnel staff commandeered the Hi-Hat Club on a recent night for an informal dinner dance. Ladd Nichols provided the music. Although the affair was planned as an antidote for the excess growth of the Pressure Tunnel social fund, it also served as a farewell party for Jack Burgess on his departure for the Air Corps. . . . . The Air-Flow Research Sections entertained at an oyster roast and beach party at Grand View. Only the casualties were three members of the tunnel crew who indulged in an unexpected bath in the bay.

Mrs. Virgie Firth Loper, of the West Area Dispensary, is sad over the loss of her nurses' class pin, somewhere at the Laboratory. "Lewis Gale Hospital" is engraved around the top of the pin, which is round and slightly larger than a dime. In the center is a white cross. . . . . Mel Gough's new ambition is to have an ice tunnel--flavored with orange. An observer reported that he was seen with seven dips of orange ice at a recent dinner in the cafeteria. . . . . E. J. Shave is playing "Prince Charming." He is looking for the young maiden whose foot fits the shoe which he found after a Green Cow frolic.

David Buchanan Jr., of Stockroom No. 3, has a name for the person who has been letting the air out of his tires: "Rat." Speaking of rodents, the new Stuart Gardens civic group succeeded in eliminating the dumping of garbage at a site overlooking the Newport News development, and now the Army's decontamination squad is going after the rats there. Arthur Samet is the civic group's legal advisor. . . . . Clyde Lumpkin found a snapping turtle in his victory garden and turned it over to Walter Rieser, as a pet and not for soup. . . . . A recipe for creamed chicken, sent by a reader, was judged by the Bulletin household editor as unfit for publication.

The War Activities Club has changed its name to the Avion Club. It inaugurated a program of social activities with a dance last month at the Hampton Armory, with music by Red Overton, plus songs by Dick Gierach. There are approximately 80 young men and women who comprise the club's membership. Plans are under way to open a clubhouse.

Two Yankee hand drills are missing from the Instrument Service section, numbers 12834 and 12835.

Seek Use Of Personal Typewriters At LMAL

The Laboratory is feeling the uncomfortable pinch of the typewriter shortage more each day. The situation has been alleviated somewhat, however, by several employees who have loaned their personal typewriters for use in their sections.

Any employees of the Laboratory who have typewriters which could be made available, are requested to communicate with the Chief Clerk through telephone 313.

NACA BOND RECORD
(From Page 1)

A good performance is deserving of special commendation. You and all of those who are cooperating with you can justly take great pride in the part you have played in this essential war effort."

Mr. Victory, in a communication to LMAL, said: "I know we are all justly proud of the record of the NACA as a whole but the credit is due not so much to any official or employee for pushing the sale of war bonds as it is to the rank and file, who by their generous subscriptions, have made the record in which we all take great pride."

Note on Gasoline

The LMAL Transportation Committee, through C. R. Sayre, chief clerk of the War Price and Rationing Board in Hampton, has received the following message:

"While this very acute shortage is on and there is the urgent need for conservation, your Committee is requested to go over very carefully the applications submitted, especially regarding mileage necessary, so that gasoline can and will be conserved to the utmost..."

The West Area computing section's telephone No. is 339.
KEEP VACATION TRAVEL DOWN

Throughout the spring and summer, more than one-half of all Pullman sleeping cars and nearly one-fourth of all railroad day coaches will be in constant use for organized troop movements, according to an announcement from the Office of Defense Transportation.

Space on regular passenger trains and on intercity buses will be increasingly absorbed by servicemen traveling on furlough or leave and by civilians on war-connected business trips, it was pointed out by the ODT in "asking everyone who can stay off trains and buses to do so."

A warning was given that "the carriers can accommodate vacation travel this year only if it is held to the lowest possible minimum, and then only to the degree that it replaces strictly non-essential travel. The type of travel represented by trips home for the week-end, trips to other cities to visit friends, and other trips for purely social or pleasure purposes are strictly non-essential and should cease."

The usual supplementary railroad services to resort areas will not be operated this summer. Civilians are urged to spend their annual vacations at home or as near home as possible. Those who do go away from home are urged to go to one place and stay there, making the trip to and from on days other than Fridays, Saturdays, or Sundays. Employers have been especially requested to space annual vacations of their employees throughout the year.

The following property is missing from the Maintenance Section: Chairs, bent, steel tubing, olive green, Inv. Nos. 9598, 9599, 13252, 13253, 17598, 17626. All section heads should institute a search among their sections for such property and inform Ray Windler, of Maintenance, if any are located.

IN THE FIRST 11 MONTHS OF WAR THE CASUALTIES OF OUR ARMED FORCES AND CIVILIAN WORKERS, WERE AS FOLLOWS:

ARMED FORCES
KILLED OR WOUNDED- 9,129
MISSING OR PRISONERS- 39,827

CIVILIAN WORKERS
KILLED- 44,500
INJURED- 3,800,000

Safety And Health Drive Begins Here

The Federal Interdepartmental Safety Council has inaugurated a campaign to promote the safety and health of Government office workers. The NACA has been requested to take an active part in the program in the interests of reducing the work potential lost through illness and accidents to office workers.

The initial step in the program is the launching of a safety and health poster campaign to create interest in and an awareness of safety and health hazards on the part of supervisors and employees. A series of 50 posters will be presented, some of which have already been posted in the various Laboratory buildings and offices at LMAL.

The following property is missing from the Maintenance Section: Chairs, bent, steel tubing, olive green, Inv. Nos. 9598, 9599, 13252, 13253, 17598, 17626. All section heads should institute a search among their sections for such property and inform Ray Windler, of Maintenance, if any are located.

The figures listed in this cartoon were announced by Safety Engineering, described as America's pioneer safety magazine. Arthur G. Carruthers, editor, describes it as a "horrible and unnecessary slaughter of American workers upon whom so much depends today!" A suggested slogan: "Alert today—alive tomorrow."
MUSIC MEETING MONDAY NIGHT

To carry out the suggestion made in the last issue of the LMAL Bulletin for a glee club and orchestra, a meeting is to be held on Monday, June 21, at 7:30 p.m. at the USO Club in Hampton. All those who have indicated an interest in such a group, as well as those who have not, but who are interested, are urged to be there and bring others with them.

The response to the last story regarding the possibility of starting an LMAL Musical Unit seems to indicate that there are enough people interested (See Page 2)

AVIONS HOLD DANCE JUNE 18

The tremendous success of the dance recently sponsored by the Avion Apprentice Social Club has prompted the club to sponsor another one which will be held Friday night, June 18 at the Hampton Armory, from 9:00 p.m. to 12 midnight. Music will be furnished by Red Overton and his Orchestra.

Tickets will not be sold at the door, but they may be obtained from various staff members whose names were listed on the memorandum which was issued concerning the dance. Admission will be one dollar for either couples or stags.

LMAL PREPARES FOR WITHHOLDING TAX

URGES FULLER USE OF PRIVATE AUTOS

"The Laboratory has been making good use of the riding club service given by the Administrative Office; but while it is pretty well known what the service consists of, it is doubtful if the employees in general understand the problem attending the service or realize that the success of the plan depends upon the cooperation of LMAL workers," it was announced by Clyde Lumskin, who reiterated a request that employees who are in a position to offer rides communicate with Mrs. Thelma L. Webster, telephone 313.

A recent survey showed that Laboratory employees operate on 20 different work periods, and the personnel on these shifts live at various (See Page 2)

EXEMPTION SLIPS TO BE FILLED OUT

The new Federal withholding tax will be deducted semi-monthly from the earnings of Laboratory employees, effective with the July 1-15 pay roll.

Employee withholding exemption certificates have been distributed. It is important that each employee properly fill in the certificate and return it immediately. Failure to do so will mean that 20 percent of the gross semi-monthly salary will be withheld since no exemption credits can be determined without the certificate.

The amounts of deductions or withholdings will be paid by the NACA to the treasury department and applied as payments on the employee's income (See Page 3)

MILITARY RESERVE STATUS IS POSSIBILITY FOR ESSENTIAL, IRREPLACEABLE NACA MALES

It is possible that certain "essential and irreplaceable NACA male employees of draft age" will be eligible for military reserve status and maintained in their present capacities at the Laboratory, according to a communication received here from John F. Victory, NACA Secretary.

Mr. Victory said that upon the recommendation of the heads of the Army and Navy air organizations, the war and Navy departments now have a joint board working out a plan intended to keep such employees on their jobs.

"It is believed that the plan will involve military reserve status for those employees endorsed by the NACA who may apply for such status," Mr. Victory pointed out, adding that "the latest informal advice is that the special board of the Army and Navy is making progress toward an adequate solution of the problem."
The LMAL Bulletin is prepared and published at the Langley Memorial Aeronautical Laboratory of the National Advisory Committee for Aeronautics, Langley Field, Virginia, in the interest of LMAL employees. Contributions of news and art should be sent to the Editor, in the Administration Building. The telephone number is 381.

Editor..........................H. Lee Dickinson
Art Editor......................Ben Vogel
Reporters........................LMAL Employees

Keep the Bond Flag Waving
A few LMAL employees have indicated that they intend either to reduce the amount which they are allotting each pay period for war savings bonds or to stop entirely their participation in the pay roll savings plan--giving as their reason the new Federal withholding tax.

Such action not only is inconsistent with the Laboratory's all out war effort, but shows an apparent misconception of the tax and what it means. In most instances the tax will be found to be exceptionally reasonable. It is in reality not a new and additional tax but merely a more convenient and efficient method of payment of the tax which will have to be paid anyway.

We are all Americans, and acceptance of responsibility is a tradition of our freedom-loving countrymen which cannot be ignored in times like these. Let's maintain our bond allotments and keep the "Minute Man" flag of honor at the Laboratory.

First in War; First in Peace
Those who believe aviation will play the leading role in post-war transport will glean encouragement from the Wilbur Wright Memorial Lecture delivered recently at the Royal Aeronautical Society in London by Dr. Edward Pearson Warner, member of the NACA and the first Chief Physicist to serve at the Langley Laboratory.

Predicted Dr. Warner: Daily passenger planes across the Atlantic will leave London five times daily, making it to the U.S. in 15 hours flying time. Some 300 passengers a day will fly westbound (with an equal number headed east) in luxury liners capable of carrying up to 57 passengers, plus heavy mail and freight loads.

Dr. Warner, who also is vice-chairman of the Civil Aeronautics Board, believes the fares will be reasonable--about $100 each way; he visions a long-term average of only one fatality per 100 million passenger miles, and he expects the flight schedule to be maintained virtually 100 percent throughout the year.

Confidence!
An American plane swoops low over enemy-occupied territory, drops its bomb load and scoots away with the sturdiness and swiftness of an eagle as the missiles explode on their objective.

Anti-aircraft shells burst around the plane, but the pilot grins in confidence as he points the nose of his craft toward his home field. He knows that American research has helped make Uncle Sam's planes the best in the world.

AERONAUTICS: First in war; first in peace.
### Exemption Slips to Be Filled Out

(From Page 1)

**Issue 9, Vol. 2**

**LMAL Bulletin, June 16, 1943**

**Page 3**

Taxes for the period beginning July 1.

If an employee's marital or dependency status changes after the exemption certificate has been filed, he must file a new certificate within ten days after the time.

#### KEY TO SYMBOLS

- **Married**
  - Claiming no exemptions Symbol M
  - Claiming half exemptions Symbol H
  - Claiming all exemptions Symbol A

- **Single**
  - Not Head of family Symbol S
  - Head of family Symbol F

Numbers after symbols indicate number of dependents.

**FOR EXAMPLE:** N-2 designates Married, claiming no exemptions with two dependents. S-2 designates Single, not head of family, but with two dependents.

**BUY WAR BONDS**

Both tables are figured on, receive each pay period, deduct a semi-monthly basis. To the tax shown below from the determine what you will re-net without withholding tax.

<table>
<thead>
<tr>
<th>Semi-Monthly Gross Wages</th>
<th>Semi-Monthly Withholding Tax</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>S-2</td>
</tr>
<tr>
<td>N-0</td>
<td></td>
</tr>
<tr>
<td>N-1</td>
<td></td>
</tr>
<tr>
<td>H-0</td>
<td></td>
</tr>
<tr>
<td>H-1</td>
<td></td>
</tr>
<tr>
<td>S-0</td>
<td></td>
</tr>
<tr>
<td>S-1</td>
<td></td>
</tr>
<tr>
<td>F-0</td>
<td></td>
</tr>
<tr>
<td>F-1</td>
<td></td>
</tr>
<tr>
<td>F-2</td>
<td></td>
</tr>
<tr>
<td>F-3</td>
<td></td>
</tr>
<tr>
<td>F-4</td>
<td></td>
</tr>
<tr>
<td>F-5</td>
<td></td>
</tr>
<tr>
<td>F-6</td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semi-Monthly Gross Wages</th>
<th>Semi-Monthly Withholding Tax</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>S-2</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Semi-Monthly Gross Wages</th>
<th>Semi-Monthly Withholding Tax</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td>S-2</td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
</tr>
</tbody>
</table>

Both tables are figured on, receive each pay period, deduct a semi-monthly basis. To the tax shown below from the determine what you will re-net without withholding tax.

**BUY WAR BONDS**
AMERICAN LEGION PLANS WAR BOND RALLY

The Langley Laboratory has been requested by officials of Hampton and Buckroe Beach American Legion Posts to participate in the war bond and stamp rally at Darling Park in Hampton on June 22 and 23. Several young women are needed to man stamp and bond booths at the rally, which will include a musical entertainment the first night and a top-flight boxing and wrestling show the next night.

The entertainers will be service men from Langley Field, Fort Monroe and Hampton Institute, many of them boasting professional experience in civilian life. In addition, a number of women performers will be presented by Raymond Shannon, of Fort Monroe. Some members of this group are employees of the NACA.

Admission to the two shows will be by the purchase of stamps or bonds. The rally is part of a drive during June by the lower Peninsula Legion posts who are seeking to sell $300,000 worth of Series E bonds in order that a bomber may be given a name selected locally. H. T. Lawless, commander of the Hampton Roads Post in Hampton, suggests that the NACA may help not only by furnishing a group of volunteer women workers but by encouraging the purchase of stamps and bonds.

PUBLISH EMPLOYMENT BULLETIN HERE

The NACA Employment Bulletin, designed for use in recruiting employees and to help new members of the staff become acclimated to their new surroundings, has been prepared and printed at the Laboratory.

The 12-page, illustrated publication describes some of the facilities and organizations at LMAL and also lists the type positions that are open at the Laboratory. In addition, some description of the Peninsula communities is offered and routes and means of transportation to this section are given.

Any Laboratory employee who has a friend interested in employment at LMAL may have a copy of the paper sent to the interested person by notifying Lee Dickinson, telephone 381.

MAY DISTRIBUTE CHECKS, BONDS FROM RICHMOND

A new plan is being worked out whereby pay checks and bonds will be distributed by the disbursing office of the Treasury Department in Richmond, rather than in Washington as at present, according to T. Melvin Butler, Personnel Officer.

Details of the proposal will be made available in a subsequent issue of the Bulletin. The proposal, however, would assure a speedier distribution of bonds and also eliminate virtually any chance of the pay checks arriving at the Laboratory late.

LMAL PERSONNEL TOTAL EXCEEDS 2,000

The number of employees at the Langley Laboratory has increased considerably during the past four years.

A comparison of 1939 with the present period shows that in April of that year there were 450 employees and the pay roll at that time was estimated at $900,000. At the beginning of June, 1943, the number of employees at the Langley Laboratory totaled 2,163 and the annual pay roll exceeded $4,000,000.

Colleges and Universities from many states of the Union are represented among the new employees. Among the group of new engineers who will report for duty this month, the most widely represented institutions will be Georgia Tech, Indiana Technical Institute, and Tri-State of Indiana. The girls' schools which have the largest representation will be Woman's College of the University of North Carolina, the College of William and Mary, Mary Washington, and Randolph-Macon.

High school students also will be well represented when approximately 100 graduates from the Peninsula high schools take over jobs as typists, stenographers, machinists, sheet-metal smiths and woodworkers.
Life At The Laboratory

While Margaret Young convalesces from a recent operation at Dixie Hospital, her "brood" in the Administration building is missing her and wishing for her speedy return. Her address is 303 Washington Street, Hampton, if you want to cheer her up with a card. John F. Victory, NACA Secretary, made a visit to the Laboratory last week. The heat at the last Green Cow had Leigh Lewis mopping his brow, but he didn't miss a dance. He'll be on hand when the Avions frolic June 18th at the Hampton Armory.

Dorothy M. Luther, of Personnel is a new bride. She was married on June 4 at St. Mary's Star of the Sea Church, Old Point, to William E. McGehee, of Uncle Sam's Navy. Her friends in Personnel, figuring that congratulations were in order for "Dotsie" and "Chuck", decorated a table in the Personnel section with gifts which "Dotsie" received when she returned to work June 8 from her honeymoon. Personnel has hit the jackpot three times this month: Joe Burke bowed out of bachelors on June 2 and "Tiny" Hutton went down to Chapel Hill on June 14.

Joe Doyle, first editor of the Bulletin who nursed the paper along during the beginning when the going was toughest is about to say "Ship Ahoy, Maties". His commission as an Ensign has come through and he plans to leave the Laboratory July 20....Friends of Peggy Darney are glad to welcome her back after a long absence.....Charlotte Young's third finger, left hand is a beacon in a dim-out. She's wearing an engagement ring received from James B. Delano of the 8-foot High Speed Tunnel.

A duplicate bridge tournament has been suggested by a reader. We'll try to arrange one if enough persons at the Laboratory show an interest. The process the Bulletin goes through before being ready for distribution makes an interesting story and we plan to present it to you in the near future. Two other visitors from the Washington Office, Ralph E. Ulmer and W. R. Cooksey, were greeting old friends here last week. Members of the staffs of Air-Flow Research, and AWT and Stability Tunnel frolicked at a dance Saturday night at the Chamberlin Country Club.

Another visitor to the Laboratory last week was Dr. George W. Lewis, Director of Aeronautical Research. William Thompson, formerly of Personnel, and now a merchant mariner, is on liberty after completing a training cruise in New York. His buddies, the knights of Kecoughtan Court, welcomed him with a big blow-out. P. S.: Mary Jean Prince is on liberty from LMAL while Bill is in port.....Ernest Johnson is sporting one of the new NACA pins, a gift from Mr. Victory. Sunday is the one day in the year when the old adage, "it's poppa who pays", shouldn't hold true!

Transportation Group Meets Regularly

The transportation committee of the Laboratory has decided to conduct its meetings at regular intervals. Sessions will be held a 3 p.m. each Monday, Wednesday, and Friday in the office of Dr. William A. Aery. Employees who submit applications for consideration may appear before the committee at the time mentioned, if there is any unusual matter concerning the application which should be explained.

MAINTENANCE SENDS "SMOKES" OVERSEAS

A group of American Service men somewhere on a far-away battle front has a plentiful supply of cigarettes -- thanks to the generosity of employees of the Maintenance Section who contributed fifty dollars for two cases (100 cartons) of a popular brand.

The cigarettes cost twenty-five dollars a case. Any other section desiring to send one or more cases overseas may make the necessary contributions and the order will be handled by Walter Reiser. Orders for less than one case will not be handled.

OFFERING ADDITIONAL MAINTENANCE SERVICE

An additional maintenance service has been established by stationing a telephone operator and dispatcher in the inspector's office, across the road from the Warehouse in the West Area.

All trucks will stop at this point before returning from the West Area and messages can be given to drivers and maintenance men through this office.

Laboratory personnel are urged to make full use of this service to expedite work, and help alleviate the labor and gasoline shortage. Communication will be through the construction inspector's phone, No. 312. This service will be available from 8:30 A.M. to 5:00 P.M.

COST AND BUDGET OFFICES HERE MOVE

The Cost Office has been moved from the Administration Building in the East Area to Room 203 of the Warehouse in the West Area.

Moving into the space formerly occupied by the Cost Office was the Budget Office, transferred from its former location in the Administration Building.
ROOMS TO HOUSE NEW EMPLOYEES NEEDED AT ONCE

There is an urgent need for rooms to house new employees of the Laboratory, it was announced by E. McKinley Hutton, Personnel Clerk in charge of housing.

A large influx of new workers is occurring now, Mr. Hutton said, pointing out that a large number of them are women. He emphasized that the present supply of rooms is virtually exhausted.

The biggest job has been finding rooms for girls and for modelmakers. However, approximately 70 new employees were accommodated during the past two weeks, ten of them being housed in Copeland Park, three in Cavalier Court and the remainder in private homes.

Anyone who knows of a room vacancy should communicate with Mr. Hutton at 226, giving full particulars.

BULLETIN OFFICE MOVES; PHONE 381

Headquarters of the Bulletin has been moved to the first floor of the Administration Building. The new telephone number is 381.

The next issue will be distributed June 26 and the deadline for submitting contributions for that issue will be June 22.

If you know of any interesting items concerning Laboratory personnel, the Bulletin would be glad to receive them. Contributions of news and art, especially cartoons, are always welcome.

M. J. Bamber reports that the following articles have disappeared from the Stability tunnel: one caliper, inventory No. 16085; one open-end wrench inventory No. 15582 (manufacturer's No. 1027c, size 9-16 and 19-32).

LMAL PARTICIPATION IN PAY ROLL SAVINGS PLAN SHOWS DROP

The percentage of LMAL employees participating in the pay roll savings bond program, like "Ole 97," was going down grade, according to the May report, while the percentage allotted from the gross pay roll rose slightly.

There were 2,057 employees participating as of June 1, a 96.75 percentage of the 2,126 on roll. This represented a drop of one and one-half per cent under April's figures.

A total of 11.46 per cent of the gross pay roll, a slight increased over April, was noted. Employees pledged $45,672.93 of the $398,345.40 gross monthly pay roll to bonds.

The average allotment was $22.20 as compared to $21.91 in April.

BONDS BUY BOMBERS

SAVE YOUR EYES FOR YOUR JOB

S7. GOGGLES
S7-2. Employees shall wear suitable safety goggles provided by the Committee when eyes are liable to injury by dust or flying chips.

- LMAL EMPLOYEE SAFETY RULES
**Musical Group Meets Tuesday**

The suggestion for forming a music group has turned out to be more than just another good idea, as anyone who attended the meeting on Monday night at the USO will tell you.

With about 25 people present, there was quite a discussion of how to organize and what might be done with the results of our labors. It was decided that two separate groups should be formed—an orchestra and a glee club, which would meet at separate times, though on the same night. To head these two groups there is to be elected two chairmen, besides the directors for each group. (See Page 2)

**HELLO, CLEVELAND!**

It's goodbye LMAL, hello Cleveland for the Supercharger Section.

The last group is departing for AERL now, and within a few days Oscar Schey and his staff will be greeting new friends in Ohio.

**“BRAIN BUSTERS” NAME OF MODEL CLUB; CONTEST JUNE 27**

The recently-formed model airplane club met Sunday night, June 20. Dick "T. T." Sladek was named treasurer, the other officers being Frank Parmenter, president; Carl Cecil, contest director; and Charles Folk, secretary.

The problem of a name for the club brought up a rather heated discussion, but it was finally decided to call the group of model builders "Brain Busters".

Carl Cecil announced a gas model contest for Sunday, June 27. There will be prizes for all three classes, A, B, and C and the A.M.A. rules will be adhered to with a few changes being incorporated. The maximum motor run is to be limited to 10 seconds. Six flights in each class will be allowed, the total time of the highest three flights to determine the winner.

The "Brain Busters" meet semi-monthly at the new U.S.O. at 108 N. King Street in Hampton. The next meeting will be Sunday, July 4, at 8:30 p.m., and will feature movies of the '42 hydro contest of Portsmouth. Everyone interested in any phase of model airplane building is cordially invited to attend the next meeting and become a member.

**AWARD CONTRACT FOR ALTERING ENGINE LAB**

A contract in the amount of $64,375 for making alterations to the Engine Laboratory was awarded June 18 to the C. W. Lockwood Company. The contractor has been authorized to proceed with the work immediately and completion is estimated to require 120 days.

Ray W. Hooker, representative of the contracting officer, said that the existing Engine Laboratory Building is to be altered to provide additional laboratory space for LMAL personnel. Present plans contemplate locating the Photographic, Blueprint, Electrical, Construction, Maintenance, and Sound Laboratory personnel in this building when it is completed.

A reinforced concrete floor will be constructed in what is now the open part of the Engine Lab. The first floor will be semi-finished. The second floor will be completely finished with plastered cinder block partitions and an acoustical ceiling throughout. A battery of 12 darkrooms will be located in the center of the area assigned to the Photographic, Blueprint Section. All darkrooms will be air-conditioned with refrigeration being furnished by a 40-ton chilled water refrigerating unit located on the first floor.

**“COLLEGE LIFE”**

A collegiate atmosphere will pervade the area around Kecoughtan Court by early fall when the 368-unit women's dormitory housing project will be completed.

The contract for $250,000 has been awarded to the Goode Construction Corporation of Charlotte. Work will begin immediately on the buildings, which will house LMAL women employees.

The dormitory buildings will be two stories, with single and double rooms. The FPFA is financing the project. Recreational facilities, such as tennis courts, will be provided.
Life at the Laboratory

Love has found a way and it's wedding bells for several Laboratory Lovers: Don Todd, to be transferred to Cleveland with the Power Plant Section, will take a new bride, the former Miss Betty Sweet, of Michigan.... Saturday, June 26, is the big day for Donald Baals, 8-foot High-Speed Tunnel, and Miss Madelyne Withers, of Suffolk.... Another Power Plant transference, Irving Johnson, and Miss Jessie Hobbs, of Greensboro College, are slated for an early fall wedding.... John E. Duberg, Structures Lab, and Miss Mary Louise Andrews, an Illinois maiden were wed June 11 in Champagne, Illinois.... Levi Tyndall, Construction Department, married Miss Harriet Wall, June 16 in Hampton.... Miss Mary Jean Prince, Personnel, and William Thompson, ex-Personnel and now a Merchant Mariner, are making plans for a wedding in September.... Wedding bells rang in Hampton June 12 for Harry V. Gardner, Stock Section, and the former Miss Josephine Haves, of Washington, D. C.

By special delivery, "heir mail," Cecil Burtner, Model Finishing Shop, and Mrs. Burtner have a 7 pound 4½ ounce junior, Born on May 24.... J. Norwood Evans, Personnel, is vacationing in Rockland, Maine. According to his own joking confession, he'll do some "sunning and sinning".... A stranger in Norfolk walked up to Joe Doyle and offered him $20 spot cash for his sky-blue suit. "If I had taken along an extra pair of pants, it would have been a closed deal," says Joe.... Another June 26 wedding: Francis S. Wolak, Pattern shop, and Miss Mildred Terry, of Hampton, at 9 a.m. at St. Mary's Star of the Sea Catholic Church, Old Point; then a honeymoon on the Eastern Shore.... Miss Elsie M. Moore, Stenographic, is a new bride.

John W. Draper, Free-Flight, bought a 22-foot sailboat, Mana Koora, and has it trimmed and ready for action.... W. J. Bamber feted his Stability Tunnel staff at a picnic June 20 at his home on the Boulevard.... Ward Mathews, Free-Flight Tunnel, is off to become an aviation cadet.... Miss Peggy Gildner is leaving the Stability Office soon to marry Donald Coale of the Army Air Corps in California, the middle of July.... Free-Flighter Jack Golden expects to leave July 1 on a transfer to Moffet Field.

According to all reports, the Avion Club dance was a big success. The Apprentices and their friends were out in full force and despite the heat, the Hampton Armory was a lively place.... Edwin P. Hartman, of the NACA Western Coordination office in Santa Monica, Calif., has requested that his office be placed on the Bulletin mailing list. Although, as he says, Santa Monica "is about as far from Langley Field.... as it is possible to get and stay within the continental confines of the United States," we hope the Bulletin will help in some small way to bridge the distance.

Visiting the Laboratory this week were Air Vice Marshal E. W. Stedman and his aide, of the Royal Canadian Air Force, and J. B. Parkin, of the National Research Council, Canada.

Musical Group

(From Page 1)

No elections were held at this first meeting because it was felt that a greater number of people will become connected with the group and it will take two or three meetings before everyone becomes well acquainted with the capabilities of individuals to elect them to the responsible positions. Once organized, programs may be presented at USO clubs, army camps and perhaps even radio programs.

Since this first meeting was merely a discussion meeting ending up with a bit of informal singing, it was decided to hold another meeting on Tuesday, June 29, in the Music Room of the Hampton USO Club. There will be two meetings scheduled - the choral group will meet at 7:30 and the orchestra, with instruments, will meet at 8:30. It is hoped that a greater number of people will turn up ready to try a bit of music.

Several in that group have had experience directing, two can arrange, and there are many good voices and instrumentalists. We now need a greater number of people to make a real "go" of this, so come out and have some fun.

BOOKS MISSING: The following books are reported missing from the Apprentice Administration library:

- Strength of Materials (1940) Timoshenko 620.11 T48
- Aircraft Instruments (1941) George Irvin 620.7 Ir8
- Aircraft Instruments (1941) O. E. Patton 620.7 P27

If these books are in your possession, please notify Martha Willis on phone 256.

CORRECTION: In the semi-monthly withholding tax table published June 16 in the Bulletin, there was one error. In the sixth column of tax figures, the H-1 should have been H-3.
HOLD TENNIS TOURNAMENT JUNE 27

An informal tournament, intended to stimulate competition among the newer members of the NACA Tennis Club, has been announced by Bob Swanson, club president. The tournament will be held on Sunday June 27, starting at 1:00. In order that the winner may be decided on the same day, opponents will be selected to face each other in matches consisting of a single set. Cans of tennis balls will be awarded as prizes to the winners of the event.

The tournament will also be used to determine the initial standings of the players in a ladder system that forms the basis of keen competition throughout the season. A player in the ladder system of standings may challenge any one of the three men directly above him. If he wins the match, his name is advanced to a position above that of his opponent. A player in the first five places must challenge only the man directly above him in the ladder.

The NACA tennis courts are located on Fox Hill Road a few hundred feet from the traffic circle on Langley Field Road. They may be reached by taking the Langley Field bus from Hampton.

COMPUTERS ATTEND PHYSICS CLASSES

In view of the manpower shortage and the possible drafting of essential male employees, the Laboratory is now offering a course in pre-engineering physics to women computers.

Dr. Calvin N. Warfield, senior Physicist, stated that the purpose of this course is to train the computers so that they may be more valuable to the Laboratory and to furnish a background for engineering courses to follow. It is also hoped that the trainees will be able to take over some of the work done by junior engineers in order that they may assume more responsibility.

The course will consist of a two-hour lecture period each week, a two-hour laboratory session, and approximately four hours of outside work.

The Laboratories will be divided into four sections according to training. Arthur Kantrowitz will be head of Section 1; A. I. Neihouse, Section 2; Donald D. Baals, Section 3; and Dr. Robert E. Street, Section 4.

All four sections will meet collectively from 4:00 to 5:00 p.m. on Tuesdays and Fridays for Lectures by Dr. Samuel R. Batdorf.

LIST NEW P.J.O.

A new permanent job order, P.J.O. 9 for Personnel Related Training, has been set up, it was announced by H. Arthur Samet.

The new order is to be used in charging labor and materials for the training and instruction of employees in studies relating to their work, such as basic courses in physics and mathematics designed to improve efficiency of computers.

No charge shall be made against the P.J.O. without the approval of the Administrative Officer.

OUR NEW SLOGAN: Fifteen percent each pay day in war savings bonds.

AERL's baseball team will play once each week, until September 15, at Elks Field against Lakewood's Class A teams. John Shoop and Jack Johnston are manager and coach.

RIDE SPECIAL BUS AND HELP KEEP IT IN SERVICE OF NACA

The Virginia Public Service Company has been running a special bus to Langley Field for NACA employees and a suggestion has been made that this fact be called to the attention of the new employees as well as to inform the older employees that the bus is running on a more regular schedule.

Those who are dependent on the bus, and those who are interested in riding it, are urged to make use of the service. There has been some discussion of discontinuing the special service, but the utility firm has indicated that it will be continued if there is sufficient patronage. The bus leaves Claremont and First Streets on the Boulevard at 7:45 a.m. and follows the Boulevard route to LeSalle and Victoria Avenues; thence it follows the trolley line to Court Street in, Hampton (the corner where St. John's Church is located). In the afternoon it leaves the 10-foot Pressure tunnel at 5:10.

On its return trip from Langley, the Special bus stops directly in front of the Administration Building, rather than on either corner of the block.

The special makes fewer stops than other Langley Field buses, and also saves transferring.
FOUR TEAMS UNBEATEN IN SOFTBALL LOOP

(By Si Dzskin)

The NACA softball season is still fairly young, but already there are signs of a very close race developing for the championship of the NACA for '43.

At present, four teams are undefeated with Full Scale Tunnel leading the pack with five wins and no defeats; the other undefeated teams are Stability Research, 8-foot High Speed Tunnel, and Structures Research.

Weekly prizes awarded to the best offensive and defensive teams help to maintain a standard of competition. Grand prizes will be awarded at the end of the season to the two teams with the best won-lost record and to the winner of the post-season playoff amongst the first four teams.

For the benefit of all fans, games are scheduled every Tuesday, Thursday and Friday at Hampton High School. The standings of the teams are as follows:

<table>
<thead>
<tr>
<th></th>
<th>Won</th>
<th>Lost</th>
<th>Pct.</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Full Scale Tunnel</td>
<td>5</td>
<td>0</td>
<td>1.000</td>
</tr>
<tr>
<td>2. Stability Research</td>
<td>4</td>
<td>0</td>
<td>1.000</td>
</tr>
<tr>
<td>3. 8' High Speed Tunnel</td>
<td>4</td>
<td>0</td>
<td>1.000</td>
</tr>
<tr>
<td>4. Structures Research</td>
<td>3</td>
<td>0</td>
<td>1.000</td>
</tr>
<tr>
<td>5. W.A.S.M.S.</td>
<td>4</td>
<td>1</td>
<td>.800</td>
</tr>
<tr>
<td>6. 16-Foot High Speed Tunnel</td>
<td>2</td>
<td>3</td>
<td>.400</td>
</tr>
<tr>
<td>7. Tank No. 1</td>
<td>1</td>
<td>3</td>
<td>.250</td>
</tr>
<tr>
<td>8. W.A.M.S.</td>
<td>1</td>
<td>3</td>
<td>.250</td>
</tr>
<tr>
<td>9. P.R.T.</td>
<td>1</td>
<td>3</td>
<td>.250</td>
</tr>
<tr>
<td>10. Erection Shop</td>
<td>1</td>
<td>3</td>
<td>.250</td>
</tr>
<tr>
<td>11. A.F.R.</td>
<td>1</td>
<td>4</td>
<td>.200</td>
</tr>
<tr>
<td>12. F.R.M.</td>
<td>1</td>
<td>4</td>
<td>.200</td>
</tr>
<tr>
<td>13. 19-Foot Pressure Tunnel</td>
<td>0</td>
<td>4</td>
<td>.000</td>
</tr>
</tbody>
</table>

CLEVELAND CLIPPINGS

After weeks of low-hanging clouds, rain and otherwise uncomfortable weather, a shining sun has started the mercury soaring in Cleveland. Coats and stockings have gone in summer storage.

AERLites cavorted at an Ad Building-Hangar Carnival June 12; and at a recent NicNACA dance the caller, in a moment of exasperation, cried: "How the deuce can you build engines if you can't even follow directions for a square?"

Sporting activities at Cleveland have reached the blacksmith stage. Not satisfied with softball, rifle shooting and tennis, the Ohioans have gone in for horseshoe pitching.

And a Clevelander licks Hitler with this poetic effort: "Jack was thrifty, Jack was smart, bought war stamps and got his start; traded for a bond and then, started in on stamps again."

“WHAT THE WELL DRESSED------”

S9. CLOTHING

S9-a. Shop employees shall wear appropriate clothing, when working at or near moving machinery. Female employees shall wear slacks and blouse with short cuffless sleeves. Sweaters shall not be worn. Long hair shall be confined by means of a cap or head scarf.

LMAL Employee Safety Rules
INVEST 15 PER CENT EVERY PAY DAY IN BONDS

INAUGURATE SAVINGS CAMPAIGN AT LAB

The Langley Laboratory is inaugurating an all-out offensive in an effort to reach its new war savings bond goal—15 per cent every pay day. This means that where LMAL employees have been investing more than $45,000 in bonds each month, they are being asked to increase their allotments to total approximately $60,000 monthly.

There are hundreds of LMAL employees who could save more, and this story attempts to explain what a good investment bonds are.

If held to maturity, war bonds give an interest return of 2.0 per cent per year compounded semi-annually. So bonds not only buy bullets, bombers and other implements of war, they also assure security for an uncertain time ahead.

The Bulletin queried officials of the 12 Peninsula banks and here's what was found concerning their interest rate on savings accounts as compared with war bonds: All compounded interest semi-annually. Five offered one per cent on the first $1,000, and half of one per cent for all in excess of $1,000; four offered one per cent on all savings, and one of the four is not taking accounts in excess of $1,000; and others vary their rates: one offering 1½ per cent on the first $1,000 and one per cent for all over that amount, and one allows two per cent on the first $1,000 and one per cent for all in excess.

There are two tables of figures on this page. One indicates how much a 15 per cent bond allotment would be in several wage brackets and the other describes the number of deductions necessary before certain bond denominations become due.

<table>
<thead>
<tr>
<th>Basic Yearly Salary</th>
<th>Gross Monthly Salary</th>
<th>15% Semi-Monthly Allotment</th>
<th>Amount of semi-monthly allotment</th>
<th>Denominations of bonds purchased at various semi-monthly salary deductions</th>
</tr>
</thead>
<tbody>
<tr>
<td>$700</td>
<td>720</td>
<td>37.50</td>
<td>$3.75</td>
<td>$25.00</td>
</tr>
<tr>
<td>$1,000</td>
<td>1200</td>
<td>62.50</td>
<td>5.00</td>
<td>50.00</td>
</tr>
<tr>
<td>$1,500</td>
<td>1500</td>
<td>76.00</td>
<td>6.25</td>
<td>100.00</td>
</tr>
<tr>
<td>$2,000</td>
<td>2000</td>
<td>101.38</td>
<td>7.50</td>
<td>1 *7</td>
</tr>
<tr>
<td>$2,500</td>
<td>2500</td>
<td>126.41</td>
<td>8.75</td>
<td>2 *2</td>
</tr>
<tr>
<td>$3,000</td>
<td>3000</td>
<td>151.52</td>
<td>10.00</td>
<td>3 *3</td>
</tr>
<tr>
<td>$3,500</td>
<td>3500</td>
<td>176.63</td>
<td>12.50</td>
<td>4 *4</td>
</tr>
<tr>
<td>$4,000</td>
<td>4000</td>
<td>201.74</td>
<td>15.00</td>
<td>5 *5</td>
</tr>
<tr>
<td>$4,500</td>
<td>4500</td>
<td>226.85</td>
<td>18.75</td>
<td>6 *6</td>
</tr>
<tr>
<td>$5,000</td>
<td>5000</td>
<td>251.96</td>
<td>22.50</td>
<td>7 *7</td>
</tr>
<tr>
<td>$5,500</td>
<td>5500</td>
<td>277.07</td>
<td>26.25</td>
<td>8 *8</td>
</tr>
<tr>
<td>$6,000</td>
<td>6000</td>
<td>302.18</td>
<td>30.00</td>
<td>9 *9</td>
</tr>
<tr>
<td>$6,500</td>
<td>6500</td>
<td>327.29</td>
<td>33.75</td>
<td>10 **10</td>
</tr>
<tr>
<td>$7,000</td>
<td>7000</td>
<td>352.40</td>
<td>37.50</td>
<td>11 **11</td>
</tr>
</tbody>
</table>

**Bonds may be issued and delivered as paid for.
* Bonds may be issued and delivered as paid for or dated back to the first of the month in which the average pay period falls.

Distributing Pamphlet

A Government pamphlet entitled, "Figure It Out for Yourself," is being distributed to LMAL employees. It is a simple guide to help you figure your living expenses in order to determine how much you can reasonably allot for war bonds.

On the inside back cover of the pamphlet is a payroll authorization form. It is suggested that Laboratory employees who wish to increase their semi-monthly allotments for bonds fill in the form and send it to the LMAL bond clerk.

Our new slogan is: "Fifteen per cent each pay day." A table appears on this page which will indicate the figure considered as 15 per cent of gross semi-monthly pay in several wage brackets.
FOUR-LEAF CLOVER FARM BRINGS LUCK AND FORTUNE TO DANIELS FAMILY

(By Ruth Angel)

Charles Daniels, Naval Architect, now located at the Tank, claims that four-leaf clovers are worth more than their weight in gold; and he proves it by citing his family's clover farm which has grown from a hobby to become a thriving $30,000 a year business.

Charles, who lives at 58 Cherokee Road and who has been married only six months, is the son of Charles Thomas Daniels, whose 150 by 300-foot clover farm in Balboa Heights, Panama Canal Zone, is the only one in the world operated on a commercial basis.

The Daniels began living in clover back in 1929 when the florist business flopped, along with a number of other industries. Mr. Daniels, a horticulturist, began experimenting with wild clover plants which he had brought from Costa Rico. There were many setbacks at first. Diseases and insects of the tropics almost played havoc with the fragile clover leaves before they were conquered.

The venture started out as just a hobby. Then Charles' mother stepped innocently into the picture. She began pressing four-leaf clovers onto greeting cards which she sent to her friends. She also made a good luck card for Admiral Richard Byrd to carry with him on a polar expedition. The compliments Mrs. Daniels received prompted Mr. Daniels, Sr., to investigate the commercial possibilities of the clovers. He found novelty companies interested, and thus began one of the most exclusive and unusual businesses in the world.

Charles says the clovers are sold for slightly less than a cent each. He once conducted an experiment, out of curiosity, and discovered that they are actually worth more than their weight in gold.

The clovers, which are pressed on a warm stove to evaporate the water so that the leaves will not fade or wither, are placed in pressing tablets and shipped to England and the United States to be used in novelty jewelry and on greeting cards. The charm of the clover has worked so far because up to the present time no shipment has been lost and most of them are being transported by airplane.

Mr. Daniels, who visited his son here recently, said that the shipping record has jumped from 50,000 to 70,000 clovers a week and that the war has brought about this great increase because clovers are now being mounted into non-essential plastics as good luck charms and identification tags for the service men.

Mr. Daniels, who is also wire chief on the Pacific side of the Isthmus, is quite an experimenter. Anywhere on the Daniels' farm fruit trees may be seen bearing several species of fruit on the same branch and two kinds of bushes may be seen growing out of one.
LANKES WORKING IN REPRODUCTION

J. J. Lankes, well known artist of Hilton Village, began employment at LMAL Thursday in the Reproduction Section, where he will instruct a group of college graduates to prepare figures for use in technical reports.

Mr. Lankes, whose woodcuts are recognized as outstanding in that art field, boasts more than 20 years of experience in drafting and designing, including the making of patent office drawings for various inventions. In addition, he taught art for a time at Wells College in New York State, and has lectured extensively at colleges throughout the United States.

Several years ago Mr. Lankes was a draftsman in a Buffalo, N. Y., plant in which Lieutenant General Knudsen at the time was a stock clerk. Mr. Lankes' background in drafting and his ability for executing line drawings, plus his experience as a lecturer (See page 6)

LMAL BEGINS NEW WORK HOURS

LMAL will go on a new schedule of work hours beginning Monday, according to a plan designed to remedy transportation difficulties and to stabilize traffic peaks occurring at the main entrance to Langley Field during morning and afternoon intervals.

Where there had been six starting times for employees during the morning, ranging from 5 to 8:30 o'clock, the new plan designates 7 a.m. as the starting time for persons working on shifts and 8:15 for those not employed on a shift basis.

The new program is expected to facilitate car pooling among Laboratory personnel - a move which has become increasingly necessary with the existing gasoline shortage. More potential passengers will be accommodated, it is believed, with the elimination of four starting times.

The new schedule will also permit the proper scheduling of training classes, and permit better cooperation between research and service sections.

The following standard hours have been established: 8:15 a.m. to 4:45 p.m. for all personnel not operating on a shift basis; and 7 a.m. to 3:30 p.m.; 3:30 to 11:30 p.m.; and 11:30 p.m. to 7:30 a.m. for all personnel on a shift basis.

INDUSTRIAL USO HEAD ARRIVES; AVIONS FORM "BIKE" CLUB

A reception was held at the Industrial U.S.O. on North King Street, June 29, to welcome Grover K. Gregory, the new director, who has been receiving special training in New York for this post.

While awaiting the arrival of Mr. Gregory, this facility was temporarily assigned to Frank M. Long, who engaged in making the necessary arrangements for the official opening in the near future.

A Committee of management has been formed and is composed of the following members: Mrs. George M. Per- fator, W. R. Diggs, Paul D. Taylor, R. F. Hughins, H. T. Lawless, and Charles A. Hul- cher. A number of the members of the Apprentice Avion Club are now serving on special program and activities committees appointed by Mr. Long.

It has been pointed out that although most of the committees have been appointed, there are still a number of vacancies which need to be filled. We urge all members to cooperate in filling these vacancies.

Bulletin To Be Published Weekly

The Bulletin will come out every Saturday, and the deadline for submitting contributions will be on the previous Tuesday or early Wednesday. The telephone number is 381.

If you know of any interesting news concerning the Laboratory personnel, or if you have any contributions such as cartoons, we will be glad to receive them.
Joe is Deferred

Joe's deferred from military service. Maybe not for good, but at least as long as his contribution to the war effort is considered more valuable than the immediate service he could render in uniform.

Ofttimes he under-rates the value of his job. He does so only because he loses sight of the importance of the engines he builds to the pilot of a death-toting "Fortress" over Germany or to the pilot of the "Seagull" winging out hundreds of miles from the fleet to spot the enemy. These are tough jobs; but so is yours, if you put everything you've got into it!

Chairman Paul V. McNutt of the War Manpower Commission explains your deferment in this way:

"Occupational deferment usually indicates that a man is making a more valuable contribution to the war, right now, than if he were in uniform. Such men should remember that our fighting men need materials and supplies to carry on the fight, plenty of them.

"It is the War Manpower Commission's job to see that the nation's manpower is properly allocated - to supply the men for our fighting forces through Selective Service, and at the same time to supply the workers for producing the goods those fighting men need. We are in a position to see the overall picture - the overall need - which the individual worker cannot see.

"We realize how difficult it is for workers in civilian clothes to explain to their friends and neighbors why they are not in the armed forces. The public should realize that the young, able-bodied man in civilian clothes may be anxious to join the armed forces. It simply happens that his work is too important to induct him at this time, or, perhaps, he may have already been considered and did not measure up to the physical standards of the armed forces, even though he has a healthy outward appearance.

"There are some 3,000 occupations which have been designated as essential occupations. Men in these occupations will be kept in those jobs until changing circumstances, such as the training of suitable replacements, make it advisable to induct them into the armed forces."

This is food for thought, Joe. If you are deferred, you should take justifiable pride in that deferment and give all you've got - we all owe it to the men at the front!

(From the Cloud-Buster, a publication of the Ranger Aircraft Engines Division of Fairchild Engine and Airplane Corporation.)

LIFE AT THE LAB

Melvin Butler's Personnel tribe presented him with a gift on his birthday, July 2. He is 26 and eligible......

Mary True's Duplicate Office girls were true to her on her birthday June 28, with a surprise party.....Mrs. Earl Schauble, Structures Lab, is visiting her husband who is on furlough in Kansas City, Missouri......Doug Hill, who worked on the Bulletin with the Photo Lab, is leaving to become an aviation cadet.

Miss M. Viola Ohler has been designated head of the Editorial Section instead of acting head.....A.I. Moskowitz, Loads-Section, was married in June to Miss Sylvia Lehrer of New York....Mrs. Margaret Steiner, Impact Basin, is the mother of a son born in May. Her husband, Lt. Roy Steiner formerly of Flight Research Loads, is serving in England with the Army Engineers.....

A group of LMAL sailing enthusiasts will enter sail boat races sponsored by the Hampton Yacht Club, July 4.

E. H. Gilbert, who went to AERL with the Power Plants Division, celebrated his twentieth anniversary of service with the NACA on July 2. Melvin N. Gough's brother, Lt William V. Gough, Jr., U.S.N.R., has received his second decoration of the war for heroism. His latest award was the Navy and Marine Corps Medal for heroism against enemy Japanese forces.

We received an encouraging note from Miss Pearl Young, of AERL, who promised to write to her friends here as soon as she gets settled.....Clyde (Boy Scout) Lumpkin is on a camping trip this week.....Bill Craig and Paul Taylor are reported to be lonely and in the market for "constant companions".....

Dr. Calvin N. Warfield stated that all physics classes and labs for the computers, will be moved up a half an hour beginning July 5.

AERONAUTICS: First in war; first in peace.
America was about to be engulfed in a world war in 1915 when President Wilson appointed the first NACA. Included on that pioneer Committee was Dr. Joseph Sweetman Ames, for many years an outstanding physicist on the faculty of John Hopkins University and for the latter part of his career, served as president of that great Maryland Institution.

Serves 24 Years

After 24 years of service on the NACA, during which Dr. Ames served as chairman of the executive Committee from 1919 to 1936, as chairman of the main Committee from 1927 to 1939 and at different times on more than 20 of its subcommittees, he retired in October, 1939, because his physical condition would not permit him to "take a sufficiently active part in the great work that confronts the Committee."

On the night of Thursday, June 24, Dr. Ames died at his home in Guilford, a Baltimore Suburb. But though death ended the career of Dr. Ames, his accomplishments were to remain as inspirations in the realm of aeronautical research; and the NACA, which he nurtured through more than two decades, was destined because of his leadership to play a big part in bringing victory through air power to an embattled United Nations.

Receives Tribute

To his land of Valhalla, Dr. Ames could take such impressions as the tribute paid to him upon his retirement, by President Roosevelt, who said in part: "Our Republic would not be worthy of the devoted service you have rendered... without compensation if it could not on this occasion pause to pay tribute where it is so justly due... ..." "...The administration and the accomplishments of the Committee under your leadership reflect your great scientific attainments, professional courage and executive ability.

"That the people generally have not known of your brilliant and patriotic service is because it has been overshadowed by your passion for accomplishment without publicity. But the fact remains, and I am happy to give you credit for it, that the remarkable progress for many years in the improvement, performance, efficiency, and safety of American aircraft, both military and commercial, has been due largely to your own inspiring leadership in the development of new research facilities and in the orderly prosecution of comprehensive research programs".

Cited By Committee

A testimonial to Dr. Ames was adopted by fellow-members of the Committee upon his retirement. It pointed out his accomplishments, and described him as "an inspiring leader of men and a man beloved by all his colleagues because of his rare personal qualities." To perpetuate the memory of Dr. Ames, the Moffet Field Laboratory was named in his honor.

Honored By Public

Many public honors came to Dr. Ames, despite his modesty. Much credit for the many outstanding accomplishments of the NACA must also be given to him, for it was under his courageous leadership that the foundation for the progress in airplane design now being realized was made.
MUSIC GROUPS PROGRESSING

The music group met for the second time on Tuesday, June 29, at the USO club, and really got down to a bit of work. The chorale group which met at 7:30 started out under the direction of Donald E. Brimley, and Robert W. Kamm, each directing the group in the music he had been able to borrow for our use. The results were surprisingly good for just a casual reading, and it looks as though this group might be ready for some real work on good music. L. R. Reynolds, of the USO club, invited the group to participate in a music program to be given at the clubhouse on July 4. Needless to say, the invitation had to be declined.

The orchestra met at 8:30 and had a wealth of music and only about five persons with instruments available. Mrs. E. W. Miller has most graciously donated quite a bit of orchestra music for full orchestra. So, despite the lack of instruments, there was music, and the group that was there thoroughly enjoyed running through it in an impromptu manner.

Another meeting of the group is being called for next Tuesday night. The chorale group is to meet at 7:30, and adjourn for a business meeting at 8:15 of the combined groups, orchestra and chorale. After this short business meeting, the orchestra will meet.

Perhaps it was the thunder storm that kept many away, but it is hoped that more persons with instruments, and a few more sopranos will turn up at our next meeting, rain or shine. This is not an effort to organize a professional group of musicians; anyone interested in participating is welcome to attend the meetings.

GAS MODEL CONTEST TO BE JULY 4

Due to heavy winds the "Brain Busters" gas model contest scheduled for June 27 was postponed until Sunday, July 4.

The contest should prove quite a success, with prizes being offered in all classes, A, B, and C. Weighting in and checking of planes will begin at 1:00 p.m. and the contest will end at 6:00. The usual rules will prevail.

The "Brain Busters" Model Club will meet at the King Street U.S.O., Sunday night, July 4 at 8:30. Color movies of the 1941 and 1942 hydro contests at Portsmouth will be shown by Phil Pepoon. All model builders are invited to attend this meeting.

"Brain Buster" News

George Sadler's new "Sadlerish" looking Lord Beaverbrook gas job will make its first public appearance next Sunday.

T. T. Sladek received quite an appropriate gift at his super birthday party last week.

It's rumored that Bob Storbeck is getting the bug again and that Ben Cleveland is to start a rubber job soon. It's also getting around that George Gentry with the aid of Bill Ramsey has a new design cooked up for hydro this summer.

"Hog" Waller has had a nice little trip to the hospital from a terrific sunburn he got when he should have been flying models.

Anyone having a good G.H. Q. or similar quality engine can get rid of it in a hurry.

Joe Dodson needs one to replace his super (?) Tiger in the "Gerkin".

Bill Slade lost his Cyke powered sailplane braving the breeze last Sunday. Jonesy's Bantam powered ship was lost last week also. Anyone with information regarding the whereabouts of either of these models will please notify some member of the "Brain Busters".

Jean Poythress almost prematurely adjourned the last "Brain Busters" club meeting by emptying two dozen marbles on the floor.

"Honeyboy" Parmenter is soon to lose $5 on a foolish bet with an autogiro fan. "Honeyboy's" new 60 job is a beauty.

Marchal claims his new Hep Cat is even better than the first-new super airfoil and better lines. We wonder?

Why is Birkel never seen at the field anymore? With five class B ships he should do O.K. Could it be the Bullets have failed him?

We hear "Hasbeen" Everett is having a big glider contest soon - real cash prizes!

Library Books Missing

As a result of the recent annual library inventory, the following books are discovered missing:

- 621.63 C23 Engineers' handbook of tables, charts etc. By Willis H. Carrier. 1936.

Due Dates:
- 669.7 B38 The technology of magnesium. Adolf Beck, Ed. 1936.
TENNIS CONTEST ENDS IN TIE

The first tournament of the season, held last Sunday by the NACA Tennis Club, proved to be a highly successful and closely contested match. Charles Brandes, of Technical Service Section, and Howard Edwards, of the Instrument Research section, battled to a 7-7 tie in the final set that was intended to decide the winner. At this point, because of the hot weather, it was decided to call the match a draw. The finalists will play off the set at a later date. Semifinal matches in the men's division were between Brandes and Bill Hagginton, of the Full Scale tunnel, and between Edwards and Bob Swanson of the Atmospheric Wind Tunnel.

A feature of the tournament was the large percentage of girls among the entries. The members of the fair sex almost outnumbered the male contestants. Julia Woodbridge of the Flight Research Loads section was declared winner of the ladies event.

Members of the club or non-members who are interested in tennis are urged to play more frequently at the NACA courts. There are tennis enthusiasts of all degrees of ability from beginner to expert who are looking for competition among the members of the Laboratory staff. Because of the success of the first tournament, plans for similar contest will be announced in the near future.

Offers Picture Collection

Walter Reiser reports that he has an accumulation of photographs, depicting events of the NACA, and that any officials who would like to select some for their offices may do so and the Maintenance Section will take care of having the pictures hung.

The photographs include such scenes as Committee meetings, the manufacturer's conferences at IMAL, and many others.

“I Really Am Not Hurt At All
These Crutches Are In Fun
I Know The Rules Of Safety
And Follow Every One!”

BUILD DRIVeway AND PARKING AREA;
PLAN OTHER JOBS

A driveway between the Technical Service and the Maintenance Buildings and parking areas on either end of the Technical Service Building are being built of concrete by the Bero Engineering and Construction Company of Richmond. The job will cost $10,250.

In addition to affording modern parking areas, the project is expected to keep down dust and to improve the appearance of the area. Work has already begun and will be completed in approximately one month.

It is proposed to build a parking area next to the 19-foot Pressure Tunnel, although the contract for the project has not yet been awarded.

Another proposed project is the erection of a lumber storage building in the rear of the Warehouse Building in the West Area. Bids on this job will be opened July 8.

BUILD DRIVEWAY AND PARKING AREA;
PLAN OTHER JOBS

A feature of the tournament was the large percentage of girls among the entries. The members of the fair sex almost outnumbered the male contestants. Julia Woodbridge of the Flight Research Loads section was declared winner of the ladies event.

Members of the club or non-members who are interested in tennis are urged to play more frequently at the NACA courts. There are tennis enthusiasts of all degrees of ability from beginner to expert who are looking for competition among the members of the Laboratory staff. Because of the success of the first tournament, plans for similar contest will be announced in the near future.

Offers Picture Collection

Walter Reiser reports that he has an accumulation of photographs, depicting events of the NACA, and that any officials who would like to select some for their offices may do so and the Maintenance Section will take care of having the pictures hung.

The photographs include such scenes as Committee meetings, the manufacturer's conferences at IMAL, and many others.

“I Really Am Not Hurt At All
These Crutches Are In Fun
I Know The Rules Of Safety
And Follow Every One!”

BUILD DRIVEWAY AND PARKING AREA;
PLAN OTHER JOBS

A driveway between the Technical Service and the Maintenance Buildings and parking areas on either end of the Technical Service Building are being built of concrete by the Bero Engineering and Construction Company of Richmond. The job will cost $10,250.

In addition to affording modern parking areas, the project is expected to keep down dust and to improve the appearance of the area. Work has already begun and will be completed in approximately one month.

It is proposed to build a parking area next to the 19-foot Pressure Tunnel, although the contract for the project has not yet been awarded.

Another proposed project is the erection of a lumber storage building in the rear of the Warehouse Building in the West Area. Bids on this job will be opened July 8.

BUILD DRIVEWAY AND PARKING AREA;
PLAN OTHER JOBS

A driveway between the Technical Service and the Maintenance Buildings and parking areas on either end of the Technical Service Building are being built of concrete by the Bero Engineering and Construction Company of Richmond. The job will cost $10,250.

In addition to affording modern parking areas, the project is expected to keep down dust and to improve the appearance of the area. Work has already begun and will be completed in approximately one month.

It is proposed to build a parking area next to the 19-foot Pressure Tunnel, although the contract for the project has not yet been awarded.

Another proposed project is the erection of a lumber storage building in the rear of the Warehouse Building in the West Area. Bids on this job will be opened July 8.
8-Foot Tunnel Upsets Full Scale

(By Si Diskin)

In the game of the week, 8' High Speed defeated Full Scale 5-4 and took over undisputed possession of first place. The largest crowd of the season was on hand to witness the 8-inning overtime battle. The defeat dropped Full Scale from the top rung into a third place tie with West Sheetmetal Shop.

In another game, 19-foot Pressure Tunnel upset Structures Research, last year's champions, by the score of 5-4. It was nip and tuck all the way with 19-foot eventually coming from behind in the seventh inning to score two runs and take the lead for good.

This win coupled with another over the Tank team enable 19-foot to climb from last place to a 3-way tie for 7th position, only 3½ games out of first.

The following teams have established the best offensive and defensive records for the first four weeks of play:

Offensive: 1st week - Air Flow Research
2nd week - 8' High Speed Tunnel
3rd week - Full Scale Tunnel
4th week - 8' High Speed Tunnel

Defensive: 1st week - Structures Research
2nd week - Erection Shop
3rd week - Structures Research
4th week - Structures Research

The standings of the teams are as follows:

<table>
<thead>
<tr>
<th>Team</th>
<th>Won</th>
<th>Lost</th>
<th>Pct.</th>
<th>Games Behind</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. 8' High Speed Tunnel</td>
<td>5</td>
<td>0</td>
<td>1.000</td>
<td>--</td>
</tr>
<tr>
<td>2. Stability Research</td>
<td>4</td>
<td>0</td>
<td>1.000</td>
<td>1/2</td>
</tr>
<tr>
<td>3. West Sheetmetal Shop</td>
<td>5</td>
<td>1</td>
<td>.833</td>
<td>1/2</td>
</tr>
<tr>
<td>4. Full Scale Tunnel</td>
<td>5</td>
<td>1</td>
<td>.833</td>
<td>1/2</td>
</tr>
<tr>
<td>5. Structures Research</td>
<td>4</td>
<td>1</td>
<td>.800</td>
<td>1</td>
</tr>
<tr>
<td>6. 16' High Speed Tunnel</td>
<td>2</td>
<td>3</td>
<td>.400</td>
<td>3</td>
</tr>
<tr>
<td>7. 19' Pressure Tunnel</td>
<td>2</td>
<td>4</td>
<td>.333</td>
<td>3 1/2</td>
</tr>
<tr>
<td>8. Air Flow Research</td>
<td>2</td>
<td>4</td>
<td>.333</td>
<td>3 1/2</td>
</tr>
<tr>
<td>9. Erection Shop</td>
<td>2</td>
<td>4</td>
<td>.333</td>
<td>3 1/2</td>
</tr>
<tr>
<td>10. Propeller Research Tunnel</td>
<td>1</td>
<td>3</td>
<td>.250</td>
<td>3 1/2</td>
</tr>
<tr>
<td>11. West Machine Shop</td>
<td>1</td>
<td>4</td>
<td>.200</td>
<td>4</td>
</tr>
<tr>
<td>12. Tank No. 1</td>
<td>1</td>
<td>5</td>
<td>.167</td>
<td>4 1/2</td>
</tr>
<tr>
<td>13. Flight Research Maneuvers</td>
<td>1</td>
<td>5</td>
<td>.167</td>
<td>4 1/2</td>
</tr>
</tbody>
</table>

LANKES WORKING

(From page 1)

and instructor, is believed to assure his value in supervising the drawing of figures which would be used in reports in which isometric, oblique, and perspective projections are required.

Mr. Lankes' woodcuts have appeared in several magazines and newspapers. An outstanding collection of his work appeared in his book, "Virginia Woodcuts." He also authored a woodcut manual, and illustrated a volume of Gray's "Elegy."

Ben Vogel, art editor of the Bulletin, will assist Mr. Lankes in instructing the graduates, all of whom are women who majored in art. They are from the University Of Kentucky, the University of North Carolina, Columbia University, and Farmville State Teachers' College.

R. E. Mixson, head of the Reproduction Section, described the plan for drawing figures as of especial interest to potential authors of technical reports. He invited the report authors who find a need for such drawings to communicate with the section through telephone 328.

BUS SCHEDULE

Buses leave Newport News for Langley Field:


From Langley to N.N.


INDUSTRIAL USO HEAD ARRIVES

(From page 1)

equipment and furniture has not yet been received, the entire staff of this Laboratory is invited to attend. These activities are located in the American Legion Hall, opposite the Court House in Hampton. Special programs are planned for each night including dancing, movies, ping-pong and various other games and activities.

After the reception, there was a director's meeting of the Avion Club and plans were completed for organizing a Bike Club. The first meeting will be held Friday, July 9, at the Industrial U.S.O. and plans will be made for the first bike trip. This club will be open only to members of the Avion Club; however, someone will be at the U.S.O. that night to accept new memberships. All who are interested are urged to come and help plan.
NEW NACA PINS PLACED ON SALE

The new NACA pins have arrived from the emblem company and are on sale in the East Area Cafeteria. The price is 70 cents.

The pins, approximately three-fourths of an inch wide, have a standard NACA insignia design in red, white, and blue with the letters "U.S." and "NACA" in silver.

They are suitable for wear by both men and women.

LMAL CAFETERIA BEGINS NEW FOOD SERVICE PLAN

A new arrangement for dispensing food in the cafeteria is in effect. Observations during the past week indicate that the new plan is speeding up service.

There are now two dispensing counters instead of the former one. The old line will dispense everything it has in the past, including hot and cold dishes, beverages, salads and desserts. The new line, moving from north to south, dispenses cold plates, salads, desserts, and beverages.

OUR NEW SLOGAN: Fifteen percent each pay day in war savings bonds.

CONTRACT LET

Bids were opened on June 22 for the construction of an Exterior Boiler House for the Flight Research Laboratory. C. C. Vellines, Contractor, was the successful bidder and has been awarded the contract in the amount of $15,703, according to Ray W. Hooker, representative of the contracting officer.

This project provides for the re-location of the existing interior boiler house to an outside location. The exterior location will allow sufficient space to provide two boilers for heating the new hangar which is at present unheated. Construction will be of brick, architecturally.

(See page 2)

PLAN PERMANENT MUSICAL GROUP

Another meeting of the music group was held at the USO on Tuesday, July 6th. The choral group met at 7:30 p.m. and rehearsed, with R. W. Kamm directing. At 8:15 a business meeting was held to discuss the problem of organizing permanently and gathering music for a permanent repertoire.

Name Committee

Miss Richardson, acting as temporary chairman, appointed a nominating committee to select candidates for the offices of chairman and secretary-treasurer of the combined groups. This committee, consisting of Roger Peters, Chairman, D. King, Lillian Caminade, and Peggy Gildner, is to present a slate at the next meeting.

R. W. Kamm and D. Brimley were appointed as a committee to select music for the entire choral group and a report is to be given at the next meeting.

As mentioned in previous reports, the orchestra is well supplied with music.

Thirty In Chorus

Aside from the business part of this meeting, some time was spent in going over the music now available to the group. The choral group now consists of at least 25 to 30 persons.

The next meeting is to be held on Tuesday, July 13, at the USO Club in Hampton at 7:30 p.m. The schedule:

7:30-8:15 p.m.—Choral group
8:15-8:45 p.m.—Business meeting
8:45-9:30 p.m.—Orchestra

(See page 2)
The LMAL Bulletin is prepared and published at the Langley Memorial Aeronautical Laboratory of the National Advisory Committee for Aeronautics, Langley Field, Virginia, in the interest of LMAL employees. Contributions of news and art should be sent to the Editor, in the Administration Building. The telephone number is 381.

Editor. . . . . . . . . . H. Lee Dickinson
Associate Editor. . . . . Ruth Angel
Art Editor. . . . . . . Ben Vogel
Reporters. . . . . . . . . LMAL Employees

Cooperate For Victory

A story in this edition of the Bulletin includes a letter received by the NACA from E. H. Heinemann, Chief Engineer of the El Segundo plant of the Douglas Aircraft Company. In Mr. Heinemann's note there is an eleven-letter word which, if practiced by all concerned, is going to mean much in the winning of the war and the enjoyment of the peace to come. That word is "cooperation".

Said Mr. Heinemann: "I would like to take this opportunity to thank you and your staff for the excellent cooperation and assistance given us during the wind tunnel test program" on the A-26 airplane.

All of which proves that, even though the best of facilities and technical knowledge are available at LMAL, their effectiveness in aeronautical research would be dwarfed without that essential human characteristic--cooperation. And that means not only cooperation between aircraft company representatives and the NACA, but cooperation within the ranks.

So, to all of those at LMAL who played a part--however small--in helping to make the A-26 and other United Nations planes better weapons of war, we offer a toast; and point out that your reward for going beyond the line of duty in expediting important war research activity should come in the satisfaction gleaned from the knowledge that the Axis war lords are gradually being pummeled into submission through the help of United Nations air power.

COMMEND NACA (From page 1)

Dr. Lewis, writing to Henry J. E. Reid, Engineer-in-Charge at LMAL, said that the success of the A-26, which he considers the "outstanding airplane of the present year, is most gratifying to the Committee, and I want to congratulate those members of the technical staff at Langley Field who played such an important part in determining the design characteristics of this airplane."

Congratulated in particular by Dr. Lewis were Eastman Jacobs, and the staff of the Two-Dimensional Variable-Density Tunnel; Clinton Dearborn, and the staff of the Power-Plants Installation group; David Biermann, and the staff of the 16-foot High Speed Wind Tunnel; Carl Wenzinger, and the staff of the 19-foot Pressure Tunnel; Aubrey Harris, and the staff of the 7 by 10-foot Wind Tunnel, "and all the other members of the Committee's staff who took part in expediting and preparing the reports and information covering all of the research work done on the A-26 airplane."

Dr. Lewis also commended the Army Air Forces' Liaison Office under Col. Carl Greene "for the excellent manner in which they coordinated and expedited the research program."

Our new slogan: Fifteen percent each pay day in war savings bonds.
LMAL WILL BUY HALF MILLION IN BONDS THIS YEAR

LMAL employees have allotted nearly a quarter of a million dollars for war bonds during the first six months of this year.

The June allotment of $45,484.43 sent the semi-annual total to $247,255.90. At the rate of increase in the total monthly allotments, the Laboratory personnel will spend far in excess of half a million for bonds this year.

There were 1,965 employees participating in the pay roll plan in June, 97.37 per cent of the 2,018 in pay status. The percentage of gross pay roll allotted in June was 11.53. The average allotment was $22.54.

Work Is Begun On Dormitories

Construction has begun on the women’s dormitory project near Kecoughtan Court. Single and double rooms will accommodate 368 unmarried women employed at LMAL and in other national defense work.

The dormitory wings will be of frame construction, with asbestos shingle as a covering. The first floor of the dorm structures will be of concrete with an asphalt tile covering. The second floor will be of wood. The walls will be faced with wallboard and painted.

The service building, connecting the dormitory units, will be of cinder block construction, as will the community building. All toilet facilities will be centralized in the service building. In addition, the service building will include a heater room, entrance lobby, and other service facilities.

The community building will be comprised of three sections: 1) maintenance and management, including an office for the resident manager; 2) morale activity, including a lounge, library, auditorium, club rooms, and a small refreshment bar; and 3) small infirmary, of three double rooms and outfitted somewhat like a small hospital.

Outdoor recreation facilities will be made available on the dormitory grounds. The dormitory units are expected to be occupied by October.

Keep Em Flying High to Victory

There are certain advantages to the employee under the "Current Tax Payment Act of 1943." For one thing, taxes up to $50 are completely forgiven as to the 1942 taxes, and 75 per cent of the 1942 taxes are forgiven with respect to amounts over $66.66. Between $50 and $66.66 the forgiveness is more than 75 per cent. The withholding for the victory tax is reduced from 5 per cent to 3 per cent, the latter amount being included in the 20 per cent which is to be withheld. (It is to be borne in mind that the 20 per cent withholding provision does not apply to the gross pay but only to income over and above withholding exemptions, and that the total amount withheld is deductible by the employee when he pays his income tax upon filing of a return). So, with these figures in mind, it should be easier for us to keep the noses of the planes (above) "out of the blue."
PLAN SECOND TENNIS TOURNAMENT

Several members of the NACA Tennis Club will frequent their tennis courts near the new Langley Field traffic circle during afternoons next week to practice for the tournament to be held starting at 1 p.m. Sunday, July 18.

The tournament, second of the season, will be more formal than the previous one. The elimination matches consisting of three sets will be played off on July 18 and the semi-final and final matches will be arranged during the following week at the convenience of the players.

The clubhouse at the tennis courts had the appearance of a bicycle club last week-end, many players using this mode of transportation to reach the courts. It was pointed out by club officials, however, that members without bicycles may conveniently reach the courts by taking the Langley Field bus from Hampton as far as the new traffic circle. Buses leave Hampton every half hour at five and thirty-five minutes after the hour.

The courts are reported to be in good shape for the coming tournament, which will attract a number of men and women tennis enthusiasts. The last tournament ended in a tie between Charles Brandes, Technical Service, and Howard Edwards, Instrument Research.

Typewriters - Handle With Care

The shortage of typewriters at the Laboratory has been an irritating problem for some time. If some super genius would devise a way for two typists to perform two jobs at the same time on the same typewriter we could breast the storm with ease. But the inventive brain trust is no doubt busy in more promising fields. The problem is frequently brought to the attention of the chief clerk, apparently in the belief that some sort of black magic on the part of the office can produce typewriters. Such belief is doomed to disappointment. However, these frequent requests have resulted in a survey of the typewriter situation, and it has been found that in several instances, at least, typewriters have been more or less rejected, for all except the rough type of work and sometimes even for that, because of their poor mechanical condition.

For the benefit of the owners of typewriters who have not given their machines every opportunity to do their bit, the following procedure is submitted: Call the purchase office, phone 269, and advise them of the serial number of your machine, and whether or not it can be spared to be sent to the stock room in the warehouse to await repairs, your section, and also that you are enclosing a description of the repair needs of the machine. If you cannot spare the machine at the moment, you will be advised when the repairman is available and the machine can then be sent to the warehouse. All local repairs must be made in the warehouse. The purpose of making this call is to take advantage, if possible, of a current trip to Langley Field of the typewriter repairman, which you might miss if you submit the purchase request through the regular channels.

Sweet Dreams: Make your dreams come true through the pay roll savings plan. Save for a new home, new car, your children's education and many other pleasures of life that are worth working for.

AERONAUTICAL TERMS

Moment

Lift

Drag

Allotments Up

The Bond Office reports that approximately 17 persons have increased their bond allotments from 10 to 15 per cent in the past two weeks, since a campaign was inaugurated to reach this goal throughout the Laboratory, where possible.

The aim is to increase the monthly allotments from a total of approximately $45,000 to $60,000. Pamphlets entitled, "Figure It Out For Yourself", have been distributed and employees are requested to make use of the payroll authorization form located on the inside back cover if it is desired to increase allotments. The forms should be sent to the bond clerk when completed.
Plan Model Contest, Hobby Show

A scale model contest, sponsored by the "Brain Busters" and the USO, will be held Sunday August 8, at the Industrial USO. On Sunday, July 11, a small display of models will be placed there to give the public an idea of what the show will be like.

Anyone with completed scale models, u-controls, gas jobs, rubber models, or anything in the model line, who would like to help with the display, may contact Dick Sladek, Dynamic Model Shop, or Charles Folk, W.A.W.S. The models will be taken care of by a group of "Brain Busters" and they will not be handled by anyone while on display.

With keen competition and especially good flying weather the "Brain Busters" gas model contest, which was held last Sunday, turned out to be quite a success. Using a nine second motor run, Paul Marchall took first place in class C with an out-of-eight flight of nine minutes. C. R. Molisee won first in class AB with a three flight average of 3 minutes, 2 seconds. Other winners were Dick Sladek, J. L. Hamelman, Frank Parmenter, and Tom Abel.

The regular meeting of the "Brain Busters" was held last Sunday night and 45 modelers joined the club. They will be given official "Brain Busters" membership cards. Movies of Portsmouth hydro contests were shown, and such an increased interest in hydro models was displayed that the club will soon announce complete plans for a $150 gas and rubber powered hydro model contest.

Life At The Laboratory

Three LMAL "sailors" won places in the Hampton Yacht Club regatta July 4: R. M. Hansen, Instrument Research, was first in the free-for-all with "My Lady"; and second places were captured by Hank Fedziuk, office of the Engineer-in-Charge, with "Angus", in the class for cross-planked deadrise type vessels, and John Becker, Eight-foot high Speed Tunnel, in the knockabout class.

The Tank and TDT are having a party Saturday night, July 10, at the Chamberlin Country Club. Occupants of 528 Kecoughtan Court, Larry Fogarty, Jerry Teplitz, Ralph Avakian, and Pete Deters, entertained new computers of the Pressure Tunnel July 3...Anna Land, of the Tank, is recuperating at her home from a recent operation...Elizabeth Scott, Administrative, drove Tom Bulcher's scooter into the side of a building. Tom wouldn't have minded so much if he hadn't been a passenger.

Bob Neuber, AFR, is the father of a daughter born on July 5...Jerry Kayen, 19-foot Pressure Tunnel, and his bride have returned from a honeymoon in New York, and are living at Southampton...Naomi Barnes, who formerly prepared Bulletin copy on the Varl Typer, is now Mrs. Robert E. Beatty. She was married on June 5 and is living in Unlontown, Pa...Carolyn Mewinsk, of Milwaukee, is engaged to David Ulman, formerly of the Engineering Section and now of the Photo Lab.

NACA tradition is deep in the family of Sue Hunt, of Poquoson, new employee of Flight Research Loads. Her father, R. E. Hunt, has been an employee in the Hangar for 143 years and her grandfather, J. W. Spivey, has worked for 20 years in the Hangar.

AERONAUTICS: First in war; first in peace.

PREPARE FORMS

Although the Apprentice Administration has for some time been placing relatively large tool orders for apprentices as well as regular journeymen, extreme difficulty is now being encountered in getting deliveries on items in less than two-dozen lots. This often results in long delays while attempting to obtain large enough orders to insure prompt delivery. It has been found that in certain cases individuals may obtain single tools more quickly by ordering them direct, or by purchasing them from local dealers.

Will Issue Forms

Special priority rating forms have been prepared by the Apprentice Administration and will be issued to any Laboratory mechanical worker who has need for such tools in the pursuit of Laboratory work. An individual form must be obtained for each tool. These forms should be properly filled out and then returned to the Apprentice Administration where they will be submitted to Sherwood L. Butler, Procurement Officer, for the proper preference rating. Preference ratings will only be assigned to requests for tools to be used at the Laboratory.

Continue Purchases

The Apprentice Administration will continue to purchase tools in large quantities whenever suitable orders can be obtained. The Apprentice Tool Procurement Committee is now awaiting delivery of a previous order of tools, which is expected to arrive in the near future. Notices will be forwarded to employees who ordered these tools immediately upon their arrival.

It is hoped that the use of preference rating forms will assist employees in securing the tools necessary to their work.
8-FOOT TUNNEL REMAINS UNDEFEATED

By Si Diskin

Game of the week: Erection Shop 11, Stability Tunnel 8.

This defeat dropped Stability from the ranks of the undefeated and left only 8' High Speed with an unmarred record to date.

In turn, the win enabled the Shop team to climb to 6th place, just 3 games out of first.

In the other games played during the week, PRT defeated 16' High Speed 10-1; Full Scale swamped West Machine Shop 19-11; AFR took Tank #1 to the tune of 11-3; and FRM lost to 19' Pressure Tunnel by the close score of 7-5.

The 8' High Speed-Structures game was postponed and will be played at a later date.

The best offensive and defensive teams for the week were Full Scale and PRT, respectively.

The standings:

<table>
<thead>
<tr>
<th>Team</th>
<th>Won</th>
<th>Lost</th>
<th>Pct</th>
<th>Games Behind</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. 8' High Speed</td>
<td>5</td>
<td>0</td>
<td>1.000</td>
<td></td>
</tr>
<tr>
<td>2. Full Scale</td>
<td>6</td>
<td>1</td>
<td>.867</td>
<td></td>
</tr>
<tr>
<td>3. Stability Research</td>
<td>5</td>
<td>1</td>
<td>.833</td>
<td>1/2</td>
</tr>
<tr>
<td>3. West Sheetmetal Shop</td>
<td>5</td>
<td>1</td>
<td>.833</td>
<td>1/2</td>
</tr>
<tr>
<td>5. Structures Research</td>
<td>4</td>
<td>1</td>
<td>.800</td>
<td>1</td>
</tr>
<tr>
<td>6. 19' Pressure Tunnel</td>
<td>3</td>
<td>4</td>
<td>.428</td>
<td>3</td>
</tr>
<tr>
<td>6. Erection Shop</td>
<td>3</td>
<td>4</td>
<td>.428</td>
<td>3</td>
</tr>
<tr>
<td>8. Propeller Research</td>
<td>2</td>
<td>3</td>
<td>.400</td>
<td>3</td>
</tr>
<tr>
<td>9. 16' High Speed</td>
<td>2</td>
<td>4</td>
<td>.333</td>
<td>3 1/2</td>
</tr>
<tr>
<td>10. Air Flow Research</td>
<td>2</td>
<td>5</td>
<td>.286</td>
<td>4</td>
</tr>
<tr>
<td>11. West Machine Shop</td>
<td>1</td>
<td>5</td>
<td>.167</td>
<td>4 1/2</td>
</tr>
<tr>
<td>11. Tank #1</td>
<td>1</td>
<td>5</td>
<td>.167</td>
<td>4 1/2</td>
</tr>
</tbody>
</table>

PLAN BLOCK DANCE

An outdoor block dance, similar to those held at Stuart Gardens the nights of July 5 and 8 by the project's civic group, will be held in Hampton in the near future, according to plans being made by Gene Hicks, Avion Club activities director.

Although the Stuart Gardens dances were more or less an experiment, those who attended report that they were highly successful and offer much-needed recreation for persons engaged in national defense work.

Music was furnished by the use of Mr. Hicks' loudspeaker system and collection of records.

Contract Let
(From page 1)

matching the balance of the hangar.

The contractor has been authorized to proceed immediately in order that construction may be completed before the start of the heating season.

THE URGE TO RUSH IS IN US ALL, ESPECIALLY TO OUR LABORS.

BUT REMEMBER THIS, NEXT TIME YOU SPEED:

THE ROAD IS HALF YOUR NEIGHBOR'S.
JESSE H. JONES CONGRATULATES HYDRODYNAMICS DIVISION

Jesse H. Jones, Secretary of Commerce, has expressed in a letter his appreciation for the "most thorough way in which the National Advisory Committee for Aeronautics has investigated the hydrodynamic interests" of the Hughes-Kaiser Cargo plane.

The letter from Mr. Jones has been forwarded to J.E. Reid, LMAL Engineer-in-Charge, by Dr. George W. Lewis.

Dr. Lewis said that, "It is very gratifying for the Committee to receive such a complimentary letter, and the laboratory, particularly the Hydrodynamics Division, is to be congratulated".

The letters from Mr. Jones and Dr. Lewis will be framed for exhibit in the East Area Cafeteria. Copies of the letters will be on display in the West Area Cafeteria.

EMPLOYEES GIVEN PHYSICAL EXAMS

Fifty male employees of LMAL underwent a complete physical examination during the past week at the Langley Field Base Hospital. Approximately 50 each week will be handled by the hospital, which has offered the service to Laboratory employees.

Although the examination is optional, Laboratory officials expressed a hope that each employee will take advantage of the offer. The results will be revealed to each employee examined.

The personnel office is preparing a schedule of dates for the examination, and those employees scheduled will be contacted in advance.

Physical examinations are confined to male employees for the present.

AVION MEETING: All Avions are urged to attend a meeting Wednesday, July 21, at 7:30 at the Industrial USO, Hampton.

Name Temporary Music Officers

The weekly meeting of the LMAL Musical Group was held on July 13 at 7:30 p.m. at the Hampton USO Club on Academy Street.

An election was held to provide a temporary setup for the purpose of organizing the two units, choral and orchestral, into a permanent LMAL Musical Group. Howard Garris, Flight Research Maneuvers, was elected temporary chairman, and Barbara Brown, Editorial Office, was elected temporary secretary-treasurer.

Conduct Business

These two officers will conduct the business of the group until it becomes possible to work out satisfactorily a permanent organization.

Hold Rehearsal
The business meeting was short and snappy, and rehearsals of both units were

NAME COMMITTEE

A committee has been formed for the purpose of improving and enlarging the library. Members of the staff are invited to submit suggestions to the following members of the committee:

J. N. Kotanchik, Structures Lab, West Area.
R. T. Jones, Stability Analysis.
R. E. Street, Air Flow Research.
M. J. Stoller, Instrument Research.
A. Kantrowitz, Air Flow Research.
C. Kaplan, Physical Research.

WITHHOLD $25,461 AS TAX BECOMES EFFECTIVE

A large part of LMAL's July 1-15 pay roll, the $209,483.76 pay roll, will revert to Uncle Sam as the withholding tax takes effect for the first time.

A total of $25,461.60 will be withheld from pay checks to be distributed July 20. If the present rate is maintained, more than $600,000 will be withheld in a year.
The LMAL Bulletin is prepared and published at the Langley Memorial Aeronautical Laboratory of the National Advisory Committee for Aeronautics, Langley Field, Virginia, in the interest of LMAL employees. Contributions of news and art should be sent to the Editor, in the Administration Building. The telephone number is 381.

Editor. . . . . . . H. Lee Dickinson
Associate Editor. . . . . Ruth Angel
Art Editor. . . . . . Ben Vogel
Reporters . . . . . . LMAL Employees

Keep It Confidential

The National Advisory Committee for Aeronautics was established by Congress on March 3, 1915, charged with the duty of conducting research in the science of aeronautics. The NACA at present is under the direct supervision of a joint Army and Navy Aeronautical Board and has a vital role in the successful prosecution of this war.

It is therefore imperative that employees treat with strict confidence what they see and hear at the Laboratory. Do not allow yourself to become an unwitting pawn of an enemy agent. Always keep in mind that a few carelessly spoken words—either to a friend or to a stranger—might ultimately be the clue to information the Axis has been seeking.

We of NACA, who are doing our bit for the war effort, are bound by law to keep our information secret. But, of far more importance, is the realization that it is our patriotic privilege to further the security of America by observing thoroughly the rules of caution and silence and by making certain that others do likewise.

OUR NEW SLOGAN: Fifteen per cent every pay day in war bonds.

AERONAUTICS: First in war; first in peace

AERONAUTICAL TERMS

Compressibility

GUARD your lips

What you do here
What you see here
What you say here
When you leave here
Let it stay here

CLEVELAND CLIPPINGS

We were beginning to worry about our Cleveland contemporary. Wing Tips ceased publication for two weeks because of the fiscal-year-end rush of work, but it is back in circulation again—livelier than ever.

The arrival of Oscar W. Schey and his Supercharger staff was noted in an interview, in which Mr. Schey predicted revolutionary advances in the supercharger field.

Carl H. Dawson has succeeded Thomas A. Pace, resigned, as Chief of the Auditing Division.

Icing research is being conducted by a new division under the direction of Wilson Hunter, Chief.

AERL is planning a stunt night and talent show July 22. Harry Bowles will serve as master of ceremonies; Fred Bonnie, Jr. will offer the music, and Jack Wells is committee chairman.

Engine Components, Machine Shop, and Electrical are tied for first in the AERL softball loop. Other popular sports in Cleveland are baseball, tennis, golf, and horseshoe tossing.

And the Clevelanders are now whiling away their spare evenings by picnicking and hay-riding.
**LABORATORY QUIZ**

A group of new employees who tried this quiz averaged 75; oldtimers, 90. (Don’t look now, but the answers are on page 4.

1. A native of Springfield, Mass., he was engaged in electrical engineering in Middletown, Conn., before coming to LMAL in 1921. He has held his present position since 1926. In 1939 he was elected vice president of the Institute of Aeronautical Sciences. He’s handy with a rifle. One of his Christian names is Edward. Who is he?

2. There are three NACA laboratories. Which one was started first and in what year?

3. How many days annual and sick leave are earned each month?

4. The letters CAF preceding a numerical rating mean what?

5. On March 3, 1943, the NACA had a birthday. What anniversary was it?

6. If you need passengers to share your car, or if you want to join a ride-sharing combination to and from work, would you dial telephone 298, 313, or 222?

7. Which figure is nearest right? The distance between the East and West areas of LMAL is three, one, or six miles.

8. If NACA buses leave the Administration Building at 9 and 9:15 a.m. for the West area, and you have an appointment in the Warehouse Building at 9:25, which bus would you ride?

9. Identify three of the following five abbreviations: AFR, AWT, TDT, PRT, FRL.

10. What is the greatest investment of our time?

**SCHEDULE OF LMAL PAY DAYS LISTED**

The days of the week on which the 5th and 20th of each remaining month this year occur are listed below. If the normal pay day falls on a Saturday or Sunday, the day on which the Laboratory proposes to issue checks will be shown in brackets:

- **July**: Tuesday, 20; August - Thursday, 5 and Friday, 20; September - Sunday, 5 (Friday, 3, if possible, or Saturday, 4) and Monday, 20; October - Tuesday, 5 and Wednesday, 20; November - Friday, 5 and Saturday, 20 (Friday, 19); December - Sunday, 5 (Friday, 3, if possible, or Saturday 4) and Monday, 20.

Thus, there will be only two pay periods from now to the end of this year which may occur on a day when banks will not be open after Laboratory working hours. They are Saturday, September 4, and Saturday, December 4.

The Administrative Office points out that the only days on which checks may be issued during these two periods when the banks will normally remain open is either on the 3rd or 6th. Since it is not likely that the checks will be ready for distribution two days before the regular pay period, and because it is considered desirable not to issue the checks later than the 5th or 20th, the Saturday dates were selected.

The first September check will come during a three-day period when bank service will not be available. This condition will be a result of the observance by the banks of the Labor Day holiday, Monday, September 6. Every effort will be made to issue the checks on Friday, September 3.

This schedule will be adhered to except when some unforeseen difficulty contrives to delay the checks.

**OFFICE COMPLETED**

This week saw the completion of a brand new office on the second floor of the technical service building - that of Ernest C. Johnson, Chief of Technical Service. Done in soft green and white, it has a modern and streamlined air. It also has a new ventilating system.

Formerly, Mr. Johnson and Edmond C. Buckley, section head of the I.R.L., shared an office across the hall. The old office has been torn down and is now in the process of being rebuilt as Mr. Buckley’s private office. It will probably be completed in two weeks.

Mr. Buckley’s office will have windows looking through into the main work room of the research laboratory in order that he may keep in touch with the work in progress.

**SPECIAL SERVICE**

Laboratory employees who leave the Peninsula for as much as two weeks on NACA business may have the LMAL Bulletin sent to them.

If you desire this service, let us know your new address and the Bulletin will be forwarded.

This will enable those who are away to keep abreast of Laboratory events, and also serve to apprise the absentee of changes in regulations and procedures.

**Stockroom Notes**: Little Giant pipe dies in one-eighth and one-quarter inch sizes for two-inch diameter collets will no longer be available after the present supply is exhausted. Good care of those remaining is requested. The Stockroom Office in the Warehouse has another phone, 384.
**BRAIN BUSTERS MEET JULY 18**

The "Brain Busters" Model Club meets Sunday, July 18, at 8:30 p.m. at the Industrial USO on North King Street in Hampton.

Color movies of various Norfolk contests will be shown. Membership cards will be distributed to all members.

Final plans for the hydro contest in September will be decided upon.

Several "Brain Busters" competed in Joe Boyle's glider contest on July 11. Dick Everett captured first place, Dick Sladek, second, and Ben Cleveland, third.

**Teach First Aid**

Arrangements have been completed for a five-hour class in elementary First Aid to be conducted by Staff Sergeant Morris Skarupsky, U. S. Army Air Force, Medical Corps. This class, under the auspices of the LMAL Safety Board, is offered for the benefit of selected representatives of each shift.

**OUR NEW SLOGAN:** Fifteen percent each pay day in war savings bonds.

**WHAT'S YOUR SCORE**

Answers to Quiz

(Questions on page 3)

2. LMAL was first, started in 1916. Ames Aeronautical Laboratory at Moffet Field, Calif., was begun in 1939 and Aircraft Engine Research Laboratory at Cleveland is slightly more than one year young.
3. Two and one-sixth annual; one and one-fourth sick.
5. Twenty-eighth. NACA was established by Congress on March 3, 1915.
6. Telephone 313. It's a service designed to help you.
7. The distance is listed unofficially at three miles.
8. You would ride the 9 o'clock bus, since it requires 12 minutes to make the trip. The 9:15 would put you there late.
10. War bonds and stamps.

**SOFTWARE LEAGUE HELD UP BY RAIN**

Bad weather forced a postponement of all of last week's scheduled softball games. These games will likely be made up at the end of the season in order not to interfere with games scheduled during the regular season.

All other postponements should be made up during the season and scheduled under the supervision of Jerry Teplitz, member of the Softball Committee. His duty will be to arrange matches so that no more than two games are scheduled during any one day. He may be contacted at the 19-Foot Pressure Tunnel.

All ball players are notified that they may wear spiked shoes from now on, if they desire. This ruling was made to benefit those players who have not and cannot get any other type of sport shoes.

**MILADY OF LMAL:** Slip a fresh flower into your lapel or tuck several of them into your hair. They all look fresh and pretty and some rival your most expensive perfume for fragrance.

**When An Engineer Is Not A Farmer**

The following letter was received at the Laboratory in response to a recent bid schedule:

Your invitation for bid on Leather Fillet received. Your specifications call for lengths of 25 feet. Leather Fillet is not furnished in such lengths. It is put up in bundles of 100 feet of random lengths from 24 inches to 48 inches in length.

Advise if these specifications can be changed, otherwise I cannot furnish a bid.

I never saw a cow 25 feet long, did you?
In a Laboratory as large as LMAL, there are numerous articles lost during a year. Some are of great value and others are trinkets and small items which are sometimes hardly worth the owner going to any trouble recovering them.

Items such as rings and watches, when lost, are usually sought through notices in the LMAL Bulletin. If found, they should be returned to their owners.

However, if items are found and the finder cannot locate the owner, the valuables should be turned over to the Bulletin staff, and efforts will be made to locate the owner.

Among items reported as lost recently are: a nurses' class pin, with "Lewis Gale Hospital" engraved around the top, by Mrs. Virgie Firth Loper, West Area dispensary; and a red-colored fountain pen, in or near the Administration or Technical Service Buildings, by Lee Dickinson, Administrative Section.

"Joe Came Here to Talk for Joe" is the latest theme song at the 19-foot Pressure Tunnel, where it was announced last week that Jeanette Cooper of the section's Mathematics Department is to become the bride of First Lieut. Joseph Greenberrer of Pittsburgh and Langley Field. A custom-made computing machine is being designed to accommodate the new digital impediment (English translation for engineers - large ring that gets in the way)....Mrs. Thelma L. Webster, Chief Clerk's Office, is a proud grandmother. A son, Terry Michael, was born to her daughter, Charlene Vafiadi, in Los Angeles on June 24.

Mary Thorne Tyson, newly arrived member of the reproduction department of L.C.L., has been chosen by Mademoiselle magazine to represent the Woman's College of the University of North Carolina, from which she recently graduated, in their fall career girl issue. Her work is considered that interesting.

Carl Biter of instrument service returned a few days ago from a fishing trip. No one's been able to find out whether he caught any fish or not, but he seems to have caught plenty of sunburn.......

Constance Rush, 16-foot Tunnel, was married on June 22 to J. K. Pegues, who is now serving overseas with the Naval Air Force....Leonard Bartone, Structures, is the father of a daughter, Frances Augusta, born on July 9....Peggy Barber, Warehouse, is vacationing in the Quaker City.

Thanks to Harry A. Barritt, of the West Sheetmetal Shop, for an excellent suggestion. He proposes, since there is virtually every class of sailboat represented at the Laboratory, that efforts be made to conduct an NACA regatta some Sunday soon. If one or more sailing enthusiasts will take the lead in this suggestion, the Bulletin staff will offer its wholehearted cooperation and help wherever possible to make it a success.

Shirley Shaull, Information, is engaged to Walter Bartlett of PRT. They have just returned from a visit with his parents in Manchester, New Hampshire....Indie Taylor, Circulation, wonders why it had to happen to her. The one week she selected for a vacation turned out to be the rain-every-day kind....Margaret Poffenbarger, who transferred in May from LMAL to AERL, has resigned and will accompany a bombardier on a mission to the isle of married bliss.
DON'T SPEED

Two notices of interest to LMAL personnel have been issued from the office of the Base Adjutant.

One cautions all vehicle operators to observe the speed laws of the Base and points out that Military Police will prosecute all violators. "Suspension of permits will be included in the disciplinary action taken and vehicles belonging to civilian violators will be barred from the base."

The other notice calls attention to the fact that the Old Ward Road is closed.

TOURNEY JULY 18

The second NACA Tennis Club tournament of the season will be held on Sunday, July 18, starting at 1 p.m.

Recent rains have soaked the courts and prevented much activity during the past week, but it is hoped that the courts will have dried out by Sunday. In case of rain, the tournament will be started one week later.

The club has recently acquired a supply of "victory" tennis balls, some of which will be awarded as prizes to the winners of the tournament.

DO NOT DISTURB!

Due to the fact that the Laboratory is surrounded by Army personnel, it has been requested that the night shift cooperate with them by trying to leave the field a little more quietly.

The Army has a rigid schedule to follow and the soldiers must have their rest. Employees of LMAL may help in this situation by refraining from singing, laughing, shouting and making other boisterous noises when they are leaving the field.

Buy War Bonds

THE STRONG MAN AT THE CIRCUS

USES HIS HEAD! - DO YOU?

LIFTING WEIGHTS TOO MUCH FOR HIM

HE SIMPLY DOESN'T DO!
THIRTY JOIN MUSIC CLUB

More than 30 persons were present at the weekly meeting of the LMAL Musical Group, which was held on July 20, at the Hampton USO Club. Under the direction of D. E. Brimley and Robert Kamm, and with Miss Mary Noble Angel at the piano, the choral group rehearsed several selections, both old and new.

Some fine mixed chorus numbers are already available from various sources. Robert Kamm reported that sample copies of selected choral music would be procured and presented to the group by the music committee in the near future.

Quite a number of new members made their appearance at this meeting.

The next meeting will be held on Tuesday, July 27, at 7:30 p.m. at the USO Club.

DALE BURROWS TWIRLS FIRST NO-HITTER; THREE TEAMS IN TIE FOR LOOP LEAD

This season’s only no-hitter was turned in last week by Dale Burrows, who twirled his PRT team to a 2 to 0 win over AFR in the NACA softball loop.

Another shut-out was scored July 18 as Structures Research eked out a 1 to 0 victory over West Sheetmetal Shop. It was a pitcher’s duel all the way, each hurler allowing but two safeties.

The 8-foot High Speed Tunnel was handed its first defeat of the season, losing 7 to 3 to Stability Research. This win enabled the Stabilizers to climb into a four-way tie for first place, but its lead was shortlived as 19-foot Pressure Tunnel a few days later blasted them with a lop-sided 23 to 9 count.

Three teams are now tied for first place in the hottest race in years; several other teams are in close pursuit.

All teams and players are reminded that a post-season playoff is to be held in which the top four combines will compete.

Information, Please!

If it is information you want, the Personnel Section is prepared to serve you. T. Melvin Butler, Personnel Officer, announced that his section has inaugurated a new system whereby pertinent information on Laboratory employees will be available.

“The Personnel Section should be considered by all as a clearing house of information. All questions pertaining to personnel can be answered quickly by the Personnel Section”, he said.

Heretofore, several other offices such as duplicating and payroll, have been burdened with the answering of many questions. It is hoped that the new system will eliminate confusion and further greater efficiency.

So, if you want to know “who’s who and where”, call 226.

MODEL GROUP PLANS MEETS

The Brain Busters Model Club has scheduled a series of contests which begin Sunday, July 25, with a catapult glider meet, and concludes with the hydro contest on Sept. 19.

There will be a contest for rubber-propelled models on Aug. 8; scale models, Aug. 22; gas models, Sept. 5. All contests will be held at the La Salle Avenue field, with exception of the scale and hydro meets. The scale contest will be at the Hampton Industrial USO in connection with an exhibition of all types of models and hobbies. Site of the hydro contest will be announced later.

Next meeting of the club will be held Sunday, Aug. 1.

LIST NEW RULE ON ROAD USE

The Back River Road and Old West Gate will be closed to all traffic except to the NACA personnel having business in the NACA buildings on the Yorktown highway, Air Base officials announced.

All other traffic will proceed through the new West gate which is located approximately 100 yards south of the old west gate on the Yorktown highway.

Personnel desiring to proceed from the NACA installations on the Yorktown highway to the main base will go out through the old west gate and enter through the new gate.
The LMAL Bulletin is prepared and published at the Langley Memorial Aeronautical Laboratory of the National Advisory Committee for Aeronautics, Langley Field, Virginia, in the interest of LMAL employees. Contributions of news and art should be sent to the Editor, in the Administration Building. The telephone number is 381.

Editor. . . . . . . . H. Lee Dickinson
Associate Editor. . . . Ruth Angel
Art Editor. . . . . . Ben Vogel
Reporters. . . . . . . . LMAL Employees

".....Makes Jack a Dull Boy"

In Cervantes' "Don Quixote," there is a passage which says, "The bow cannot always stand bent, nor can human frailty subsist without some lawful recreation." That was true in the days of Cervantes; it is doubly true today, when America is engaged in an all-out effort to bring the Axis aggressors to their knees.

Recreation, as never before, should be considered as an essential part of our accelerated lives, not only because we all are giving more of our energies than would normally be demanded, but because our hearts and minds and souls need some succor from the continual reminder that "this is war".

There are innumerable inexpensive pastimes available to Laboratory employees. There are 13 teams in the softball league; the NACA Tennis Club maintains excellent courts and welcomes new members; the Green Cow and the Avions sponsor frequent social affairs; the newly-organized music group offers an opportunity for artistic expression; the waters surrounding the Peninsula afford relaxation through aquatic sports, just to name a few.

It is an established fact that there is a limit to the durability of mind, body and morale without periodical rehabilitation through some such escape as recreation. It has been truly said that, "We will have reached a new height of fallacy if anyone is permitted to persuade us that recreation is a war time non-essential."

Cleveland Clippings

SOME NEW SURPRISE acts were presented at AERL's Stunt Nite No. 2 held July 22 in the auditorium.

IN A CONTEST to encourage blood donors to volunteer, the Instrument Division emerged victorious with 51 per cent of its personnel signing up.

PEARL I. YOUNG, Editorial, has moved into her dream home in the country, with a lake and good swimming in her front yard. Now she promises to settle down and write to some of her old friends at LMAL.

AERL IS SEEKING volunteers to participate in a plant defense organization, including auxiliary firemen and police, air raid wardens, rescue teams and first-aiders. The organization is designed to continue functioning after the war.

AFTER DELAYS occasioned by adverse weather conditions and a revision of plans, construction is under way on AERL's defense-housing project on Riverside Drive. Six homes are expected to be ready for inspection within a month.

A CLEVER CARTOON in Wing Tips shows a young girl asking: "What'sa matter, Daddy, miss the bus?" And Pop answers: "Miss it? I never got to know it."

A PICNIC SHOOT will be sponsored by the Rifle Club July 25 at AERL's picnic grounds, with a softball game as a sideline attraction. Other sporting news shows that Engine Components is leading the softball loop.

MIDSUMMER'S DREAM: "God never did make a more calm, quiet, innocent recreation than angling." (Izaak Walton).

WANTED: A good name for the LMAL Musical organization. If you have a good suggestion, please send it to Miss Bernice Richardson, Administration Building, or H. W. Garris, Flight Research Maneuvers.
**GAS APPLICATION SET-UP CHANGED**

All gasoline and tire applications will be handled through the Chief Clerk's office in the future in accordance with a decision to install a new system whereby an applicant may present his request and receive action without delay.

Clyde Lumpkin, Chief Clerk, offered the following explanation of the change in procedure:

**Complications Arise**

"When the Laboratory's transportation committee was organized, at the request of the OPA, it consisted of several board members who were to meet periodically to review and pass on applications submitted. The board functioned successfully until the numerous complications in today's gas rationing began to make the meetings a painfully slow and foggy process.

"The members took their responsibility seriously and made every effort to approve needed gasoline and to cut or eliminate any unnecessary driving. Their decisions had to be based on information at hand, some of which would be presented by a board member who had talked with the applicant a day or two before. The result was that adequate information was often lacking and approval was delayed.

**Will Speed Service**

"As the complications grew, the board set about finding a solution. It was finally decided to install a system whereby the applicant could present his case and get an approval without delay, which would mean a saving of time to both the employee and the board members. In accordance with this decision, all applications will be handled through the Chief Clerk's office in the future. Where practical, it is desirable to have the applicant present his application rather than send it in."

---

**"PORTER PUBLIC SERVICE CO." IN OPERATION**

Walter A. Porter, Full Scale Tunnel, is really doing his part to help solve the riding problem. He recently hooked the body of a ton and a half truck onto the back of his car and is now carrying a double load of passengers.

Mr. Porter took this unusual step about two weeks ago when the Laboratory employees continued to call him for rides. Despite this new addition, he is still receiving calls that he cannot accommodate.

Usually six or seven passengers ride in the trailer and six in the automobile, so it seems that Mr. Porter is giving the bus company a little competition.

He even has a separation law - men in the trailer and women in the automobile.

---

**LABORATORY QUIZ**

1. Born in New York 51 years ago, he was engaged variously as a congressional reporter, shorthand instructor, and business school proprietor before becoming the first employee of the NACA in 1915. He holds a law degree, and has had his present position with the NACA since 1927. His last name is symbolic of what the Allies hope to achieve in their fight against Axis aggression. Who is he?

2. What is the NACA organization which encourages thrift by accepting your savings deposits, and offers a helping hand by allowing loans to LMAL employees?

3. What are the Christian names of the famous personages in aeronautics after whom Langley Field was named?

4. If you leave your identification badge at home, should you try to report for work by: 1) requesting a badge at the guard houses at the two entrances to Langley Field; 2) going back home for your badge, or 3) trying to slip past the guard?

5. Did the Wright Brothers make their historic flight at Kitty Hawk, Kitty Hawk, or Kitty City, N.C.?

6. Was the Flying Fortress developed by Douglas, Curtis-Wright, or Boeing?

7. Is the flag hauled down for the day at Langley Field at 4:45, 4:30 or 5 p.m.?

8. If you had an item for publication in the LMAL Bulletin, would you dial 318, 381, or 183?

9. Identify the following abbreviations: AA, WAMS, FRM.

10. True or false: Will the purchase of war bonds and stamps help curb inflation, in addition to supplying implements of war to our armed forces?

The third question was missed most often by those who tried this test prior to publication. Answers to quiz on page 4.

---

**CHAR WOMEN SET**

LMAL's char women, whose basic annual salary is $720, are participating 100 per cent in the Laboratory's pay roll allotment plan.

Mrs. Emma McSmith, their supervisor, says each one is subscribing at least ten per cent of their pay in Uncle Sam's securities. "That should be an example to some of the employees in the higher pay brackets who are considering cutting down on their

---

**WAR BOND EXAMPLE**

WHAT'S YOUR SCORE
(Answers to Quiz)
Questions on page 3.
1. John Francis Victory, NACA Secretary, with headquarters in Washington.
2. The NACA Credit Union.
3. Samuel Pierpont Langley, a pioneer in aeronautical research.
4. Request a badge at the guard house. Going back home is both unnecessary and a time-waster; and trying to slip past the guard is risky.
5. Wilbur and Orville Wright made the first flight in an airplane at Kitty Hawk, N.C., in 1903.
6. Boeing. Although all four-motored planes are sometimes referred to as Flying Fortresses, the name is trademarked by Boeing. Flying Fortresses, attached to the Second Bombardment Group of the General Headquarters Air Force, pioneered at Langley Field, leaving from here on several much-publicized long-range flights.
7. 4:45 p.m.
8. 381. Please remember the number. We depend upon Laboratory employees for contributions.
10. True; and don't forget our new slogan: Fifteen percent each pay day in bonds.

NEED PERMISSION TO USE AUDITORIUM
The auditorium on the second floor of the Administration Building has been utilized on several occasions in the past several weeks by individuals or groups who failed to obtain prior permission, it was pointed out by Laboratory officials.

Attention is called to the regulation which stipulates that those who desire using the auditorium must apply for permission at the receptionist's desk in the south wing of the Administration Building.

SOFTBALL STANDINGS

<table>
<thead>
<tr>
<th></th>
<th>Won</th>
<th>Lost</th>
<th>.Pct</th>
<th>Games Behind</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.</td>
<td>8-foot High Speed</td>
<td>6</td>
<td>1</td>
<td>.857</td>
</tr>
<tr>
<td>1.</td>
<td>Full Scale</td>
<td>6</td>
<td>1</td>
<td>.857</td>
</tr>
<tr>
<td>1.</td>
<td>Structures Research</td>
<td>6</td>
<td>2</td>
<td>.750</td>
</tr>
<tr>
<td>1.</td>
<td>Stability Research</td>
<td>5</td>
<td>2</td>
<td>.714</td>
</tr>
<tr>
<td>5.</td>
<td>West Sheetmetal Shop</td>
<td>3</td>
<td>3</td>
<td>.500</td>
</tr>
<tr>
<td>6.</td>
<td>Propeller Research</td>
<td>4</td>
<td>4</td>
<td>.500</td>
</tr>
<tr>
<td>5.</td>
<td>West Sheetmetal Shop</td>
<td>4</td>
<td>4</td>
<td>.500</td>
</tr>
<tr>
<td>9.</td>
<td>16-foot High Speed</td>
<td>2</td>
<td>4</td>
<td>.333</td>
</tr>
<tr>
<td>10.</td>
<td>West Machine Shop</td>
<td>2</td>
<td>6</td>
<td>.250</td>
</tr>
<tr>
<td>11.</td>
<td>Air Flow Research</td>
<td>2</td>
<td>6</td>
<td>.250</td>
</tr>
<tr>
<td>12.</td>
<td>Tank No. 1</td>
<td>1</td>
<td>7</td>
<td>.125</td>
</tr>
<tr>
<td>12.</td>
<td>Flight Research Maneuvers</td>
<td>1</td>
<td>7</td>
<td>.125</td>
</tr>
</tbody>
</table>

DIVING WHEN THE TIDE IS OUT, PROVIDES SUCH SAD CONCLUSIONS JUMPING OFF OF PLATFORMS HIGH INSURES FRACTURES AND CONTUSIONS

Jumping down may look like enthusiasm to you, but it will look like just another sprained ankle to the doctor!

National Safety Council
NACA Nine Trims Langley Medicos; To Play July 29

In a regularly scheduled game of the Langley Field Post baseball league, the NACA club this week trimmed the Medical Corps 3-1. Claude Hart pitched winning ball for the laboratory team, limiting the medical men to but two hits and one run while his teammates were gathering four hits for three runs.

The win brought the NACA team average up to .500 with four wins and the same number of defeats.

The next game for the NACA team is scheduled for Thursday, July 29. Employees of the laboratory are invited to attend these games which are played on the Post baseball field located at the beginning of the road leading to the West Area. Employees who have had experience playing ball are invited to try out for the team. Anyone wishing to do so may contact Len Bartone, Structures Research.

The present NACA roster includes: Len Bartone, manager; George Zender, John Houbolt, Structures Research; Claude Hart, Full Scale Tunnel; Henry Schatz, Carl Cecil, Bob Little, Mike Panze, West Sheet Metal; Joe Robbins, Walt Robbins, West Purchase; Ira Ramsey, Joe Dodson, Engineering Section; Pete Koryciinski, Paul Cartobiano, E. O. Johnson 16-foot Tunnel; Dave Haynes, Technical Service; and Ben Johnson, Air-Flow Research.

K. L. Wadlin, one of the leading researchers in Tank No. 2, was recently rewarded (?) for his efforts by being appointed supervisor of subprofessional personnel (mostly feminine). Mr. Wadlin's new duties compel him to officially reside, during working hours, in a private office surrounded by ten beauteous charges. By virtue of his beaming personality, Mr. Wadlin was immediately dubbed "Dean of Women" and a notice to that effect has been placed upon his office door. The goodwill hour of radio popularity has nothing on the 8-hour goodwill session now going on in the Dean's office.

Lillie King Chambers, High Speed Tunnel, will say au revoir to LMAL next month to marry Joseph A. Kenney of Sanford, Fla. Mary Lou Wimbish, Tank No. 1, is back from a visit to her home in Greensboro, N.C. Anna Cumming, Apprentice Administration, spent a recent week-end in Richmond. Mr. and Mrs. Joseph Lada, West Area Machine Shop and the Apprentice Administration, respectively, are vacationing in Clarksburg, West Virginia. Kay Thomason, TDT, is back after a sojourn in New York.

Twenty-four-year-old Willard D. Boothby of Woodbury, N. J., formerly of LMAL, rated a brief writeup in United Aircraft corporation's monthly magazine, "The Bee-Hive." Boothby, who learned to fly in light planes while an aeronautical engineering student at Purdue, is test pilot for the Vought Chance Corsairs. He served for a time as a flight instructor at the College of William and Mary and also worked in the Glenn L. Martin Experimental department. Vita Nickels, Electric, and Helen Carlberg, Reproduction, are off to visit New York. The NACA Softball League is indebted to Frank Read for a good grass-cutting job on the diamond in Hampton.

Pauline Goloskie, Cost Office, and Dickie Creech and Nancy McCrory, Circulation, are taking it easy this week at Virginia Beach. Peggy Gildner has said goodbye to her friends in the Stability Office. She will soon be Mrs. Donald Coale. Her husband-to-be is in the Army Air Corps in California. Arthur Carter, Tank No. 2, recently received a commission as junior grade lieutenant in the Navy.

Tom Hulcher, of the WPB, visited the Laboratory recently and met Tom Hulcher, Apprentice Administrator. They are no kin. Bill Hernandez, Office of the Engineer-in-Charge, is back at the Laboratory, minus his tonsils which he left at a local hospital. Francis Hillsdon, Instrument Service, was passing out cigars in a big way shortly after July 1. Reason: an 8 pound boy just joined the family circle. Dorothy Cole, secretary for the Instrument Research department, is spending a ten-day vacation at Ridgecrest, N.C. "What step?" Lester Reynolds, Instrument Service, wants to know. It seems he broke his ankle the other day stepping off his porch and is now recuperating at home.
Tennis Tourney Gets Under Way

The NACA Tennis Club tournament planned for July 18 was postponed because of the wet condition of the courts. Actually, the courts were playable, but the thunderstorm of the previous night had obliterated the lines and softened the surface. Several players were on hand, however, and played some exciting matches in spite of this handicap.

Select Opponents

In order to get the tournament started, it was decided by club officials to select by lot the opponents for the elimination matches. The following pairs of players were chosen as opponents:

- Edwards and Newby
- Brigham and Hagginbothom
- Erwin and Katzoff
- Phillips and Swanson
- Brandeis and Feldman
- Migotsky and Schuette
- Nielsen and Kandrowitz
- Lockwood and Dunlap
- Toll and Liddell

 Invite More Participants

Some of the matches have been played; the remainder may be played off any time during next week. Any additional players wishing to enter the tournament may do so by contacting Bob Swanson.

The NACA courts are located near Langley Field road, and may be conveniently reached by players returning from work. It has been suggested that riding combinations be worked out among interested club members.

Requests Materials

A spokesman for the Brain Busters requested that, if there are any model builders who have rubber, cement, balsa or other supplies on hand and do not plan to build soon, please help out those who are active by making the materials available.

NEED COOPERATION TO STOP THEFTS

There have been several cases of theft of Government property and of personal property at LMAL in recent weeks. The fact that this practise is increasing makes it necessary to ask the cooperation of the entire staff in putting an end to it.

You can all help by being less careless about leaving tools and personal effects lying around in locker rooms, washrooms, etc. when there are strangers present in your various activities. As a matter of fact, carelessness in this respect is definitely encouraging people to yield to temptation. If you make it a point to take better care of your property and that charged to you, we will get rid of most of the losses.

Many Losses Recovered

Many of the losses have been recovered, at the necessary expense of considerable time on the part of people who should be putting their time on work in connection with the war effort. The miscreants have so far been treated with leniency, in some cases merely having been dismissed from their jobs. Inasmuch as the thefts are increasing, it will be necessary in the future to punish guilty persons to the full extent of the law. The Federal Code stipulates very heavy penalties for the theft of Government property and theft of private property on a Government Post, and may well lead ultimately to Federal imprisonment.

F.B.I. Investigates

The fact that LMAL is on a Government Post necessitates that thefts be investigated by the F.B.I. When once a case is put in their hands the disposition of the guilty party is entirely out of the hands of the administrative officials of the NACA and will be prosecuted by the Federal

REQUESTS STAFF OBSERVE "CLOSED" SIGN IN CAFETERIA

That six-letter word, "closed", which you sometimes see hanging at the entrance to the East Area cafeteria, means just what it says, according to a reminder from the NACA Exchange.

It is necessary, Exchange officials say, to close the cafeteria from 8:30 to 9:30 a.m. and from 1:30 to 3:00 p.m. for the purpose of cleaning.

Many employees have been ignoring the sign and are insisting on service during these hours. Effective immediately, the hours of closing will be observed by all.

The Exchange also points out that the delinquent account list continues to grow. This not only causes unnecessary bookkeeping, but lowers the credit standing of employees involved.

A plea was issued by the Exchange for cooperation in speeding up the lunch line. "Make up your mind what you want when you approach the steam table. Have your credit card or money ready as you approach the cashier", an Exchange official suggests.

LOST: A hot plate, property of I.C.L., has disappeared from the Hangar; Inventory No. 14496; disappeared from desk drawer of John A. Bergbom, Head Storekeeper of Section.

LOST: One 10 inch slide rule in black cardboard case; Inventory No. 14496; disappeared from desk drawer of John A. Bergbom, Head Storekeeper of Stock Section.

Government as they see fit. Discharge from duty and a bad record become only a part of the story from then on.

So let's forestall a bad business before it gets started by taking better care of our tools and personal effects.
Grover Loening, consultant on aircraft of the War Production Board, has been confirmed by the NACA as chairman of its Subcommittee on Helicopters which is organized under the NACA Committee on Aerodynamics.

**Learn to Fly**

Born in 1888 in Bremen, Germany, where his father was American consul, Mr. Loening developed an enthusiasm for aeronautics in early youth. In his college days he was a member of the Columbia University Aero Club. He learned to fly in 1911, when he was engineer for the Queen Aeroplane Company, Fort George Hill, New York. In 1913 he became assistant engineer to Orville Wright and in 1914 was appointed aeronautical engineer in the Signal Corps, at that time the branch of the Army having jurisdiction over aviation.

Subsequently, he was associated with the Sturtevant Aeroplane Company, The United States Air Production Board (1917), the Loening Aeronautical Engineering Company, Curtiss-Wright Corporation, and the Grover Loening Aircraft Corporation, and has served as consultant for the Grumman Aircraft Corporation, the United States Maritime Commission and the Platt-LePage Aircraft Corporation.

**Receives Awards**

Mr. Loening has received a number of awards, including the Wright Trophy in 1921, the Collier Trophy in 1928, the Distinguished Service Award from the War Department for the design and completion of the Loening two-seater fighter.

(See page 4)

**Buses to Operate More Frequently**

Laboratory buses begin a new schedule of operation Monday, August 2.

Vehicles traveling from the East to the West Area; from the West to the East Area; and those operating on the East Area circuit will leave every ten minutes during most of the day.

The complete schedule may be seen on page 3.

**20-MPH Speed Limit Includes Both Areas**

The 20-mile-per-hour speed limit on the Langley Field reservation includes both East and West Areas, and Laboratory employees are cautioned to observe this regulation.

Some employees traveling in the West Area have been given warnings by Base military police for exceeding the limit. Included in disciplinary action against violators will be the suspension of permits, and the barring from the Base of cars belonging to civilian violators.
The LMAL Bulletin is prepared and published at the Langley Memorial Aeronautical Laboratory of the National Advisory Committee for Aeronautics, Langley Field, Virginia, in the interest of LMAL employees. Contributions of news and art should be sent to the Editor, in the Administration Building. The telephone number is 376.

Editor . . . . . . . H. Lee Dickinson
Associate Editor . . . Ruth Angel
Art Editor . . . . . Ben Vogel
Reporters . . . . . LMAL Employees

'We've Got a War to Win'

On a wall of the Bulletin Office there hangs a card which says: "Let's fight the enemy - not each other. Let's be patient, be considerate, keep smiling, and carry on; we've got a war to win!"

We believe in the message conveyed on that card - because to practice what it preaches means not only an asset to personal behavior, but a boon to the Laboratory's war program.

We realize that it takes more than a good disposition to win a war. But what better characteristics could an individual display than patience and consideration, topped with a smile. Certainly such qualities make the work of us all more pleasant, and help to facilitate friendly collaboration among staff members whose efforts are directed toward making allied air power the strongest in the world.

In times like these an occasional burst of ill temper is perhaps pardonable. But if and when it occurs, let's determine that it will be the exception rather than the rule.

AERONAUTICS: First in war; first in peace

CLEVELAND CLIPPINGS

DURING JUNE, 74 AERL employees voluntarily gave 440 hours of overtime work to further the war effort. Those who gave the most time were Elizabeth Baillit, C. E. Burke, and J. W. Gibbs.

AERL SET a new record for the number of donations at a single visit of the Red Cross mobile blood donor unit. One hundred and fifty-five pints were given by staff members.

WING TIPS CARRIED an editorial last week entitled, "Congratulations, LMAL," in which were mentioned the citations received by the Langley Laboratory for its research on the A-26 and the Hughes-Kaiser cargo plane.

A CLIMBAKE is being plotted by the National Advisory Committee for early September and AERL night will be held at the Lakewood Little Theater on Sept. 23.

LOW-SCORE PRIZE money in AERL's first golf tournament was divided between Charles Sullivan and Armetta Godfrey as one team, and Mrs. Hampton Foster and Austin King as the other. Low-putting score was made by Mary Ruth La Voo and William C. Paris. Consolation for high score went to Dick Godfrey and Eleanor Martin.

NACA PINS have gone on sale at AERL.

AND HERE are two items from the Wing Tips column, "Lobby Lines" "Frances L. Stansell (Engine Research) and Oliver J. Haas (Electrical) deciding on a life partnership and being transferred to LMAL.

... "Betsy Evans (F and L) entertaining her mother from Hampton, Virginia."

MOVES: The Budget Office has been moved from the second floor of the Administration Building to the Warehouse Building in the West Area. The new telephone number is 337.
**NEW LAB BUS SCHEDULE EFFECTIVE AUG. 2**

A new Laboratory bus schedule goes into effect Monday, Aug. 2. It has been suggested that members of the staff keep the following schedule for future reference:

Buses will depart from the Administration Building for the West Area circuit as follows:

- 6:20 a.m.
- 6:45 a.m.
- 7:10 a.m.
- 7:30 a.m.
- 7:50 a.m.

and every ten minutes thereafter until 5 p.m. The last bus leaves at 5 p.m.

After leaving the Administration Building for the West Area, these buses will arrive:

- Office and warehouse building—Approximately 8 minutes later.
- Sixteen-foot tunnel—Approximately 10 minutes later.
- Buses will depart from the 16-foot tunnel for the East Area circuit as follows:

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>6:30 a.m.</td>
<td>1. Full Scale</td>
</tr>
<tr>
<td>7:00 a.m.</td>
<td>2. 6' High Speed</td>
</tr>
<tr>
<td>7:20 a.m.</td>
<td>3. Stability Research</td>
</tr>
<tr>
<td>7:40 a.m.</td>
<td>4. West Sheetmetal Shop</td>
</tr>
</tbody>
</table>

and every ten minutes thereafter until 5:10 p.m. The last bus leaves the West Area at 5:10 p.m.

After leaving the 16-foot tunnel for the East Area, these buses will arrive at the rear of the Administration Building ten minutes later.

Buses will depart from the rear of the Administration Building for the East Area circuit as follows:

<table>
<thead>
<tr>
<th>Time</th>
<th>Activity</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:30 a.m.</td>
<td>Full-scale Tunnel—Approximately 2 minutes later.</td>
</tr>
<tr>
<td>7:50 a.m.</td>
<td>Spin Tunnel—Approximately 3 minutes later.</td>
</tr>
<tr>
<td>8:10 a.m.</td>
<td>19-foot Pressure Tunnel—Approximately 4 minutes later.</td>
</tr>
</tbody>
</table>
- Hangar—Approximately 5 minutes later.

**FORMING NACA SOFTBALL TEAM**

An NACA softball team is being formed and games will be booked with various city league and army teams. Players interested in trying out for the team may notify their respective team captains.

Meanwhile, the NACA softball league continued a full week of activity, despite the heat which was no match for the sizzling game between Full Scale and Structures played July 23. For five innings Structures held the upper hand, but Full Scale scored eight runs in the sixth and won 10 to 7.

In other games played during the past week, PRT defeated Erection Shop, 5 to 2; West Sheetmetal engulfed Flight Research Maneuvers, 24 to 3; and 8-foot High Speed toppled Tank No. 1, 5 to 2.

**SAVE SOME OF YOUR LEAVE FOR A ‘RAINY’ DAY**

Saving some of your leave for an emergency is just as important as saving money for a "rainy day", according to Laboratory officials, who stress the importance of having some annual and sick leave accumulated as one means of cutting down on the necessity for taking leave without pay.

Not only does leave without pay burden the payroll office with added book work, it is considered a bad practice except in cases where it is justified by prolonged illness or similar emergency.

Requests for leave without pay must be submitted to the office of the Engineer-in-Charge for prior approval.

But officials emphasize that, if you have only a few days leave to your credit, try building the total up; it's for your benefit and it helps the war effort.

**GROUP GETS COPIES OF CONSTITUTION**

The choral organization of the LMAL Musical Group held its regular meeting at the Hampton USO Club on Tuesday, July 27.

Robert Kamm directed the first part of the rehearsal. After a short interval, Miss Mary Noble Angel took over the directing for the remainder of the practice.

During the business meeting that followed, Howard Garris submitted copies of a constitution and a set of by-laws for consideration by each member and for discussion by the entire group at the next meeting. The group is still without a name, though an effort has been made to provide one.

The next meeting of the group is to be held at the USO Club on August 3 at 7:30 p.m.

Buy War Bonds
**American Research Facilities Praised**

(From page 1)

Chief engineer of the Bristol Aeroplane Co. and designer of a long line of successful Bristol engines up to the current Hercules sleeve-valve radial, also has made a very favorable report on U.S. aviation on his return from America.

"Extracts from Sir Roy's report have now been released, and he writes with enthusiasm of production methods, 'magnificent tooling', and the tremendous strides the U.S. is making technically because 'her research laboratories are the finest in the world.'"

A typewriter deserves a place apart from other mechanical devices. It can be almost human in response to a good operator and good treatment.

**Lake Will Be Scene of Hydro Contest**

The Brain Busters Model Club has decided to conduct its hydro model contest September 19 on a lake located between the traffic circle on the Langley Field Road and the Yorktown highway. The club's next contest will be held on August 8 for rubber-propelled models. There will be cash prizes for first, second, and third places.

Frank Cisco won first place in the glider contest held Sunday, July 25, with a flight of 7 minutes and 22 seconds. Frank Parmenter, whose entry stayed aloft for 3 minutes, 45 seconds, won second, and Carl Birkel was third with a flight of 3 minutes, 49 seconds.

The club will meet Sunday, August 1 at 8:30 p.m. at the Industrial USO Center in Hampton.

Announcement has been made that the club has a supply of balsa wood to be distributed to members soon. Brain Busters have been requested not to request this wood unless it is absolutely needed at once for continuance of their model building program, since the supply is limited.

**The Doctor Is Waiting for Fools Like Me**

Who Take Off Goggles Because They Can't See

DURING 1940 and 1941, unnecessary eye accidents, as illustrated, robbed America of nearly 20,000,000 mandays for providing war supplies.

National Safety Council
CERTIFYING OFFICER TO SERVE EMPLOYEES

E. McKinley Hutton, Personnel Section, has been made a certifying officer of the National Housing Agency.

Laboratory employees who need certification regarding their status as national defense workers in order to obtain housing on the Peninsula may apply to Mr. Hutton. His telephone number is 226.

Prior to Mr. Hutton's appointment, LMAL employees found it necessary to seek certification by applying to the War Housing Center in Newport News. Certification is required for the rental of houses constructed specifically for war workers.

FOUND. Pocketbook, in front of Administration Building. Owner may contact Mrs. Atkins, Circulation.

Finish Second Round Matches This Week

Second round matches in the NACA Tennis Club tournament, being played on the club's courts near the traffic circle, must be completed before Aug. 8, club officials announced. Those not finished on time will be forfeited.

First round matches were played during the past week. Winners will receive cans of tennis balls as prizes.

It was pointed out by club officials that tennis balls may be purchased by members for one dollar per can of three balls. The club obtained five dozen balls this year, one-third its usual stock.

PRINTER'S INK: Fred Rector, who does such a fine printing job on the Bulletin, will marry Thelma Mears, of Newport News, in Richmond, August 1.

SENDING BULLETIN TO SERVICE MEN

Staff members of the Photo Lab have inaugurated a fund to be used for mailing copies of the LMAL Bulletin to former employees of the section who are now in a branch of the armed services.

Purpose of the plan, it was explained, is to keep former employees acquainted with activities at the Laboratory.

A container has been placed in the Photo Lab office and staff members drop in spare change to be used in supplying postage for sending the papers.

LOST: Ten-inch slide rule, in LMAL bus traveling from the West to the East Area Monday afternoon, July 26. Finder please communicate with Louise Sargent, telephone 337.

Life At The Laboratory

Selective Service had a supper shower for Charlotte Young last week at the home of Tom and Lenore Hulcher. Charlotte is now counting the days until August 14, when she will become Mrs. James Delano. Highlight of the program was a rendition on Tom Hulcher's accordion by Marijean Saunders, Willy De Vine, and Elizabeth Scott. Milly furnished the power and "Scottie" served as a prop for Marijean, the music maker.

"Chuck" Daniels and Bruce Amole, who finally succeeded in sending their wives off for a vacation, are moving out furniture and putting away the china and crystal for a Tank stag party Saturday night, July 31. Such a good time is anticipated that the Sunday softball game has been postponed. Connie Pegues is leaving the 16-foot Tunnel to join her husband, who just returned to Seattle, Wash., from overseas duty with the Naval Air Force.

Staff members of Tank No. 1 are wearing sun glasses since Mary Bailey began sporting that big diamond. She recently became engaged to Paul Hill, PRL. Charlie Garrison, Tank No. 1, feels like Dan Cupid. Not long ago Scotty Bowlin, WAMS, accompanied Charlie to his home in Burlington, N.C., where Charlie introduced him to Marie Mann. Scotty and Marie will be married in October. Emma Knight, PRL, has departed the Laboratory to marry Ensign W. T. Atchley, stationed at the University of California at Los Angeles.

Elizabeth Saunders, Maintenance, is back at work after a month's illness.

Israel Taback, Instrument Calibration, is the father of a new "junior engineer," Max Stefan, born on July 13. James McBrayer, who recently left the Purchase Office to join the Air Corps, is in the college training department and is stationed at the University of Chattanooga. Recent visitors to LMAL included T. N. McComb and Frank Friswold, of AERL, and Harold W. Harrison, Washington Office and formerly of LW Purchase. Rufus Penny, Instrument Service, is back at work after a two-week illness.

Among the vacationists are Kenny Shupe, Reproduction, in Omaha, Neb.; Dexter Patter and Don Reisert, PRL, in Rhode Island; Chester Neger, PRL, in New York; James E. Ferguson, W. A. Stockroom, in New York where he hopes to rest his foot on some good ole brass rails; "Buck" Barber, Purchases, in the Old North State; Virginia Tucker, head of the Computing Section, at Nags Head, N.C. Returned vacationists include Joe Shortall, Free Flight, from Virginia Beach; John Munick, LW Purchase, from Richmond; Bernard Maggin, Free Flight, from Detroit.

The Tank conducted its monthly banquet meeting last week. A technical discussion of a recent report was led by Joe Bell, Howard Zeck, and Charlie Garrison. Cliff Link recently became engaged to Margie Furgeson.
Accidents Are Avoidable

(By Harry N. Henry)

Three hundred and twenty-nine times you may reach across the table in your best boarding house manner and with fork poised, spear the last remaining pork chop. Three hundred and twenty-nine times you may, with relative impunity, convey that pork chop to your plate. The three hundred and thirtieth trip will, however, result in a stained tablecloth and complete disgrace. So runs an analogy of statistics based on data available on the frequency of potential-injury accidents.

Research shows that in a unit group of three hundred and thirty accidents of the same type, three hundred result in an injury, twenty-nine in minor injuries and one in a major lost time injury. Although it would appear that the laws of chance thus provide a safeguard, it is obvious that no individual can foretell whether he will fall a victim to his misdeeds at the first, last or some intermediate unsafe act. REPEATED VIOLATIONS OF SAFE PRACTICES WILL INEVITABLY LEAD TO INJURIES: REPEITION OF UNSAFE ACTS SHOULD THEREFORE BE AVOIDED.

The three hundred and thirty accidents show that an injury is one of five related factors which include:

1. Heredity, environment.
2. Fault of person.
3. Unsafe act, physical or mechanical hazard.
4. Accident.
5. Injury.

The personal fault may be blamed on heredity or environment; the unsafe act is the result of a personal fault; the accident is caused by the unsafe act and of course, injury may follow the accident.

Controls Hazards

The Laboratory cannot control inherited carelessness, recklessness or other undesirable traits of character, nor can the environment of any employee be regulated to minimize personal faults which may be acquired. The Laboratory does, however, effect considerable control over the physical or mechanical hazard and unsafe act. It is interesting to note that 98 per cent of all accidents are preventable and of that percentage, 10 per cent are due to unsafe mechanical or physical conditions. THE REMAINING 98 PER CENT ARE CAUSED BY UNSAFE ACTS OF PERSONS.

The first point of attack in an accident prevention program is against unsafe mechanical or physical conditions. All proposed buildings, structures and other installations are therefore reviewed by the Safety Board which eliminates, as far as possible, the potential sources of accidents and provides for inclusion of all practical safety precautions. The Board further is constantly recommending additional guarding, redesigning, and relocation of existing equipment, procedures and structures.

The second point of attack is against the unsafe act. Positive control of this factor is effected by Safety Education and enforcement of supervisory control. These most important features are delegated to the shop superintendent.

Employee Has Big Part

In his own sphere the individual employee has a certain responsibility - he should report unsafe conditions to the superintendent and he should see that other employees do not interfere with his work in such a way as to create accident possibilities. The employee's contribution may be small individually but collectively it is of great importance.

BULLETIN OFFICE IN NEW LOCATION

The Bulletin Office has been moved from the first floor of the Administration Building to the second floor, in room 204 formerly occupied by the Cost Office.

Our new telephone number is 376. We are still in the market for contributions. If you have an item of interest, phone it in or send it through circulation. We appreciate your cooperation.

LMAL Has Many Visitors In A Year

During the past fiscal year there were 1,759 LMAL visitors registered, exclusive of salesmen and applicants for work. The present fiscal year got off to a good start with 170 visitors during July.

Government agency visitors totalled 864, the largest visiting group during the year. There were 651 visits from representatives of 80 aircraft and related industries; 137 from staff members of the Washington Office and other NACA laboratories; 40 from foreign countries, and 28 from educational institutions.

Twenty-five visits were made by officials of England, 13 from Canada, and one each from Brazil and Russia. The educational institutions represented by visitors included, among others, MIT, California Institute of Technology, Stevens Institute of Technology, and the University of Virginia. Many representatives of the aircraft industry remained at the Laboratory for extended periods.

Among the visitors to LMAL was, "Believe It Or Not", Robert L. Ripley, who came here to see Dr. George W. Lewis, Director of Aeronautical Research. He was here on Jan. 5.

ALTER KITCHEN OF CAFETERIA

Alterations to the Administration Building Cafeteria kitchen have been started. Plans call for expansion of the kitchen into what was originally the private dining room.

The additional space will make it possible to provide a 10' x 10' walk-in ice box for storing food. Plans also call for installation of an electric range, additional sinks, and work tables.

(See page 3)

West Area Receives Gas Board Service

The Laboratory Transportation Committee now has a representative in the West Area who will review gas, tire and similar applications of employees in that area.

In order to facilitate action, applications may be presented to Arthur Samet in the Cost Office, located in Warehouse Building.

OUR NEW SLOGAN: Fifteen per cent in war bonds each pay day. We've almost reached our goal.

(See page 3)

MORE ALTOS, BASSES NEEDED BY GROUP

It never fails! Come Tuesday night, it rains or else it is scorching hot. If you like to sing, however, nothing short of being on night shift can keep you away, for the meeting of the LMAL Musical Group on August 3 was well attended and much enjoyed by all, with several new members coming into the organization. The greatest need now is more altos and basses.

The group missed Mary Noble Angel, who was one of those on night shift; but Don Brimley directed his share and hers, too, with Marvin Saunders at the piano.

At the business meeting that followed the rehearsal, it was agreed that sufficient copies would be purchased of several new selections which

(See page 3)

NEW NUMBERS: Seven frequently used telephone numbers have been changed. The new numbers: Engineering Section Office, 350; Chief Clerk, 377; Machine Shop (East Area), 383; Personnel Office, 386; Personnel Office, Leave, Bonds, and Pay Roll, 387; Maintenance Office, 388; Electrical Office, 389.

LMAL MAINTAINS PACE IN WAR BOND PROGRAM

LMAL may continue to point with pride at its "Minute Man Flag" in the East Area Cafeteria, according to a report from the Washington Office which shows that the Langley Laboratory was investing in June a total of $11,53 per cent of its pay roll in bonds.

LMAL led all other NACA laboratories, including the Washington Office, in the per cent subscribed; and topped the other laboratories in the per cent of participation, although the Washington Office shaded Langley in this respect, 97.6 to 97.37 per cent.

LMAL is now only 3.47 per cent short of its new goal of 15 per cent invested every pay day. All but 2.63 per cent of the employees are participating in the allotment plan.

(See bond table on page 5)
The LMAL Bulletin is prepared and published at the Langley Memorial Aeronautical Laboratory of the National Advisory Committee for Aeronautics, Langley Field, Virginia, in the interest of LMAL employees. Contributions of news and art should be sent to the Editor, in the Administration Building. The telephone number is 376.

Editor .......... H. Lee Dickinson
Associate Editor .. Ruth Angel
Art Editor ...... Ben Vogel
Reporters ...... LMAL Employees

For Dear Ole NACA

Whenever we hear the lilting strains of the Army Air Corps song, it prompts us to wonder why the NACA, an organization of 4,000 persons, does not have a song of its own. There is no better way of building morale and of bringing the members of the group closer together in one common bond. We submit this thought to the Laboratory in the hope that some talented staff member might take up the challenge and try his or her hand at composing.

NACA Fashions Airplane Of The Future

Excerpts from an article by John A. McWethy, on the NACA, which appeared in The Wall Street Journal, July 31:

"The airplane of the future is being fashioned in the research laboratories" of the NACA.

"Backbone of basic aeronautical research in this country, NACA is devoting all its efforts now to solving urgent military flying problems"....

"When a new aircraft is required, the Army Air Forces or the Navy Bureau of Aeronautics calls on NACA for fundamental data and advice"....

"Speed of war planes, for example, has been stepped up many miles an hour as a result solely of scientific streamlining, based on wind tunnel studies of the Langley and Ames Laboratories".

Nearly completed at Cleveland is "the world's first altitude wind tunnel that will produce a 500-mile-an-hour wind and simultaneously create temperatures of 67 degrees below zero and simulate rarefied air encountered at 50,000 feet altitude."

"The largest wind tunnel in the world is under construction at Moffet Field. It will have an air stream 80 feet wide and 40 feet high."....

"Another new device is the impact basin at Langley Field for investigating the loads encountered in the landing of flying boats.".....

The Committee maintains "one of the most complete technical libraries in the world."

"Dr. George W. Lewis, Director of Aeronautical Research, believes the next great advance in improving speed, range, and usefulness of aircraft will come from a better means of aircraft propulsion."

"One of the most important developments after the war will be in cost reduction" is the opinion of Edward R. Sharp, AERL Manager.

Development of the NACA cowling "has been a major contribution to the present superior performance of American aircraft and, measured in terms of money alone, has saved many millions of dollars more than the entire appropriation for the NACA for the 28 years of its existence."

CLEVELAND CLIPPINGS

A PROGRAM of classical music, featuring Fred Bonnie Jr. and the AERL orchestra, will be presented Aug. 12. Sponsors hope to find one or more voices for the program among the AERL staff.

MORE THAN 100 persons responded to the recent call for volunteers to serve in a plant protection program, it was announced by Charles A. Herrman, Defense Coordinator.

JOHN H. BREISCH, of LMAL, who was assigned to supervise the drive propeller assembly and installation in the Altitude Wind Tunnel, is back at LMAL, but will return to Cleveland soon to finish his job at AERL.

AERL EMPLOYEES who donated blood in a recent Red Cross campaign in Cleveland received the following communication from the official in charge: "You helped contribute to the highest total we have reached in the Cleveland area for any one week."

BETSY SPURR suggests the organization of a drama group. Harry Bowles has offered his help. Those forming a nucleus include Virginia Duncan, Mildred Hipshur, Jean Hoffer, Freddie Nichola, Pat Spurr, Robert Spurr, Burt Stevens, Helen Townsend, Ruth Vanderhoff, Arthur Varian, Jean DeWitt, and Pearl Young.

SPORTS: The recent Rifle Club picnic drew 150 persons. Shooting prizes went to Ray Griffin, June Nordquist, E. Hudnell, Evelyn Eicker, A. E. Bittner, and Ernie Neuhoff; Leading the softball loop with a perfect percentage are Engine Components and Supercharger No. 2.

NACA TAKES IT: The NACA baseball team took it on the chin in its last game, against Second Air Base in the Langley Field League, 10 to 4. Claude Hart pitched for the NACA and Willie Miller, brother of Cincinnati's Eddie Miller, twirled for the Second Air Base.
MR. KNIGHT DIES; FORMER AWT HEAD

Montgomery Knight, former head of the Atmospheric Wind Tunnel at LMAL, died July 26 at an Atlanta hospital. He was director of the Daniel Guggenheim School of Aeronautics of Georgia Tech, and was well known for his development and design of helicopters.

Heads AWT Three Years

Mr. Montgomery was head of the AWT from 1927 to 1930. He became the first director of the aeronautics department of Georgia Tech when it was established in 1930. He had also served as a member of the aeronautics department of the Massachusetts Institute of Technology.

A native of Lynn, Mass., Mr. Montgomery graduated from MIT in 1922 and later attended graduate schools of Johns Hopkins and Harvard Universities. The 42-year-old scientist was an associate fellow of the Institute of Aeronautical Sciences, a member of the Georgia Engineering Society, and a member of the advisory council of the State Engineering Experiment Station at Georgia Tech.

Marries Norfolk Girl

He is survived by his wife, the former Miss Emily Millner of Norfolk, a daughter, two sons, his parents, a sister, and two brothers.

ALTER KITCHEN (From page 1)

These alterations will make it possible for the kitchen to handle efficiently the large load imposed upon it as a result of the large increase in LMAL Personnel.

This work is all being done by Maintenance Personnel and it is planned to schedule the operations in such a manner as not to interfere with the operation of the cafeteria.

LOST: Gray and red automatic Schaeffer pencil; if found please return to Bernice Richardson, Aerodynamics Division.

Life At The Laboratory

Big times are being planned for Sunday, Aug. 7, by the Instrument Calibration Laboratory. Buckroe Beach is to be the scene of action and the occasion is a get-together picnic. Trolley cars are expected to be loaded, since about 40 will join in the festivities. Games and stunts, from baseball to three-legged races, have been planned, in addition to a super-picnic lunch. June Wyatt, Reproduction, suggested the affair and a merry time is expected by all.

Spencer Watkins (godfather of Flight Research babies) has been passing out cigars for Sam Eakin Sr., Shop Superintendent, who is the father of a baby boy, and for Ivan E. Stone, who is the father of a new girl.... Dickie Creech, Circulation's sun-browned emissary of goodwill, is "going out of circulation." She is engaged to Frank Gough Jr., Instrument Service.... Frances Hoback, Virginia Rotter, and Anna George were entertained at a birthday dinner by the girls of Physical Research last week in the PR office.

John F. Victory, NACA Secretary, was a LMAL visitor last week. Elmer Horton, TDT, who was called to Flint, Mich., upon the death of his aunt, has returned.... Leonard Damratowski is nursing a broken arm suffered while playing softball for the Tank.... Joe Spiegel, FRM, has departed the Laboratory to become an aviation cadet.... Two ex-LMAL boys are flying cadets: Eli Druckman, Instrument Service, is stationed at Gettysburg, Pa., and William O'Rourke, Erection Shop, is learning to fly at Miami Beach.

Vacation rhapsody: Those who are enjoying a respite from work are Frances Daniel, Duplicating, at her home in Petersburg; Jerry Crouch, East Area Computing Section, in Goldsboro, N.C.; Alice Westcott, LW Purchase, in Washington; Walter Robbins, LW Purchase, at his home in Kentucky. Among the returned are Richard Sawyer, FRM, from Arvonia, Va., where he visited at the home of Mary Lou Duval, Stability; Bill Gray, Pilot, from Pittsburgh; Hazel Philyaw and Dorothy Estes, 19-foot Pressure Tunnel Computing Section, from New York; Joe Getsug, Electrical Office, from a business trip to Washington; Ruth Webb and Ruth Ludwig, Stenographic, from Ocean View with the results of too much sun; Helen Bundick, Stenographic, from New York; Jack Posner, Tank, from Lake Havasu, N. Y.; Frances Moore, Tank, from Virginia Beach; Paul Fariss, Tank, from Washington; Margaret Hodgens, Loads, from sunny Florida; Albert Peter Ianuzzi, Instrument Service, from New York; and Tilford Crandall, Instrument Service, from his farm where he has been tending his crops.

Dot Severance, ICL, has a theme song: "Why didn't somebody tell me those things?" Being a newcomer, she hopped an Army shuttle bus the other day in an effort to reach the West Area. "It was a fine ride," she reports, "but we covered the whole of Langley Field before we got there; and then I had to walk half a mile.".... Elton W. Miller, Chief of Aerodynamics, may not admit it but he is the "song bird" of the Hampton Kiwanis Club.... Congratulations to Tom and Lenore Hulcher. They celebrated their tenth wedding anniversary August 5.

LOST: Gray and red automatic Schaeffer pencil; if found please return to Bernice Richardson, Aerodynamics Division.

MORE ALTOS (From page 1) have been chosen by the music committee. There was a discussion of a name for the group and also of the proposed constitution and by-laws. Further consideration will be given these matters at the next meeting.

The group will meet Tuesday night, Aug. 10, at 7:30 at the Hampton USO.
LIBRARY RECEIVES MORE BOOKS

Books which have been procured by the Library from January 1 to July 31 and which are available for use by the Engineering staff:

- American Aviation Directory, Calculus of Finite Differences, by C. Jordan; Fluorescent Chemicals, by J. A. DeMent; Complex Variable and Operational Calculus with technical applications, by W. N. McLachlan; Heat Transmission, by M. Adams; James's all the World's Aircraft;
- Chemistry of Engineering Materials, by Leigh; American recommended practices for the inspection of Elevators, Inspectors Manual, 1937; Budgeting, by Prior Sinclair; Plastics for Industrial Use, by John Sasso; Combustion, Flames and Explosions of Gases, by Lewis; Statistical Mechanics, by Mayer and Mayer;
- Trigonometric Functions to Hundredth of a Degree, by DeLella; Logarithmic Tables, by Vega; Barlow's Tables, Lubrication, by Norton; Properties of Ordinary Water Substance, by Dorsey; Physics of the Air, by Humphreys;
- Who's Who in Aviation,
- Welding Handbook, 1942; Mathematics of Modern Engineering, by Keller; Introduction to Physics, by Hows; Metal Castings, by Campbell; Dictionary of Aeronautical Terms, English, French, Japanese, German;
- Ingenious Mechanisms for Designers and Inventors, by F. D. Jones; Tables of Functions, by Jahnke and Emde;
- American Electricians' Handbook, by Croft; Practical Electricity, By Croft; Electrical Principles, Airlines War Training Institute; Electrical Shop, Airlines War Training Institute;
- Proceedings of the 8th American Scientific Congress, Physical and Chemical Sciences; Mechanical Principles, Airlines War Training Institute; Engine Principles, Airlines War Training Institute; Physikalische Hydrodyanmik, by Bjerknes, Bjerknes, Solberg and Bergron; Airplane Structural Design, by Elmer H. Bruhn; WPA Mathematical Tables (M1-1-10).

List Magazines Available Here

The following magazines, received by the Library, are available to the Engineering staff after the routine circulation is completed:

- Aero Digest, Aeronautical Engineering Review, The Aeronautic, Aircraft Engineering, Astronautics, Aviation, Diesel Progress, Engineer's Digest, Engineering, Flight;

Magazines not now being received by the Laboratory as a result of the war are:

### NACA WAR BOND RECORD DURING JUNE

<table>
<thead>
<tr>
<th></th>
<th>Washington</th>
<th>Langley</th>
<th>Ames</th>
<th>Cleveland</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>On Pay Roll</strong></td>
<td>125</td>
<td>2018</td>
<td>423</td>
<td>1171</td>
<td>3737</td>
</tr>
<tr>
<td><strong>Number Participating</strong></td>
<td>122</td>
<td>1965</td>
<td>401</td>
<td>1116</td>
<td>3604</td>
</tr>
<tr>
<td><strong>Percent Participating</strong></td>
<td>97.6%</td>
<td>97.57%</td>
<td>94.80%</td>
<td>95.31%</td>
<td>96.44%</td>
</tr>
<tr>
<td><strong>Monthly Pay Roll</strong></td>
<td>$2,265.46</td>
<td>$394,398.31</td>
<td>$89,745.85</td>
<td>$243,182.89</td>
<td>$754,592.51</td>
</tr>
<tr>
<td><strong>Amount Subscribed</strong></td>
<td>$2,932.23</td>
<td>$45,464.43</td>
<td>$9,433.66</td>
<td>$25,937.31</td>
<td>$83,797.63</td>
</tr>
<tr>
<td><strong>Percent Subscribed</strong></td>
<td>10.75%</td>
<td>11.53%</td>
<td>10.52%</td>
<td>10.60%</td>
<td>11.11%</td>
</tr>
</tbody>
</table>

### HELP SPEED UP CAFETERIA SERVICE

Do you fumble for funds to pay your lunch bill; or pause to engage the cashier in conversation during a rush? Well, perhaps it's you who are holding up the West Area Cafeteria lunch line.

The NACA Exchange Council suggests, after a recent survey, that the lunch line will move faster if customers have their money ready as they approach the cashier, place the change on their trays and move on; and also if they will confine conversation with the cashier to necessary business.

AERONAUTICS: First in war; first in peace.

### LMAL ACCIDENT FREQUENCY

This curve didn't drop because of WISHING and HOPING. It dropped because of THINKING and DOING.

Are you doing all you can to make your job safe?
Safety Cap - New LMAL Millinery Note

A large number of LMAL women workers in all the shops are striking a new note in millinery this week as they blossom out in the latest style safety caps--(see picture).

Sporting a completely ventilated felt crown with large visor and porous rayon snood, all in dark blue, the cap is considered as not only flattering to the wearer but comfortable as well.

A member of the Safety Board said that the hat, if properly worn, prevents entanglement of the hair with machinery. He warned, however, that the hat should be worn so that all hair is caught up by the hat and snood. "Worn back on the head the effect is highly decorative but extremely dangerous".

Use of the hats was suggested at a recent meeting of Lead Women. The hats are available at cost through the Apprentice Tool Procurement Committee.

Acceptance of the hat by the women employees was described as gratifying to the Safety Board.

FULL SCALE LEADS AS SEASON NEARS END

(By Si Diskin)

Full Scale tightened its hold on first place in the NACA Softball League last week by defeating Flight Research Maneuvers, 10 to 8, and West Sheetmetal Shop, 8 to 2.

In other games played during the week, Propeller Research topped the Tank, 12 to 5; 8-foot High Speed took a 10 to 7 decision from Structures, and 19-foot Pressure Tunnel outclassed 16-foot High Speed, 19 to 2.

The regular season has been extended one week to permit all postponed games to be made up. All teams are requested to take advantage of the respite period. Games may be arranged through Jerry Toplitz.

Play-offs are expected to begin the week of August 23.

The first practice session of the newly-organized NACA softball team will be held at Darling Park in Hampton on Monday afternoon, August 9. A good turnout is expected for the practice, which gets under way at 5:30.

<table>
<thead>
<tr>
<th></th>
<th>Won</th>
<th>Lost</th>
<th>Pot.</th>
<th>Games Behind</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Full Scale Tunnel</td>
<td>9</td>
<td>1</td>
<td>.900</td>
<td></td>
</tr>
<tr>
<td>2. 8' High Speed</td>
<td>8</td>
<td>1</td>
<td>.889</td>
<td>1/2</td>
</tr>
<tr>
<td>3. Stability Research</td>
<td>6</td>
<td>2</td>
<td>.750</td>
<td>2</td>
</tr>
<tr>
<td>4. West Sheetmetal Shop</td>
<td>6</td>
<td>3</td>
<td>.667</td>
<td>2 1/2</td>
</tr>
<tr>
<td>5. Structures Research</td>
<td>6</td>
<td>3</td>
<td>.667</td>
<td>2 1/2</td>
</tr>
<tr>
<td>6. Propeller Research</td>
<td>5</td>
<td>3</td>
<td>.625</td>
<td>3</td>
</tr>
<tr>
<td>7. 19' Pressure Tunnel</td>
<td>6</td>
<td>4</td>
<td>.600</td>
<td>3</td>
</tr>
<tr>
<td>8. Erection Shop</td>
<td>4</td>
<td>5</td>
<td>.444</td>
<td>4 1/2</td>
</tr>
<tr>
<td>9. 16' High Speed</td>
<td>2</td>
<td>5</td>
<td>.286</td>
<td>5 1/2</td>
</tr>
<tr>
<td>10. West Machine Shop</td>
<td>2</td>
<td>6</td>
<td>.250</td>
<td>6</td>
</tr>
<tr>
<td>11. Air Flow Research</td>
<td>2</td>
<td>7</td>
<td>.222</td>
<td>6 1/2</td>
</tr>
<tr>
<td>12. Tank</td>
<td>1</td>
<td>8</td>
<td>.111</td>
<td>7 1/2</td>
</tr>
<tr>
<td>13. Flight Research Maneuvers</td>
<td>1</td>
<td>10</td>
<td>.091</td>
<td>8 1/2</td>
</tr>
</tbody>
</table>

LMAL GOLFERS URGED TO USE LANGLEY LINKS

LMAL golfers, who have been trekking the neat nine-hole Langley Field course this summer, are anxious to enlarge their "brother-dubber-hood".

Men and women golfers, from veterans to the rankiest amateur, are invited to join the sports parade. A monthly fee of three dollars entitles Laboratory employees to membership in the Langley Field Recreation and Athletic Association and use of the golf course.

Golfers interested in applying for membership for this month may communicate with Dale Burrows, telephone 360, before Aug. 10.

There are many advantages in utilizing the Langley links, local golfers point out. For instance: 1) transportation problems are lessened (the Army shuttle bus runs every 20 minutes and stops at the clubhouse); 2) equipment may be checked at the clubhouse at no extra charge; and 3) employees get an opportunity for much-needed recreation and they make new friends.

The course, located near the West Area and to the west of the Army landing field, was completed by the ARAA about two years ago and its facilities made available to employees of the NACA. The biggest response to this opportunity was made by the Engine Division, which since has been transferred to the Cleveland Laboratory.

LMAL golfers emphasized that reconditioned golf balls are easily obtained and are regarded as about equal to the pre-war product.

BACK ISSUES: The Bulletin Office has back issues of the LMAL Bulletin. Any one wishing a copy may have one by telephoning 376 and leaving an order.
**ARTICLE ON NACA IN “AIR PROGRESS”**

An article, "N.A.C.A. Spells Research," appears in the September issue of Air Progress.

The article is illustrated with a number of photographs, including activities in the LMAL towing basin, 24-inch Tunnel, 7-by-10-foot Tunnel, and 19-foot Pressure Tunnel.

A description of the various NACA facilities is given and the article mentions that the Full-Scale Tunnel here is "the largest and perhaps best known wind tunnel in the world".

"Behind the research at which NACA laboratory men are continuously engaged is the guiding hand of the Main Committee itself, a group of distinguished figures in the aviation world who serve as members of the NACA without pay," the article points out. "Decisions of far-reaching military and commercial significance are made when the group, at regular intervals, meets to map plans for research required to keep this country ahead in the race for air superiority."

**LIBRARY RECEIVES 1,101 NEW REPORTS THUS FAR IN 1943**

The Laboratory Library has received 1,101 new reports since January 1.

Included in the total are: NACA, 257; Army, 130; Navy, 321; British, 286; and miscellaneous, including universities, aircraft manufacturers, and others, 137.

**EMPLOYEES ASKED NOT TO TAKE GAS FORMS TO BOARD**

The local rationing boards have requested the NACA Transportation Committee to forward rationing requests by mail rather than have the applicant present them in person to the board.

This request was occasioned by the number of persons who call at the local board and who could much more expeditiously handle the business by mail, according to C. Clyde Lumpkin, Chief Clerk.

In order to facilitate this procedure, it is requested that tire inspection certificates be submitted with all requests for approval of gasoline. The request and the certificate will be mailed to the local board from the Chief Clerk's office.

**LMAL Requested To Take Part In War Loan Drive**

The Third War Loan Drive, in which LMAL is asked to participate by increasing its bond allotments to 15 per cent of the monthly pay, will aim at raising the largest amount of money from individuals that any drive has raised in the history of the world.

E. F. Bartlett, Chairman of the Interdepartmental Committee for pay roll bond savings, pointed out that the earnings of individuals during the last half of this year will be about $72 billion and the available savings from these earnings will be about $23 billion. "We are going to hold gas model contest August 15" (See page 4)

**HOLD GAS MODEL CONTEST AUGUST 15**

The Brain Busters Model Club, fresh from a successful rubber model contest last Sunday, is expecting a large turnout Sunday, Aug. 15, for the gas model contest. Classes A and B will be combined with separate prizes in Class C. Each contestant will be limited to six flights in each class, with the average of the three longest flights constituting his time. A special control line event for U-control and all-line models will be featured in the meet.

First place in last Sunday's contest was won by Bob Anness; H. B. Jones was second, and Reid Hull was third. There were 20 contestants.

The Brain Busters are sponsoring a scale model contest Aug. 22 in connection with the hobby exhibition at the Industrial USO in Hampton. Any type of scale model may be entered. No entry fee will be charged. The hobby show will include model railroading, photography, postage stamps, gas and rubber-powered models, ship models and others, with prizes for the best scale models. Everyone is asked to help by bringing their hobby to the show. The public is invited to attend the exhibition, which will open at 8 p.m. Aug. 22 and conclude Tuesday night, Aug. 24.

More than $200 worth of trophies have been subscribed for.
Dear Pop:

I’ve been intending to write to you more often; but our research program has been stepped up considerably, you know, since Hitler, Hirohito, and Mussolini began their dirty work at the crossroads.

I can’t tell you much about the work we are doing here. It’s confidential. But, believe me, Pop, whenever you read about the bombers pulverizing Axis targets, or fighter planes erasing enemy craft from the skies, or speedy pursuit ships protecting United Nations shores, rest assured that the majority of those planes are better aircraft as a result of the far-reaching research work done here. And we all have a part in it.

Sometimes the boys here begin to wonder whether they are doing enough for their country in a time of war. Well, I’m determined to offer all I’ve got to the war effort, for in doing that I’m not likely to have any doubts about the extent of my contribution. After all, we have a job to do here; and it’s an important one, too, Pop!

But just working hard is only a part of this business of war. There are bonds, for instance. Uncle Sam started out asking for at least ten per cent. Now he wants 15 per cent of our pay in bonds and some of the fellows are wondering if that isn’t a bit too steep. But I read somewhere that this war is costing America one million dollars an hour, and that isn’t peanuts. We’re obligated to pay our share; for the bombs we buy are helping to maintain our freedom, our delightful way of life.

Even the experts in economics can’t offer much of a prediction concerning the conditions that will accompany peace in America. You know I’ve always wanted a home for my family, and perhaps a small car. Well, I’m deciding right now to suffer a little bit today in order to achieve some of the things I’ve dreamed of having. One thing about this war, Pop, we at home just haven’t suffered enough. Golly, war wasn’t meant to be a picnic!

I never realized before how much this nation, and all that her flag stands for, has been taken for granted. But I know now. I stood at attention the other day while the stars and stripes were being lowered. The strains of the Star Spangled Banner and the proud waving of the flag made me recall that we are engaged in a bitter struggle to perpetuate what a few brave and unselfish persons before us molded into a glorious reality. It’s important that we all lend a helping hand.

I must close now, Pop. But let’s pledge ourselves to a new purpose—to greater effort for a great nation. Then maybe we can hasten the day when we may enjoy some of those good ole times together again.

Your Son
GOLF NOTES

Five new members have been added to the list of those who contend that the fairway is a good place to be if you can stay in it. No serious mishaps have been reported from club throwing or other manifestations of those gripped with "Fairway fever" and no score has been reported higher than 152 for an eighteen. There is still plenty of room for those who would like to play on the Langley links. Several questions have cropped up and an attempt will be made from time to time to answer these.

One question was: "Do I have to have my own clubs or may I rent some at the course?" Clubs are loaned only to personnel in the armed services. So, have those clubs shipped from back home or borrow some and let's start playing golf. Clubs may be purchased at the clubhouse. There is still four months of good golfing weather left.

A handicap tournament is being planned for sometime in September.

19-FOOTERS FIGHT FOR PLAY-OFF BID

Nineteen-foot Pressure Tunnel, sparked by Kantrow's three-hit pitching, bettered their chances for a place in the softball loop play-offs by whipping PRT in a hard-fought game last week, 6 to 2. Burrows was the losing hurler.

Full-Scale cinched a play-off berth by overwhelming Stability Research, 12 to 3. Large hurled steady ball for Brewer's boys and received good support.

Structures Research overcame a two-run deficit by scoring five runs in the sixth to defeat FRM, 7 to 4, and assure the losers of at least a tie for last place.

All ball players are invited to the second practice session of the NACA softball team on Monday, August 16.

TWO HUNDRED new employees are being sought for work as Minor Laboratory Apprentices at LMAL, where they will perform duties similar to those of Mrs. Frances L. Powell (above), who is operating a planer in the West Area Machine Shop. T. Melvin Butler, Personnel Officer, said they will be given practical training and then assigned to the various shops. A memorandum, issued to the staff, describes the need for additional non-draft eligible personnel, especially women shop workers. A questionnaire on the reverse side of the memorandum may be used by staff members in listing their recommendations.

Advance Sick Leave

Given Only When Conditions Warrant

Advance sick leave is not a privilege to which the employees of LMAL are automatically entitled. It is a privilege which may be extended when circumstances warrant. However, the Administration indicates that it will not be granted to employees other than those having a permanent status, except in unusual circumstances.

In cases where advance sick leave is requested, the special circumstances warranting its granting should be presented with the request. Where an employee has annual leave sufficient to cover any period of sickness not covered by accumulated sick leave, advance sick leave will not be granted except where circumstances warrant.

<table>
<thead>
<tr>
<th>Won</th>
<th>Lost</th>
<th>Pct.</th>
<th>Games Behind</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Full Scale Tunnel</td>
<td>10</td>
<td>1</td>
<td>0.909</td>
</tr>
<tr>
<td>2. 8' High Speed</td>
<td>8</td>
<td>1</td>
<td>0.809</td>
</tr>
<tr>
<td>3. Structures Research</td>
<td>7</td>
<td>3</td>
<td>0.700</td>
</tr>
<tr>
<td>4. Stability Research</td>
<td>6</td>
<td>3</td>
<td>0.666</td>
</tr>
<tr>
<td>5. West Sheetmetal Shop</td>
<td>6</td>
<td>3</td>
<td>0.666</td>
</tr>
<tr>
<td>6. 12' Pressure Tunnel</td>
<td>7</td>
<td>4</td>
<td>0.666</td>
</tr>
<tr>
<td>7. Propellant Research</td>
<td>5</td>
<td>4</td>
<td>0.555</td>
</tr>
<tr>
<td>8. Erection Shop</td>
<td>4</td>
<td>5</td>
<td>0.444</td>
</tr>
<tr>
<td>9. 16' High Speed</td>
<td>2</td>
<td>5</td>
<td>0.286</td>
</tr>
<tr>
<td>10. West Machine Shop</td>
<td>2</td>
<td>6</td>
<td>0.250</td>
</tr>
<tr>
<td>11. Air Flow Research</td>
<td>2</td>
<td>7</td>
<td>0.282</td>
</tr>
<tr>
<td>12. Tank</td>
<td>1</td>
<td>8</td>
<td>0.111</td>
</tr>
<tr>
<td>13. Flight Research Maneuvers</td>
<td>1</td>
<td>11</td>
<td>0.083</td>
</tr>
</tbody>
</table>
after the greatest portion of these savings because it is necessary for us to get this money either through bonds or taxes...."

Mr. Bartlett explained that civilian employees of the Federal Government are investing $35 millions a month in bonds, about 8.3 per cent of gross pay rolls. "We must aim for 100 per cent employee participation with at least 15 per cent of the gross pay roll invested."

LMAL's July report showed that there are 2,090 employees participating in the pay roll plan—95.39 per cent of the 2,191 on roll. Of the gross monthly pay roll of $420,997.77, a total of $48,660.75 or 11.55 was allotted by employees. The average allotment was $23.28.

BACK ISSUES: The Bulletin Office has back issues of the LMAL Bulletin. Any one wishing a copy may have one by telephoning 376.

ALL ABOARD FOR SHANGRI LA

VACATION RHAPSODY: Those who are taking life easy for a while are Martha Willis, Apprentice Administration, in New York and Rhode Island; Bill Smith, 16-foot Tunnel, in Rhode Island; Maurice White, FRM, and Mrs. White, Jack Reeder, Pilot, and Frances Winder, Full Scale, at Virginia Beach; Maxine Johnston, Bonds, in Rochester, N.Y.; Kitty Parker, Head of Bonds, in Danville; Mary Lou Mackie, Editorial, and Helen Flannagan, Chet Furlong and Owen Deters, all of the Pressure Tunnel, in New York; Sherwood Butler, Procurement Officer, in Shangri La.

THOSE WHO have returned from a brief respite from their labors are Murray Grob, ICL, from New York; Beth Hay, Tank No. 2, from Camp Bethel; Margaret Vaughan Farmer, East Area Computing, from her home in Wilson, N.C.; Virginia Tucker, Head of East Area Computing, from a visit to the sand dune country of Nags Head, N.C.; William S. Aiken, Aircraft Loads, from a week-end trip to New York where he lingered just a little too long and missed a train; James M. Benson, Tank No. 1, from Tennessee; Laura Lineback, our vari-type artist, from her home in Winston-Salem, N.C.; George Magnus, I.S.L., from Virginia Beach; Elinor Sparrer, Flight Research Maintenance and Repairs, from Pennsylvania; Mel Marks, FRM, from New York; Ann Deimel, FRM, from her home in Baltimore; James Forest, Maintenance, from Baltimore; John Hickey, AWT, from Atlantic City, which he claims is a heaven for wolves; Kay Kelsey, AWT, from Nags Head, and John Lowry, AWT, from Urbanna Beach.

(See Life at the Laboratory, page 5)
Life At The Laboratory

STAFF MEMBERS of Flight Research Maneuvers are expecting to have a big time when they frolic at Grand View today (Aug. 14) at a section picnic. It was reliably rumored by the engineers that any one who can bring a crate of beer is invited. From all reports, the Illustrators' picnic at Buckroe Beach Aug. 8 was a howling success, thanks to the efforts of June Wyatt, Jane Topping, Martha Deisher and their committees. Even section head R. E. Mixson outdid himself, playing games around the fire between courses of hot dogs and marshmallows. (Ed. note: We were informed that Carol Christensen, our Technical Service Building reporter, would have had more news about the picnic but for her interest in a certain male).

ISABELL WOOLARD, Duplicating, recently suffered a broken finger. Charlie Hastings, IRL, is the father of a baby girl born Aug. 7. Richard Skoog, FRM, will return to his Minnesota home early next month to marry Ingrid Westin. Kerry Pratt, Loads, will be married soon to Marilyn Burrill, Windsor, Vt. Arthur Kantrowitz, AFR, is engaged to Rosalind Joseph, New York City. Letitia Cassidy, Duplicating, is convalescing from an appendectomy. Hilda Thompson, FRM, has departed the Lab to return to her studies at Greensboro (N.C.) College today. Today is the big day for Charlotte Young, Selective Service, and Jim Delano, 8-foot Tunnel. Lindsay J. Lina, Tank No. 1, is receiving pre-flight training in the Army Air Corps. Louise Sargent, Stenographic, conducts a conversational Spanish class every Friday night at the Hampton USO center.

BOB WHITE, recently assigned to the Dynamic Model Shop, was surprised to find another Bob White two tables away. Their birthdays are the same. Kay and Gay Wasson, Personnel, are happy about the surprise visit from their mother in Dayton, Tenn. Jane White, Circulation, who lives with the Wassons at Cavalier Court, is also entertaining her parents from Dayton. Gay is engaged to Millman Stroud, Murock, Calif., and the wedding is slated for January. Hank Fedziuk, Office of the Engineer-in-Charge, is reported to have a "personnel" interest in the Personnel Office.

BERN PICARD, ISL, has been transferred to AERL. Recent visitors included Dr. W. F. Durand, member of the NACA and former Chairman; Charles H. Helms, Washington Office, who indicated on the guest register that he was here to see "everybody"; and John B. Wheatley, General Motors, who formerly was employed at LMAL. I. Hermon Smith, husband of Elizabeth Smith, Receptionist, is home for a short time after service with the Navy in the Atlantic. Three engineers, Paul Johnson, Jack Runckel, and Jerry Hieser, 16-foot Tunnel, have grown beards. Now they are cultivating mustaches. Herbert Hoover, Pilot, who was hospitalized with a head wound suffered when a cockpit canopy struck him during a test flight, is back at work.

FRIENDS OF LOUISE Moss, 16-foot Tunnel, are wondering what she was doing roaming around the Lab with a gallon can of "crop wash"?... Capt. W. P. Carl, Jr., is a new arrival at the Liaison Office. "Tiny" Hutton, Personnel, says your war bonds are "a steak in the future." Dave Goldenbaum, Tank, says the Hampton Little Theatre will resume activity soon. The AWT picnickers enjoyed a recent outing—eating fried chicken, playing games, singing, and socializing. The picnic was held in the grove on Hanover Avenue, across from the "boss's" house.

MUSICAL MUSING

"...AND THE ANGELS SANG:" Well, maybe not literally—but if you had passed the Hampton USO Club last Tuesday night at 8:00, you might have thought a "heavenly choir" had really taken over the lovely Russian "Cherubim Song" by Muzicheskii-Tkach. For in spite of the continued terrific heat, quite a worthy gathering was on hand at the weekly rehearsal of the LMAL Musical Group.

Marvin Saunders directed the group in "Goin' Home" and "The Old Refrain" during the first part of the rehearsal, with Mary Noble Angel at the piano. Then, with Mr. Saunders at the piano, Miss Angel directed the "Cherubim Song," which embodies the real meaning of harmony and of musical melody.

Several new selections have been ordered for the group, among them some of Fred Waring's arrangements for glee clubs. As soon as sufficient funds are received, more music will be made available to the chorus.

The next meeting will be held at the USO on Tuesday, August 17, at 7:30 p.m.

The Morning After The Illustrators' Picnic

AMERICANISM: Twenty-seven million Americans are regularly investing more than $420 millions a month to help pay the cost of war.
THE ARRIVAL of Eugene Braig from Moffett Field to AERL, where he has begun his new duties, brought out the news that there are four Braig brothers with the NACA: Richard at LMAL, Roswell and Eugene at AERL, and Raymond at Moffett.

IN A RECENT book by Boone T. Guyton, Vought-Sikorsky test pilot, is the following: Here are names of test pilots whose efforts unpublicized have helped give America her best fighting planes. Such names include (Joseph) Vensel and (Melvin N.) Gough of the National Advisory Committee for Aeronautics.

WITH THE ARRIVAL of a Vari-Types, Wing Tips promises itself a face lifting.

AERL WILL have a horseshoe tossing championship contest soon. To get in trim, competitors are working out at lunch time on all AERL courts.

ENGINE COMPONENTS and Supercharger No. 2 are leading the Cleveland Laboratory's softball league.

LIBRARY NOTE: The Library has just received two new sets of "Aerodynamic Theory," edited by Dr. W. F. Durand, reprinted by the Durand Reprinting Committee, California Institute of Technology, January, 1943. These volumes are now available for loan to the Engineering Staff.

LMAL is in receipt of a letter from Mrs. Katharine W. Baldwin and Robert B. Harrison, of Garrison, Md., offering thanks for the flowers sent upon the death on June 24 of Dr. Joseph S. Ames, retired chairman of the NACA.

The letter said: "My brother and I wish to express our deep appreciation to the NACA, Langley Field, for the lovely spray of pink carnations and gladiolus sent to my step-father, Dr. Joseph S. Ames."
CAVALIER COURT BLACK OUT OKAY

Cavalier Court had a 100 per cent blackout Tuesday through the efforts of the recently formed Air Raid Warden Organization. Andrew Veryzer, ISL, is Section Warden and nine other NACA men are air raid wardens. Two meetings have been held, and rules, regulations, and methods of improving the organization were discussed.

A map of the Court was secured for each warden and the area was divided into seven zones with two wardens assigned to a zone. Each zone is supplied with a stirrup pump fire extinguisher. A pair of signal horns were erected upon the roof of the section warden's home for use during the air raid. The Issue 18, Vol. 2 Langley Field, Virginia, August 21-27, 1943

CREDIT UNION'S NAME CHANGES

The Credit Union, known generally as the "NACA Laboratory Federal Credit Union," will henceforth be known as the "LMAL Federal Credit Union." The name was changed in order to prevent any mix-up between accounts in the parent organization and those of the newer Credit Unions at Ames and AERL. Address all future correspondence to the LMAL Federal Credit Union.

Handles Savings, Loans

Any information concerning the Credit Union is available from representatives who are located in each center of activity. They will explain in detail the operation of the union, including its acceptance of savings deposits, and the granting of loans at an advantageous rate.

CRITICAL JOBS LISTED BY WMC

"Occupations take precedence over dependency status and other factors," The New York Times said in an article on the changes by the Manpower Commission in the rules for inducing men into the armed forces. One of the principal aims of the new effort is to hold the necessary men in war jobs.

"Those in vital production jobs and those who transfer to such work, are to be held back by their draft boards as long as they are required at home-front posts," the article said. The majority of male employees come within the scope of the 149 "critical" occupations listed by the WMC. Men utilizing such skills "will have a No. 1 priority on deferments," it was pointed out.

Among the provisions of the new program, it is mentioned that Selective Service Boards will give "greater consideration than ever before" to occupational deferments. In determining the "replaceability" of a worker they are to consider the actual and immediate effect of his induction on vital production, taking into account not merely the national shortage of his skill, but available replacements for even unskilled workers and current local shortages of skilled or unskilled labor.

The new "critical" list does not displace the existing essential lists of activities and occupations. The purpose of the new list is to

"Short" Cut To Cooler Days

Thirteen years ago this month a heat wave similar to the one now in effect seared its way through the Laboratory - causing much discomfort wherever it struck.

Weary male personnel, determined to find a remedy, hit upon the short pants idea. Although the fad was shortlived - it brought comfort while it lasted.

It was on Aug. 5, 1930, when R. E. Mixson began circulating an agreement which 24 employees signed. Mr. Mixson still has the paper, which reads as follows:

"We, the undersigned, agree to report for work in shorts on the agreed date, which will be set later. Any signer of this agreement who fails to wear said shorts will suffer the penalty of having his trousers removed in length to shorts."

Later that month the date was set. "No one had to suffer the penalty decreed in the agreement," Mr. Mixson reported, "since all the signers donned their shorts at the appointed time."

Many wore knee-length stockings with their shorts, while others elected to don regular socks rolled to the ankles.

The "short pants personnel" finished out the summer in their abbreviated attire.

[See page 4]
The LMAL Bulletin is prepared and published at the
Langley Memorial Aeronautical Laboratory of the Na-
tional Advisory Committee for Aeronautics, Langley
Field, Virginia, in the interest of LMAL employees.
Contributions of news and art should be sent to the
Editor, in the Administration Building. The telephone
number is 376.

Editor . . . . . . . . . . H. Lee Dickinson
Associate Editor . . . . . Ruth Angel
Art Editor . . . . . . . . Ben Vogel
Reporters . . . . . . . . LMAL Employees

If It's A Challenge, We Accept

What might be considered as a challenge to LMAL is in-
cluded in AERL's mobilization of its bond sale army. If it
is a challenge, we accept it with the determination that the
Cleveland Laboratory shall not surpass us in our pay roll
savings program.

In a front-page article in Wing Tips last week, there
appeared a discussion of the NACA bond situation. A Cleve-
land employee, dissatisfied with the report that LMAL leads
all branches of the Committee in the percentage of its per-
sonnel signed up for bond allotments, touched off an "all-
out" campaign to push ahead of us with the statement:
"After all, we're first in other things. We should be first
in this. That's where we belong."

Well, we have a great deal of admiration for our Cleve-
land contemporary. In fact, our sincere best wishes go out
to them in their patriotic proposal to better their record.
But, we just don't think the boys and girls of Langley are
going to sit idly by and let them take the lead!

CLEVELAND
CLIPPINGS

AERL WILL sponsor a dance
at Berea Fairgrounds on Sept.
18. The proceeds will go to-
ward sending Christmas boxes
to former employees of the
Cleveland Lab who are in one
of the armed services.
NOEL COWARD'S "Ways and
Means" has been chosen by the
AERL Drama Club for presenta-
tion in October. Another one-
act play, to be selected from
among a group of originals
submitted by Cleveland em-
ployees, will be offered the same
night. The club is adopting
a new system of rehearsing
proposed by Pearl Young, for-
merly of LMAL. The system
calls for a snappy schedule of
nightly rehearsals for one
week only.

JOHN E. NEFF was feted
with a dinner party and given
an automobile radio upon his
recent transfer from AERL to
AAL at Moffett Field, Calif.
NEARLY 100 families
attended the Technical Service
Building picnic, music for
which was furnished by "Bal-
dy's Gruesome Twosome."

THE MEN'S BOWLING League
gets under way in Cleveland
on Tuesday, Sept. 7.
STILL LEADING the softball
league is Engine Components,
boasting 1,000 per cent.

FRIDAY THE 13TH
IS BULLETIN JINX

The Bulletin staff is beg-
ning to wonder if there
isn't something to this busi-
ness of superstition.

Ever since July 3, when we
went on a weekly publication
basis, the Bulletin had been
distributed on time.

But last week the fates
contrived against us. Every-
thing was all right until
Friday, Aug. 13. That night
the press broke down.

As a result, the Bulletins
were not distributed until
Monday, Aug. 16. We're sorry
and hope it won't happen
again.

BONDS BUY BOMBERS
Remembrance Of Things Past: \textbf{THE SHORT PANTS FAD}


\textbf{FOUR SHUT-OUT WINS FEATURE SOFTBALL PLAY}

Four shut-out victories were registered last week by teams in the NACA Softball League. Full Scale took the measure of the Tank team, 8 to 0; 19-foot Pressure Tunnel overpowered the Erection shop and 8-foot High Speed topped Air-Flow Research, both by 8 to 0 scores, and Structures Research defeated Stability Research, 6 to 0.

In another game, Stability Research was eliminated from a play-off berth by losing to West Sheetmetal Shop, 20 to 7. Two teams--West Machine and 16-foot Tunnel have dropped from the league. Their remaining games shall be forfeited to their opponents.

The softball committee will meet shortly to arrange a play-off schedule.

The standings:

<table>
<thead>
<tr>
<th>Team</th>
<th>Won</th>
<th>Lost</th>
<th>Pos.</th>
<th>Games Behind</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Full Scale</td>
<td>11</td>
<td>1</td>
<td>.917</td>
<td>1/2</td>
</tr>
<tr>
<td>2. 8' High Speed</td>
<td>10</td>
<td>1</td>
<td>.909</td>
<td>2 1/2</td>
</tr>
<tr>
<td>3. Structures Research</td>
<td>8</td>
<td>3</td>
<td>.727</td>
<td>2 1/2</td>
</tr>
<tr>
<td>4. West Sheetmetal Shop</td>
<td>8</td>
<td>3</td>
<td>.727</td>
<td>2 1/2</td>
</tr>
<tr>
<td>5. 19' Pressure Tunnel</td>
<td>8</td>
<td>4</td>
<td>.667</td>
<td>3</td>
</tr>
<tr>
<td>6. Propeller Research</td>
<td>6</td>
<td>4</td>
<td>.600</td>
<td>4</td>
</tr>
<tr>
<td>7. Stability Research</td>
<td>7</td>
<td>5</td>
<td>.583</td>
<td>4</td>
</tr>
<tr>
<td>8. Erection Shop</td>
<td>5</td>
<td>6</td>
<td>.455</td>
<td>5 1/2</td>
</tr>
<tr>
<td>9. Air Flow Research</td>
<td>3</td>
<td>8</td>
<td>.273</td>
<td>7 1/2</td>
</tr>
<tr>
<td>10. Tank</td>
<td>2</td>
<td>9</td>
<td>.166</td>
<td>9</td>
</tr>
<tr>
<td>11. West Machine Shop</td>
<td>2</td>
<td>10</td>
<td>.166</td>
<td>9</td>
</tr>
<tr>
<td>12. 16' High Speed</td>
<td>2</td>
<td>10</td>
<td>.166</td>
<td>9</td>
</tr>
<tr>
<td>13. Flight Research Maneuvers</td>
<td>1</td>
<td>11</td>
<td>.083</td>
<td>10</td>
</tr>
</tbody>
</table>

\textbf{Musical Musing}

With a faithful and determined number of persons present, the LMAL Musical Group met last Tuesday night. Lacking an accompanist, the group began rehearsing "a cappella" with Don Brimley leading. They did nobly despite the sharps, flats, and accidentals that turned up in unexpected spots! Howard Garris went in search of an accompanist and made quite a discovery when he found Private David Garvey, U.S. Army. In no time at all, Private Garvey had the chorus right with him. He is stationed at the old Sym's-Eaton School and said he felt "at home" accompanying just such a group. Needless to say, the chorus was delighted with his assistance.

Tuesday night the group will meet promptly at 7:30 at the USO.

\textbf{NEW ARRIVAL:} A Cochrane-Fly miller shaper machine has been installed in the ISL.
PARMENTER WINS TWO MODEL EVENTS

Frank Parmenter, Brain Busters president, captured honors in the gas model contest last Sunday by winning first in class C and second in class AB. He was flying his old faithful "Swoose" with an Ohlson 60 in C and a Forster in class AB. Parmenter's class C total time for three flights was 9 minutes, 56 seconds.

George Sadler, flying a Super Cyke powered "Lord Beaver Look", took second in C, while Herman Weber won third with his aged "Playboy". Spencer Cardwell got a 4 minutes, 20 seconds total with his B "Swoose" to cop first in AB. Tom Abel was third, flying his Cannon ship.

The scale model contest and hobby exhibition will be held Sunday Aug. 22 at the Hampton Industrial USO. The public is cordially invited to attend this show any time during the day.

Contest Plans Progressing

Plans for the Brain Busters model seaplane championships, for Sept. 19, are progressing. Entry blanks will be released next week and should be returned to the secretary as soon as possible. The deadline for the return of entry blanks is Sept. 15 and all late entries will be fined 25 cents.

Prizes have been presented by the Avion Club, Brain Busters Model Club, Maintenance Section, Tom Hulcher, W. F. Martens, V. J. Serio, Jr. and Carl Cecil. War Bonds have been given by Frank Parmenter and Carl Cecil. Among merchants and firms donating merchandise and cash are: Testor Chemical Co., X-Aceto Crescent Products Co., Inc., Keystone Paint Co., China Palace Gift Shop, Magow, Skyway Model Aircraft Co., Flo-Torque, and Comet.

List Other Donors

Other individuals subscribing help for the purchase of prizes are Bert Miller, Dan Hutts, George Sadler, Jack Culpepper, and Paul Marchal. Many more prizes and awards are needed to complete the prize list, among these being two second place trophies, and six war bonds. Help from any group, organization, or individual in obtaining these prizes will be greatly appreciated. Anyone wishing to help may contact the club secretary, Charles Folk, West Machine Shop, phone 340.

To Hold Banquet

Prizes for the seaplane contest will be awarded to the winners at a Victory Banquet above Cutler's Restaurant in Hampton after the meet.

REPRODUCTION AL SAYS:
"In preparing figures for reports, MAKE LINES OF UNIFORM WEIGHT"

Cavalier Court (From page 1) horns were used for the first time Tuesday with satisfactory results. Efforts are being made to obtain a permanent building for headquarters. The present wardens are: Jack Bruce, Levy Tindal, and Tom Palmer, Construction; Albert Schroeder, and Edward Rickey, FST; Abraham Moskovitz, Loads; Robert Miller, FRL; Jack McKee, AWT; and William Barlow, FRM.

Any NACA men living at Cavalier Court who would be interested in joining this group as an air raid warden, or one of the other two groups now being formed, fire watchers and auxiliary police, may contact Andrew Veryzer, 8 Mitchell Road, Cavalier Court.

PHONE NUMBERS: Compressibility Research-Chief, 291; 8-foot Tunnel Head, 232; and 8-foot Tunnel operations, 238; and Flight Research Division Chief, 379, and Flight Research engineering office, 229.

YOUR PART: Have you done anything toward our new goal of 15 per cent in bonds each pay day?

"Critical" Jobs (From page 1) see that they are so employed as to speed victory...

The following is a partial list of the "critical" occupations:

Production or Service Occupations:
Aircraft engine mechanic, all around; aircraft instrument mechanic; aircraft mechanic, all around; airplane pilot; cabinetmaker, all around; diesel mechanic, all around; electrician, installation and maintenance, all around; electrician, powerhouse; engineering draftsman, design; also
Foremen who are 1) utilizing in their supervisory jobs the knowledge and skills of one or more of the occupations included in the list of critical occupations, and 2) those who supervise directly or through subordinate foremen and supervisors production, technical or scientific work in essential activities, although the occupations of the workers supervised may not be listed; also
Instrument maker and repairer, electrical, mechanical, mechanical or scientific; layout man; load dispatcher, power or gas; machine tool set-up man; machinist, all around; molder, bench or floor, all around; model maker, all around; patternmaker, metal or wood; refrigerator equipment repairman, gas or electric, all around; refrigerator engineer, tool maker.

Professional and Scientific Occupations:
Architect, naval; chemist; engineer, professional or technical; mathematician; physicist.
Life At The Laboratory

LIFE OF A SAILOR: Dennis J. Martin and Donald E. Brimley, PRL, with Howard Garris, FRM, sailed the 35-foot skipjack "Vagabond" from Baltimore to Hampton last week. Skipper Brimley reported that they ran into lots of weather--"all bad". There were many interesting adventures on the five-day trip.

BUNDLES FROM HEAVEN: To Mrs. Leo Leifer, formerly of LW Purchase, a new daughter...To Harold Pierce, Cust Tunnel, and Claudia Pierce, formerly of FRM, a new son, Harold, Jr., Tuesday, Aug. 10.

BEACHCOMBERS: The FRM picnic at Grand View last Saturday was a real success. One of the highlights was the ducking of fully-clothed Sam Eakin, Mel Cough, and Bob Gilruth. Apparently the Flight engineers are not the men they're reputed to be, for the girls, led by Eleanor Johnson, tureenoned in three volley ball games. (Maybe the boys should recruit some of the girls for their softball team). The engineers say the party ended for them when the 15 crates of beer gave out. Alfred Tankersley, Tank No. 1, will give half of his No. 18 coupon to anyone returning the shoe that he lost at Virginia Beach. Alfred, Wilfred Kelley, and Dave Woodward, all of the Tank, had the Laugh on Bruce Amole when he discovered that he had brought along his eight-year-old son's bathing suit instead of his own.

MISCELLANY: Joe Doyle, Budget Office, recent recipient of an Ensign's commission in the Navy, reports to Fort Schuyler, N.Y., Aug. 26. Sally Bourne, Structures, who recently underwent a major operation, is convalescing at her home in Kennebunk, Me...Jane Ashby, Personnel, is all excited about her Merchant Mariner coming home any day now...Chris Reynolds, back from a sojourn in Dixon, Ill., and Doris Bloxom, who has returned after convalescing at her home on the Eastern Shore, were given birthday parties by their fellow Pay Roll workers. Anne Carminese, Leave, underwent an appendectomy...Peggy Darnley, Files, has joined her husband in Tennessee...Mrs. D. H. Thomas, Maintenance, and her husband are hosts to her parents, Mr. and Mrs. S. E. Thomas, Baltimore...Personnel of the Paint Shop in the West Area are proud of the flowers they planted around their building...Nurse Elizabeth Teagle's mother recently underwent an operation...NACA personnel are invited to the conversational Spanish class conducted Fridays at the Hampton USO.

LOVE AT FIRST SIGHT: Mary Bailey, Tank No. 1, married Paul Hill, PRT, in Jonesville, Va., Aug. 7. Kay Kelsey, AWT, is engaged to Duke Wetherington, Wilson, N.C., bell bells are planned for October...Clarence Brown, Erection Shop, will marry Gwyn Barber, Hilton Village, Sept. 18...Evans Schuette, Structures Research, wed Gertrude Hansen in Fort Wayne, Ind., Aug. 14...Harold Crate, Structures, is engaged to Margaret Corbell, Hampton. They'll face the preacher Sept. 6...Charles Dobrowski, Structures, will marry Mary Waters, Hampton, Sept. 25...Helen G. Hackenberg, Leave, will marry Tech. Sergt. "Rudy" Ries Sept. 11.

MOSQUITO BOMBER: Jerry Hill, who left the East Area Machine Shop last month to join the Army Air Corps as an aviation cadet, is recuperating in his home town of Clarksberg, West Va., from malaria fever. He says hello to his friends at MAL and reports that the Air Corps will offer him another chance in September, after he has recovered from the "dirty dig" some Hampton mosquito gave him.

SEEK STORAGE SPACE

The Hampton Little Theater, in the midst of a struggle for survival, is seeking storage space for its properties.

Ever since the Hampton Community Center was taken over by Uncle Sam's Army, the Little Theater properties have been reposing in various damp cellars and leaking garages. Currently, they are divided between Dave Goldenbaum's basement and Lieut. Ian H. Ross' well-ventilated garage. Both Goldenbaum and Ross must move soon to make way for the Government's apartment-conversion program.

Any one wishing to help may communicate with Bob Johnson, East Area Sheetmetal Shop.

LOST: Gold and brown striped fountain pen, with Eloise DeMoss engraved on it. Please return to Eloise Lada, Apprentice Administration.

Credit Union (From page 1) interest rate of one percent per month on the unpaid balance.

Name Representatives

The following is a list of representatives and the office at which each may be found:


Requests Personnel Not To Ride In Front Bus Seats

In the interest of safe driving, the Administration requests that Laboratory personnel abandon the practice of riding in the front seat of the shuttle buses, since this tends to distract the drivers.

A survey indicates, it was pointed out, that the majority of accidents involving the large buses have occurred when passengers were riding on the front seat with the drivers.

This request does not apply to the station wagons used for transporting Laboratory employees.

ALL ABOARD FOR SHANGRI-LA

VACATION RHAPSODY: Those who are away include Arthur Samet, Budget Office, in Boston; Clinton Brown, AFR, in New York; Rinda C. McBrayer, LW Purchase, and husband James, WA Stockroom, in the Ole North State; Maxine Horne, 16-foot Tunnel, in Morehead City, N. C.; Irene Nicol, Leave, in Philly; Virginia Potter, Leave, at her home in Tennessee, where for the first time in two years she saw her boy friend, who had been reported "missing in action"; Jonnie Fuller, Personnel, in Winston-Salem, N. C.; Louise Neal and Katy Banick, Leave, at Virginia Beach, reportedly in the company of a "wolf"; Elizabeth B. Hobbs, Personnel, in Roanoke; Janie Burroughs, and Bob and Margaret Swanson, and Tom Harris, AWT, at Nags Head; Frances (ICL) and Betty (Library) Bohannon, in Lynchburg.

THOSE WHO HAVE returned include Margery Hannah, head of West Area Computing, from Farmington Country Club near Charlottesville; Pat Chiarito, John Houbolt, Bob Wineberger, Structures, and Bob Johnson, Erection Shop, from Nags Head; Abe Silverstein, head of Full Scale Tunnel, from Lake George, N. Y.; Nancy Underwood, head of Pay Roll, from the Big City, where she started a new style by dining at the New Yorker in beach shoes (her tootsies hurt).

YOUR PART: Have you done anything toward our new goal of 15 per cent in bonds each pay day?

LOST: Change purse, in wash room of Administration Building. Please return to Mrs. Emma McSmith, Maintenance.

The Hoe And Rake Are Handy Tools You Cannot Do Without

But Remember What These Tools Can Do Carelessly Left About
PLAN TO EXPAND AND IMPROVE BUS SERVICE TO LMAL

The Transportation Office has contacted the Virginia Public Service Company on the subject of additional and improved bus service for Laboratory employees. The VPS has requested certain information from the Laboratory, such as the number of employees who would avail themselves of the added service.

It is up to the Laboratory to present a fair figure in answer, so if you can and will use any of the following services if made available, please call the Chief Clerk's office, phone 377, and state whether your use would be regular or intermittent. Tuesday afternoon (Aug. 31) is the deadline for presenting this information.

The services which may be made available include:

- Through buses, leaving Langley at 3:45 and 5 p.m., not stopping at Hampton, making their first stops in the vicinity of Wythe Center and continuing to Newport News, making stops as necessary.
- A bus leaving Hampton (See page 2)

TAX ESTIMATES DUE BY SEPT. 15

Some LMAL employees are required by law to file declarations of estimated tax on or before Sept. 15. A declaration of estimated tax is an advance statement of the approximate total amount of income tax for which the taxpayer believes he will be liable on account of income received during the current taxable year.

Forms Available

The forms on which the declaration is made will be available to Laboratory employees at the Personnel Office. However, the Treasury Department is sending a form to each person who filed a return last year.

Table of Tax Estimates

<table>
<thead>
<tr>
<th>Income Range</th>
<th>Tax Required</th>
</tr>
</thead>
<tbody>
<tr>
<td>Single persons</td>
<td></td>
</tr>
<tr>
<td>whose gross salary (for either 1042 or 1943) is more than $2,700; Married persons whose gross salary (for either 1042 or 1943) is more than $3,500; All persons who expect to have private income of more than $100 during the taxable year.</td>
<td></td>
</tr>
<tr>
<td>Those persons who were required to file an income tax return for 1942 and whose wages are expected to be less for 1943 than for 1942.</td>
<td></td>
</tr>
<tr>
<td>The withholding tax provides a government-estimated prepayment of the victory tax, the normal income tax, and the first bracket of the surtax. It is based upon salary only. The surtaxes for the second and higher brackets and the tax on any other income are not included in the withholding tax. The declaration of</td>
<td></td>
</tr>
</tbody>
</table>

Renew Gas Coupons

LMAL employees who have not renewed their old type "H" and "C" gasoline coupons for the new coupons may submit their remaining coupons to the Transportation Office in the Administration Building and they will be replaced by the new issue. This must be done not later than 12 noon, Tuesday Aug. 31, G. Clyde Lumkin, Chief Clerk, said he was informed by the local war price and rationing boards. "A" coupons are not affected.

FAMED TEST PILOT AMONG VISITORS TO LMAL

LMAL had a number of visitors during the past week, among them being B. T. "Red" Hulse, famed test pilot of the Curtiss-Wright plant at Buffalo, N. Y. He came here on Wednesday, Aug. 25.

John E. Victory, NACA Secretary, was here from the Washington Office. Two representatives of the Bureau of Aeronautics of the Navy Department were here—Capt. Walter E. Diehl, USN, and Lieut. Comdr. Emerson W. Conlon, USNR.

Other visitors included James R. Braig, of AERL, who was in Hampton the past few days on a vacation, and Lieut. William V. Gough, Jr., of the Naval Air Station at Patuxet River, Md., here to see his test pilot brother, Melvin N. Gough.

BUTLER'S BALLAD

Tell your friends
And cousins, too,
We've got important
Work to do!
Two hundred women
Is our need—
For Shop work now,
We must show speed.
So, won't you be
A loyal rooter,
And appoint yourself
As our recruiter.
The LMAL Bulletin is prepared and published at the Langley Memorial Aeronautical Laboratory of the National Advisory Committee for Aeronautics, Langley Field, Virginia, in the interest of LMAL employees.

Editor . . . . . . . . H. Lee Dickinson
Associate Editor . . . . Ruth Angel
Art Editor . . . . . . Ben Vogel
Reporters . . . . . . LMAL Employees

DO NOT SEND BONDS THROUGH DISTRIBUTOR

Section heads or those designated by them to receive bonds are reminded to check the bonds carefully, since they are held responsible for them.

All bonds that must be returned to the Personnel Office should be sent by special messenger—and NOT through circulation. If a special messenger is not available in the section, the Bond Clerk will dispatch one to return the bonds.

TWO DISCUSSIONS GIVEN AT HYDRO MEETING

The monthly meeting of the staff of the Hydrodynamics Division was held Thursday night in the Administration Building Cafeteria.

Two technical discussions were given: "Notes on Skipping", by John B. Parkinson, and "Notes on Piloting Technique With Reference to Stability", by James M. Benson.

PLAN TO EXPAND

(From page 1)

after connecting with the bus which leaves Langley at about 11:45 p.m., which would take a circuitous route to Newport News, leaving Hampton by the Shell road, turning down La Salle avenue to the Recoughtan road, continuing up Recoughtan to Hampton Roads Avenue, going to the Shell Road and continuing on to Newport News, touching Stuart Gardens before circling back to Copeland Park.

These services, it was pointed out, would provide reasonably direct transportation to persons now having a long walk.

JANITOR'S CLUB MEETS

The NACA Janitor's Relief Club, organized in July, 1942, will hold its monthly meeting Sunday, Sept. 19, at the Masonic Temple on North King Street in Hampton.

Included among the business to be conducted will be election of officers.

Life At The Laboratory

LOVE AT FIRST SIGHT: Madeline Harrison, Personnel, is excited about the approaching graduation of "her Bill", who will receive his Army Air Corps wings in October.... Tony Tsourounis, Engineering Section, hears faint sounds of bells which will clang forth in October.... Gerald Brewer, Full Scale, and his wife Ester, Pressure Tunnel, are in Boston to attend the wedding of his brother. Gerald is best man.... Mike Trauring, Aircraft Loads, was married this month to Gertrude Landy of New York..... Virginia Potter, Leave, was married Aug. 21 to Staff Sgt. Vance Kirby of Mitchel Field. Wedding bells for June Wyatt were the reason for ICL's dinner party at the Hi-Hat Tuesday night. She'll marry Ensign Raymond Southern, USN. Jane Torping, LaVinnia Watson, and Martha Deisher, who return to school soon, were also honored. Fried chicken in the rough was served.

MISCELLANY: Have you heard? The Engineering Section has an Angel! (Mary Noble)..... Will someone please find an apartment for Ted Elder, Engineering, so he can marry that certain girl?..... Kaleb Osborn, Engineering, is convalescing at home after a spell in the hospital..... Howard Eastman, Engineering, is on extended sick leave at his home in Hampton..... Isabel Woolard, Duplicating, has departed the Lab and will return to school in Washington, N.C..... Mrs. Roberta Putnam and Mrs. Doris Payne, both of L Purchase, are back after an illness of several weeks..... Tom [Apprentice Administration] and Leonore Hulcher, Selective Service, have as house guests Lenore's mother from Richmond, and a cousin, Mrs. Evelyn Moss, who recently returned to the states from the Virgin Islands..... Friends of Kay De Sanders, Circulation, welcome her back after a recent illness..... Albert Kuhn, Photo Lab, has joined the Army Air Corps..... The West Machine Shop literally went swimming in watermelon at a feast Thursday night at the home of Bill Pythress in Langley View. Each person attending brought a watermelon. Among those present were Fritz Breisch, Joe Lada, Carl Lambros, Jack Kinsler, Bob Steward, Ben Cleveland, Paul Salake, and Leigh Lewis.

BEACHCOMBERS: Among the returned from seashore jaunts: Margaret Farmer, East Computing; Norman Silsby and Ester Wendling, FRM, and Bill Mueller, Full Scale, from Virginia Beach; Joe (Personnel) and Pearl Burke, from the Eastern Shore of Virginia, where, according to Joe, they went fishing and "got a few hodheadz"; Robert Fordham Havens, Tank 1, and his wife, from Virginia Beach; members of the 19-foot Pressure Tunnel, from a glorious outing at Grand View last Sunday; Bill Craig, Administrative Office, Roy Lange, Benny Cocke, and Claude Hart, Full Scale, from NAG's Head; Hugh Watson, from Virginia Beach..... Those still enjoying the sun's rays are: Clarence Gillis and Joe Weil at Virginia Beach; Helen Wheary, Personnel, and her husband who just returned from post-graduate work in Knoxville, Tenn., at Virginia Beach; Dave Stone, 19-foot Tunnel, on the Eastern Shore.
WHENEVER THE 'GOOD FELLOWS' of LMAL get together for a chat about old times, the conversation invariably reverts to the old NACA baseball team, which played some of the best amateur nines in Tidewater Virginia before finally disbanding in the late Twenties. Most of the team's home games were played at the Soldier's Home field at Kecoughtan, although several contests took place on a diamond located at Langley Field near where the Chapel is at present. Some of the team members are still employed by the NACA, others have entered different fields, and one is deceased. One of the best known of the early teams was the 1927 aggregation (above). Team members and officials include (from left): Back row—George Dawson, John W. Crowley, Jr., and Tom Carroll, managers; and Monroe Ikner, deceased, an outfielder; second row—Johnny Bergbom, Walter Quigg, now at Ames Aeronautical Laboratory; Percy Keffer, and Oscar Loeser, now a Naval officer; front row—"Stumpy" Howard, George Hagnus, "Bluegie" Snyder, "Lefty" Forrest, Walvern Powell, now affiliated with Radio Station WGB; Mel Gough, and Raymond Braig, of AAL. Those still at LMAL are Crowley, Bergbom, Keffer, Howard, Hagnus, Forrest, and Gough.

WEST TO EAST AREA BUSES DO NOT STOP ON DODD BLVD.
Laboratory buses operating from West to the East Area are not allowed to make stops after entering Dodd Boulevard until arrival in the rear of Administration Building.

Employees coming from the West Area at the end of their work day, who intend to transfer to one of the public transportation buses, should leave the Laboratory bus at the corner where it enters Dodd Boulevard.

SOLUTION TO CHECKLIST (questions on page 6): 1-(c); 2-(b); 3-(a); 4-(b); 5-(c)

DESCRIPTS APPAREL FOR WOMEN WORKERS
A pamphlet describing the approved apparel for women workers in the shops of LMAL is being distributed this week by the Safety Board. The publication, printed by the Lithographic department of the Photo Lab, was prepared by Harry N. Henry.

The illustrations, some of which appeared in the safety cartoon, "LMAL Fashion Show," in a previous issue of the Bulletin, were drawn by Marge Opitz Patterson of the Reproduction Section.

DAN HUTTS WINS FIRST IN SCALE MODEL CONTEST
Dan Hutts, with his Boeing F4B4, won the scale model contest sponsored last week by the Brain Busters Model Club in connection with a hobby show at the Hampton Industrial USO.

Second was Joe Bell, with a Republic P-47, and Benny Miller's Gee Bee racer captured third.

IN NEW YORK: Joe Dodson, Engineering Section, along with about 20 other Laboratory employees, are in New York this week-end, attending a model airplane meet.
ALL ABOARD FOR SHANGRI-LA

VACATION RHAPSODY: Those who are away: Jacqueline Martin, East Computing, at home in Pittsburgh; Helen Northcross, East Computing, at home in Corinth, Miss.; Art Thorp, Engineering Section, at home in Pennsylvania; Jeanne Goddin, Engineering, at home in Pennsylvania; Anton Freihofner, Tank 1, in New York; Julia Woodbridge, Aircraft Loads, at home in Williamsburg; Pete Korycinski, 16-foot Tunnel, at home in Schenectady, N.Y.; Dick Sawyer, FRM, and Mary Lou Duval, Stability, at Dick's home in Concord, N.H.; Norman Silesby, at home in Massachusetts; Harry Ricker, in Philadelphia; Tony Schettlen in Pittsburgh, and Dave Kirwin, at home in Peoria, Ill., all three of the IRL; Stewart Crandall, at Provo, Utah; Marvin Schuldenfreu, Laurels Country Club in Monticello, N.Y., both of the AWT.

AMONG THE returned: Bill Smith 16-foot Tunnel, from Rhode Island accompanied by his wife and child; Elizabeth Garner, from Winston-Salem; Ann Timberlake, from Frederickburg, and Kay Kelsey, from Wilson, N.C., all three of AWT; "Buzz" Walters, ISL, and Selma Arrm, Stenographic, from Williamsburg where they have a Navy interest; "Buck" Barber, L Purchase, Dick Bragg, Maintenance, Wiley Jenkins, Erection Shop, and Jimmy Bertoci, 16-foot Tunnel, from a golfing week-end at the Gloucester Country Club; Maxine Hrone, 16-foot Tunnel, from her old Kentucky home; Paul Johnson, 16-foot Tunnel, from Rhode Island; Mary Lee, Duplicating, from home in Washington, N.C.; Nancy Wall, 16-foot Tunnel, from home in Leakesville, N.C.; Mary Hester Austin, from home in Roxboro, N.C.; Helen Flannagan, 10-foot Tunnel, from home in Greenville, N.C.; Roxannah Yancey, Aircraft Loads, from Alabama; Jewell Whatley, Aircraft Loads, from North Carolina; Jewel Whatley, Aircraft Loads, from Alabama; Dor Estes, 10-foot Pressure Tunnel, from home in Greensboro, N.C.; Byrdelle Nicholas, 19-foot Pressure Tunnel, from Fort Bragg.

THE CHAMP!

AUBREY HARRIS, who recently returned from Nags Head, in one short week astounded the natives and vacationists alike at the sand dune country by proving himself the foremost beachcomber of all time.

To Assistant Division Chief Harris, the beach was a treasure trove, for almost every time he went for a stroll along the bleak sands he found something.

An artist, apparently employed by the Nags Head Chamber of Commerce, sent this sketch of Harris, who is holding a couple of his beach trophies. Harris invites all his friends and acquaintances to fill their differential and gear boxes from his huge new source of oil. P.S.: The two bucks have blown!

EX-BIG LEAGUERS PLAY HERE TODAY

Laboratory employees will have an opportunity to see several former big league baseball stars in action in the game at 4 p.m. today (Aug. 28) between the Norfolk Naval Training Station and the Langley Field nine on the local Air Base diamond. NACA personnel will be permitted to attend the game.

Among those who will perform for the Sailors, and the teams they formerly played with, are Phil Rizzuto, New York Yankees; Dom DiMaggio, Boston Red Sox; Freddie Hutchinson, Detroit Tigers; Bennie McCoy, Tigers and Philadelphia Athletics; Vinmie Smith, Pittsburgh Pirates, and Maxie Wilson, Portsmouth Cubs in the Piedmont League.

TAX ESTIMATES

(From page 1)

estimated tax will indicate the deficiency between the estimated total tax due and the sum of payments made March 15 and June 15, 1943, plus the amount withheld from July 1 to Dec. 31, 1945. The deficiency for 1945, if any, must be paid one-half Sept. 15 and one-half Dec. 15, this year.

Should Be Accurate

The declaration of estimated tax should be reasonably accurate, because if the estimated tax is not at least 80 per cent of the actual tax obligation as shown on the return to be filed on March 15, next year, the taxpayer is subject to certain penalties. (An opportunity is given to amend this declaration on or before Dec. 15, this year, without penalty.)

In 1944 and subsequent years the declaration of estimated tax must be filed by March 15 of each year and may be amended quarterly thereafter to compensate for changes in circumstances and income.
REQUESTS NACA TO INCREASE ALLOTMENT

John F. Victory, NACA Secretary, reports that the Treasury Department has asked the NACA personnel to increase their investments in bonds from $82,000 a month to $160,000. "In addition the Treasury asks the Committee to push the cash purchases of bonds" during the $15 billion war loan drive which begins on Sept. 9, Mr. Victory says.

"The Treasury Department recognizes the NACA as the No. 1 agency of the Federal Government on its 'honor roll' in the purchase of war bonds," Mr. Victory mentions, in pointing out that this "is not a 10 per cent war, and it is our war. The Government simply must have more money to wage the war. The alternative to increased bond sales is increased taxes." So our people, to the extent that they take an enlightened view of the problem, will certainly prefer to buy bonds, even though admittedly it will involve scrimping, sacrificing, and self-denial to do so.

Emphasizing the need for an increase in employee participation in the pay roll savings plan and the sale of more extra bonds to more persons, Mr. Victory cites the fact that some NACA personnel are regularly subscribing for more than 25 per cent of their salary. About 96 per cent of the employees are subscribing.

LMAL several weeks ago inaugurated a campaign to increase the percentage of allotment in the pay roll savings plan to 15 per cent. The Laboratory is within approximately three per cent of its goal.

HAVE YOU misplaced a green tweed winter coat and a gray and red scarf? These two items are in the Electrical Office awaiting their owner.

Musical Musing

With some new numbers for their repertoire, the NACA Glee Club met in weekly rehearsal at the Hampton USO on Tuesday night. These new numbers consisted of several modern selections of Fred Warren arrangements for glee club, and the group thoroughly enjoyed working on the favorites. "There are Such Things," and there really are. For with Mary Noble Angel at the piano and Pfc. George C. Drake directing, the group got a real musical workout.

Drake Club Guest

Private Drake was the guest of the Club for the evening, and his directing is truly something to see. He has an interesting musical background of training and experience, having attended Wheaton College in Illinois and also having studied directing under Professor Church at Columbia University. He is stationed at Langley Field, and is a member of the 75th Squadron band, playing bass drum. The group seemed to enjoy singing for him; in fact, they didn't want to stop, and with Marvin Saunders at the piano, they continued singing well after adjournment.

Meet Again August 31

Everyone is urged to be present at the next rehearsal, Tuesday, August 31, promptly at 7:30 p.m. - please note the time! In case you've forgotten, this is the NACA's own group, and all employees are invited to join. The membership fee is reasonable, and there are still openings for all voices, sopranos, altos, tenors, basses.

EMPLOYEES MUST WEAR BADGES AT ALL TIMES HERE

Administrative regulations require that personnel identification badges be worn at all times on the post "in a prominent place" on the employee's clothing. They also must be worn with the employee's picture right side up for easy identification.

Administrative officials remind section heads and supervisors that it is their duty to see that employees wear their badges - and in the proper places.

It has been mentioned that women are the chief violators of this regulation, many of them claiming that the pin part of the badge makes holes in their clothing. The exercising of a little ingenuity will help eliminate this trouble, officials declared.

Employees who persist in ignoring the regulation will be subject to disciplinary action -- which likely will mean that the violator will be sent home on leave without pay for a period of time.

Outgoing Shipment Regulations Cited

Walter Reiser, Head of Maintenance, calls attention to the fact that arrangements for outgoing shipments must be made through the Stock Section.

"Regardless of the nature of the shipment, the Maintenance Section has no authority to take any orders regarding outgoing shipments except through the Stock Section," he says.

REPRODUCTION AL SAYS:

In preparing figures for reports, MAKE LINES SUFFICIENTLY HEAVY
FOUR TEAMS IN SOFTBALL PLAY-OFF SERIES

With the regular softball season just about over, four teams have earned play-off berths in the NACA league: Full Scale, 8-foot High Speed, West Sheetmetal, and Structures Research. The opening game of the play-off is scheduled for Sept. 7.

A tie for third place resulted when West Sheetmetal and Structures won games last week, the former topping the Tank, 11 to 4, and the latter shutting out FRT, 4 to 0. Two games are scheduled to be played before the championship series, one between FRT and 8-Foot Tunnel, and the other between Air Flow Research and Erection Shop.

Complete details of the play-offs will be given in the next LMAL Bulletin.

TENNIS CLUB PLANS TOURNY SEPT. 5

A one-day tournament is scheduled for Sunday, Sept. 5, at the NACA courts. The elimination matches will consist of single sets in order that the winner may be decided on the same day. All tennis club members are invited to participate in this event.

Some matches still remain to be played in the tournament that was started several weeks ago. The members who have not played their matches are urged to do so as soon as possible.

Tennis club members are reminded that the second installment of their dues should now be paid.

The NACA courts, located on Fox Hill Road near the traffic circle on Langley Field Road, have been in constant use during the past few weeks, so a good turnout for the tournament is expected.

BONDS BUY FREEDOM

CHECKLIST SAFETY QUIZ

1. Defective equipment shall:
   (a) Be used regardless of hazards.
   (b) Be patched up and used anyhow.
   (c) Be reported to the proper authority for immediate correction.

II. A guard or shield around electric arc welding is necessary:
   (a) To keep nosey people away.
   (b) To protect eyesight of others.
   (c) Because the welder wants privacy.

III. Goggles are worn:
   (a) To prevent injuries to eyes.
   (b) To scare the girl next to you.
   (c) To be used for reading.

IV. Women mechanical workers should wear sturdy work shoes because:
   (a) They require No. 19 coupon.
   (b) They help prevent serious foot injury and provide needed support.
   (c) They feel wonderful when you can slip them off.

V. A lighted cigarette or cigar shall not be permitted to rest on furniture because:
   (a) Someone else might take it.
   (b) You don’t do it at home, do you?
   (c) LMAL Employee Safety Rules prohibit it.

(Answers on page 3)
Make Good Showing In Model Contests Conducted In N. Y.

LMAL employees gave a good account of themselves at the model championship contest sponsored last week in New York by the Long Island Sky Lancers.

In the Class B gas model event, Frank Parmenter, West Machine Shop, captured first place with three flights totaling seven and one-half minutes. Joe Dodson, Engineering, won second place with three flights totaling six and one-half minutes. Third and fourth were won respectively by Sal Taibi, East Machine Shop, and Tom Abel, West Machine.

Karl Birkel, West Machine, won second place in the tow-line glider contest and fourth in the Class A gas model contest. Charles Folk was third in the Class A gas model.

"Tex" Weber, formerly of Full Scale Tunnel and now em-
(See page 6)

SOFTBALL SEMI-FINALS BEGIN SEPT. 7

(By Si Diskin)

Play-offs in the NACA softball loop start Tuesday, Sept. 7, with Structures Research meeting 8-foot High Speed Tunnel. On Wednesday, Sept. 8, Full Scale Tunnel and West Sheetmetal Shop will tangle.

Semi-finals will be one-game affairs, while the finals will be extended to a best two-out-of-three series. Finals begin on Monday, Sept. 13 and will be conducted every other day until a decision is reached.

Game time is 6 p.m. and the scene of action will be Darling Memorial Park in Hampton.

The 8-foot Tunnel lost a golden opportunity to tie Full Scale for first place in the regular league play last week when it dropped a 12 to 3 decision to Propeller Research Tunnel. The winners scored eight runs in the first frame.

A complete resume of the season's games, together with a list of all prize winning teams, will be given in the next issue of the LMAL Bulletin.

TAKING DORMITORY APPLICATIONS NOW

Applications from LMAL employees for rooms in the women's dormitories near Kecoughtan Court are being taken now by E. McKinley Hutton, Personnel Office. Applicants must apply in person, although information may be obtained from Mr. Hutton through telephone 386.

Tentative date for completion of the dormitories, which will house 326 women defense workers, is mid-October. Rates will be approximately from $3.50 to $5.50 per week per person. Applications will be placed on file and the applicant notified as to the date she may move in.

It was emphasized that where two girls desire a double room, both must make their applications in person.

CHURCHILL: "Let us not in the present be too concerned with the past, lest there be no future for any of us."

Formal Opening Of USO Slated Friday Sept. 17

Plans are being made for the formal opening of the Industrial USO Center at 106 North King Street in Hampton on Friday, Sept. 17.

One of the features will be a dance, which will take the place of one planned Sept. 11 for computers and engineers of LMAL. It was announced that the dance has been moved up to Sept. 17 to coincide with the USO opening.

Included on the program will be a reception, speeches by leading Peninsula citizens, an entertainment program, and other features.

The Industrial USO has been operating informally for the past several weeks, pending completion of the remodeling and re-furnishing of the building.

Grover K. Gregory served as director for a time. He has returned to his duties as a school principal in Kentucky and has been succeeded by Lee Brown.

The Industrial USO is designed to offer recreational facilities to defense workers in the Lower Peninsula area.

CONDOLENCES: To Starr Truscott, on the death of his mother, in Ohio; to Melvin N. Gough, on the death of his mother, in Baltimore; to John and Marsena Ankeney, on the death of their father, in Hampton; to Virginia Smith, Aircraft Loads, on the death of her father, in Charleston, West Virginia.
The wheels of research will continue to hum on Labor Day as LMAL employees report for duty, putting aside thoughts of a holiday until we are able to enjoy it in a fashion which has been our want.

President Roosevelt has told us that there will be no more holidays, except Christmas, until the threat of Axis warlords has been stamped out. But he did not have to tell us. No real American can afford to relax his efforts now.

This Labor Day, as on other days as long as this war lasts, we must take to heart the important words of our Commander-in-Chief, who said:

"Victory cannot be bought with any amount of money, however large; victory is achieved by the blood of soldiers, the sweat of working men and women, and the sacrifices of all people."

AN LMAL MAIDEN GOES SATURDAY NIGHT SHOPPING!

CLEVELAND CLIPPINGS

AERL IS MAKING progress in its campaign to pass LMAL in the percentage of employees subscribing to the payroll authorization plan. An early report shows that through special solicitation, 28 new subscriptions were obtained and 243 persons increased their present allotments for bonds. According to Wing Tips, AERL newspaper, the drive will not be concluded until the Clevelanders are on top.

A RECITAL of classical music was offered Sept. 2 in the AERL Administration Building, under direction of Fred Bonnie, Jr. The NACA orchestra offered the music, and W. C. Malin, Personnel Director, was narrator.

THE CLEVELANDERS are planning a "Frisk" Dance Sept. 18. Just what a "Frisk" dance is will remain a secret until the night of the affair, the sponsors say.

THE NATIONAL Inventors' Council met recently at AERL to discuss the best inventions and ideas submitted during the past month to make the war effort more effective. Among those present was Dr. Orville Wright, who said he believed the helicopter will advance to outstanding usefulness.

THE GIRLS' BOWLING league will get under way Sept. 17. Double elimination play-offs in the AERL softball league have begun.

BONDS: A good buy

LABORATORY EMPLOYING ADDITIONAL PERSONNEL

The Laboratory is in need of additional non-draft eligible personnel. The following is a list of the type workers who are needed most: Women workers, model-makers, stenographers, engineers, and mechanics, including automotive and aircraft.

If you have a friend who might qualify for one of the positions described, refer him to the Personnel Office.
VACATION RHAPSODY

THOSE STILL AWAY: Doris Topping, PRT, at home in Charlottesvile; Emily Bagnall, Pay Roll, in Wilmington, N.C.; Catherine Watkins, Leave, at home in Pittsburgh; Kathleen Harris, Personnel, sojourning "hither and yon"; Lorene Williams, Bonds, at Paragould, Ark.; Ed Howe, Administrative, visiting points of interest; Anna Boardman, LW Purchase, in Armitad, LW Purchase, in Ark.; Ed Howe, Administrative, home in Pittsburgh; Kathleen Philyaw and Jerry Teplitz, 19-Inv. No. 21364, is missing from the warehouse. It is walnut finished, with left side well. Will holder please notify Johnnie Bergbom, telephone 384.

THOSE STILL AWAY: John A. De Monaco, Dynamic Model Shop.

FOR SALE: Two metal folding cots and mattresses; John A. De Monaco, Dynamic Model Shop.

Saves Plane, Instruments By His Daring

Oldtimers remember Tom Carroll, early-day NACA test pilot who was among the pioneers to help mould the tradition of the Langley Laboratory.

Friends enjoy recalling the time Carroll saved a plane and valuable research instruments by a little acrobatic daring on the wing of a plane in flight, and through the use of a screw driver.

Strap Boxes Of Sand To Wings

Carroll went up in a biplane here one day to determine the effect on the stability of the airplane of unequal weight distribution. Boxes of sand were strapped to the wing tips and when the proper altitude was reached, he was to pull a cable which would open a trap door to empty one of the boxes. With the craft thus purposely unbalanced, he could conduct his tests at a safe altitude, and, when ready to descend, dump the sand from the other box.

The tests completed, Carroll was dismayed to discover when he pulled the release to empty the second box that the wet sand had frozen solid.

He Does Some Quick Thinking

The airplane in this condition was unstable, and Carroll had to do some quick thinking. He did not want to jump, for he was aware that invaluable flight test instruments and recorded data would be lost.

So, with one wing dropping under its load of sand, Car­roll climbed out on the wing, leaving the airplane pilot­less. Balancing himself against the slipstream, he dug the frozen sand out with a screw driver and later brought the plane down safely.

Carroll, who left LMAL about 1930, is now employed by the Drexel Furniture Company of Drexel, N.C., a firm which is engaged as a sub-contractor for the manufacture of wooden parts for airplanes.
BULLETIN MAY CHANGE NAME; HAVE YOU AN IDEA?

The Bulletin is going on a fall shopping tour! One item it hopes to obtain is a new masthead design; and perhaps a new name. It all depends on the comments we receive from Laboratory employees.

When the Bulletin was born late last year, the name selected was intended as a temporary one. No effort has been made to change the name, although it has been suggested that a name which describes the type of activity going on at LMAL would be more appropriate.

Appearing below is a brief form which we hope every member of the staff will fill out and return to the Bulletin Office. If you have any suggestions for improving the Bulletin, please list them; if you would like a new name, say so, and if you have a suggestion for a new name, please let us have it.

Please fill out and return to Bulletin Office

Suggestions:

Do you want a new name?
Suggest a new name:

TENNIS CLUB HOLDS TOURNAMENT SEPT. 5

The NACA Tennis Club will hold its second one-day tournament of the season Sunday, Sept. 5, starting at 1 p.m. It is expected that some of the old-time members of the tennis club will show up to give the newcomers some stiff competition.

Some tennis players have obtained a little diversion from their regular game lately by playing badminton. A badminton court has been set up on one of the former tennis courts. Aeronautically-minded NACA men have found a practical application for the laws of lift and drag in trying to follow the antics of the shuttlecock in a strong wind.

The NACA courts may now be reached by car, bus, or bicycle. They are located on Fox Hill Road, a short distance from the new traffic circle on Langley Field Road.
Transportation Survey Made

A survey has recently been made of the transportation problems of employees, to ascertain what improvements or additions could be made in assisting members of the Laboratory. This survey covered both day and night shifts, with particular reference to the night shift.

A surprisingly few cases were found to indicate that the combined efforts of the employees and the Laboratory riding service were not entirely adequate. The cases found were usually in the process of changing from one shift to another and usually had not brought their difficulties to the attention of anyone outside of their own section. This is commendable as far as the efforts of the employee go, but after exhausting local facilities, it would be well to remember that the Laboratory offers a transportation service that has been particularly successful. It can be reached on phone 377 between the hours of 8:15 a.m. and 4:45 p.m., which overlap both early and late shifts.

Employees are urged to avail themselves of this service if they are unable to solve their own problems. Any emergency arising at the last minute on the night shift may be solved by calling the night clerk on phone 244. Employees who are stranded at Langley Field after public transportation has ceased, can probably be assisted by the night clerk, since he has access to information concerning employees on odd shifts who are leaving the Field at intervals during the night.

DIED: Al Pledge, General Electric, frequent business visitor to LMAL, died unexpectedly in Richmond Wednesday night. It is not known here as yet who will succeed Mr. Pledge.

Life at the Laboratory

LET'S HAVE A PARTY: The "Do-Boys and Girls" of the 16-foot Tunnel concocted a new beverage at a recent party in Hampton. The engineers named it "Pepsi-Wilbur". For information on the ingredients to use, contact one of the "Do Boys".... Aircraft Loads enjoyed a picnic Sunday, Aug. 29, and about 75 attended despite the rain. The section's one-piece orchestra, Accordionist Angie Cartabiano, furnished the music.... The Library staff and guests will hold a wiener roast Sunday, Sept. 5, in the yard of Betty Gilman's home.... The results of the experiments conducted by the FFT Section at Virginia Beach were peeling noses and slightly damaged fuselages due to uncontrolled sun rays, football, and softball games, and an abundance of fried chicken. Even with these results, the Section considered the experiment highly successful.... 16-foot Tunnel employees held a skating party Wednesday night, Sept. 1, at Stuart Gardens.

COLLEGE LIFE: Jacqueline Elliot, I Purchase, has departed the Lab to resume her studies at Mary Washington College.... Rosamund Putzel, Tank No. 1, is entering Salem College in Winston-Salem. N.C.... Mary Elizabeth Wright, and Maxine Beachum, Stenographic, leave soon to matriculate at Elon College, Elon, N.C.

MISCELLANY: Quick, Henry, the aspirin! The PRT is having a headache over so many presents to buy; and it can't afford a picnic. Now that Abe Cohen is entertaining his heartbeat from New York, and Arvid Keith has returned from his home in Durham, it fears the worst again.... Mary Jean Prince's title of "reckless driver" is reportedly being threatened by Marilyn Lawlor, who received a little ticket from a gentleman in blue recently. Jeanie is generally pretty lucky on this score, however; she flirts her way out. .... How did Nancy Wall, 16-foot Tunnel, get all those nicknames.... David Goldenbaum, Tank, has finally become a poppa. Now his co-workers may settle down. Dave reports the new arrival to be an 82-pound son, Paul Ernest, born Saturday, Aug. 28.... Virginia Bangsberg, Reproduction, and Jacqueline Cook, ICL, have gone to La Crosse, Wis., from where they will go to Minneapolis to attend the wedding on Sept. 11 of June Wyatt, Reproduction.... Newly-weds Charlotte and Jim Delano were out on sick leave last Monday and friends are wondering if Charlotte's cooking was to blame.

REPRODUCTION AL SAYS: In preparing figures for reports, MAKE LETTERS OF PROPER HEIGHT.

PLAN FORMATION OF BOWLING LOOP One or more bowling leagues are being formed by E. McKinley Hutton, Personnel, beginning in October. Any one interested has been asked to communicate with Mr. Hutton, telephone 386, who is accumulating certain necessary information preliminary to organizing competition.

Mr. Hutton needs to know whether you prefer ducks or ten pins; what alleys you want to use, and the most convenient time for starting the contests.
CORRECT WAY TO LIFT!

Crouch beside the article you wish to pick up. Secure a strong hold on it and then stand up, using the muscles of your legs and arms to bring up the weight!

IF YOU CAN'T PICK IT UP

MAKE GOOD SHOWING

(From page 1)

ployed by Pratt and Whitney, Hartford, Conn., won first in the Class C gas model event, and also had the longest single flight of the meet—seven minutes and 22 seconds.

Ed Yulke of the Sky Lancers and also a writer for Air Trails Magazine, was director of the contest.

Those from here who attended: Frank Cisco, Dick Sladek, Bill Slade, Gene Hicks, Carl Cecil, Bert Miller, Ralph Moscater, Paul Marchal, Fred Waller, George Sadler, George Gentry, John Kall, C. R. Molisee, H. Jones, Bill Burke, Ed Janov, Mickey Beichman, V. J. Serio, Norman Chaney, George Evalenko, Arley Uhrig, Dodson, Parmenter, Folk, and Birkel.

The group visited Coney Island before returning to the Lab.

Musical Musing

Private George C. Drake again visited the LMAL Musical Group at its weekly rehearsal at the USO on Tuesday night, and with Mary Noble Angel at the piano, the club rehearsed about five numbers. The rendition of one selection "a capella" proved what regular practice and some hard work can produce because it rang remarkably true; even the director was gratified.

Under Private Drake's direction, the chorus had a first-rate opportunity to sight-read one of the new numbers of Fred Waring's arrangements for glee clubs, namely "When Johnny Comes Marching Home." You would have thought the whole Eighth Army was marching, with all the "ding dongs" and "drum drums" boomed out by the basses. The result nearly shook the USO to its foundations. That number will require some good hard practice.

After the rehearsal, Howard Garris presided over a brief business session. Plans were made to hold the regular election of permanent officers for the coming year on the last Tuesday in September.

Promptly at 7:30 p.m. Tuesday, Sept. 7, the group will meet for its regular rehearsal.

FIFTEEN PER CENT: It's not too much.

LOST: One each of the following: Engineers scale, Inv. No. 5387; 12" Steel rule, Inv. No. 7622; 50' Steel tape, Inv. No. 13966; 50' Steel tape, Inv. No. 18710; Clothing cupboard, Inv. No. 16263; Storage cabinet, Inv. No. 18427; Straight leg chair, Inv. No. 2969; Reversible protractor head, Inv. No. 19130; Bentsteel chair, Inv. No. 1977; Bentsteel chair, Inv. No. 16949, and three Starrett dial indicators, Ser. No. 19330, 19344, 19350. Please notify Structures Research Division if the whereabouts of any of the above items is discovered.
MRS. HULCHER IS WOMEN'S COUNSELOR

Mrs. Lenore D. Hulcher, of the Selective Service Section, an active participant in civic activities on the Lower Peninsula, has been appointed as women's counselor at the Langley Laboratory, according to an announcement by Administrative officials.

Mrs. Hulcher has moved to her new office in the Personnel Section, first floor of the Technical Service Building, and may be reached through telephone 386.

PLAN ENTERTAINMENT AT DANCE SEPT. 17

Plans are virtually complete for the big dance to be held on Friday, Sept. 17, at the Hampton Armory in conjunction with the official opening of the Industrial USO center in Hampton.

The dance will be from 9 to 12 and music will be offered by Eddie Travis and his Chamberlin Club Orchestra. There will be an open house at the USO from 7 to 9.

At the dance, brief addresses of welcome to war workers on the Peninsula will be delivered by Henry J. E. Reid, Engineer-In-Charge, and Mayor James V. Bickford of Hampton. Efforts are being made to have also Lieut. Col. William H. Hine, Commanding Officer of the 51st Sub-Depot at Langley Field, as a speaker.

There will be a short entertainment program at the dance, in charge of "Tiny" Hutton, Personnel. One of the features will be songs by Dick Giersch, NACA baritone. The complete entertainment program will be announced later.

All plans for the gala night are in charge of Madeleine Smalley, assistant director of the Industrial USO, who announced that all war workers from Langley, Fort Monroe, and Hampton are invited.

REGISTRATION FOR CLASSES SEPT. 20-21

Registration for University of Virginia extension classes will be held on Sept. 20 and 21 at the John W. Daniel School in downtown Newport News. Classes will be held at the Daniel School and at the Hampton High School.

If eight or more students register, any course in engineering or allied subjects will be offered. Courses taught last year, and which are expected to be repeated this year, include:

- Trigonometry, analytical geometry, integral calculus, differential calculus, differential equations, functions of a complex variable, vector analysis, operational calculus, mathematical analysis, numerical mathematics, mechanics, physics, quantum mechanics, strength of materials, theory of elastic stability, mathematical methods in engineering, thermodynamics, vibration problems in engineering, aerodynamics, naval architecture, marine engineering, electronics, advanced electronics, direct and alternating current systems, and other courses as demanded.

MRS. HULCHER IS WOMEN'S COUNSELOR

In discussing Mrs. Hulcher's duties, Laboratory officials explained that she will handle problems that arise in connection with women employees. She will aid them in becoming oriented in their work at LMAL, will seek to make their work more pleasant, and will otherwise assist women workers in assuming their place in the important war program under way here.

Women employees are ad-

(See page 6)

Green Cow Plans Dance For Oct. 2

Get out your dancing slippers and your best smile. The Green Cow is active again!

T. Melvin Butler, chairman of the Noble Order of Green Cow, announced that the organization will sponsor a fall dance the first weekend in October.

Although definite arrangements will be announced in a subsequent issue of the Bulletin, it is hoped that the affair will be held at the Grand View dance pavilion on Saturday, Oct. 2, with a local orchestra offering the music.

This will mark the first Green Cow dance since early summer.

(See page 8)
The LMAL Bulletin is prepared and published at the Langley Memorial Aeronautical Laboratory of the National Advisory Committee for Aeronautics, Langley Field, Virginia, in the interest of LMAL employees. Contributions of news and art should be sent to the Editor, in the Administration Building. The telephone number is 376.

Editor, .............. H. Lee Dickinson
Associate Editor, ......... Hugh Angel
Art Editor, .............. Ben Vogel
Reporters .............. LMAL Employees

"With these new pennies—when no one’s looking I slip in a dime and get just as much!"

The final standings:

<table>
<thead>
<tr>
<th>Team</th>
<th>Won</th>
<th>Lost</th>
<th>Pct</th>
<th>Games Behind</th>
</tr>
</thead>
<tbody>
<tr>
<td>1. Full Scale Tunnel</td>
<td>11</td>
<td>1</td>
<td>917</td>
<td></td>
</tr>
<tr>
<td>2. 8' High Speed Tunnel</td>
<td>10</td>
<td>2</td>
<td>833</td>
<td>1</td>
</tr>
<tr>
<td>3. Sheetmetal Shop</td>
<td>9</td>
<td>3</td>
<td>750</td>
<td>2</td>
</tr>
<tr>
<td>4. Structures Research</td>
<td>9</td>
<td>3</td>
<td>750</td>
<td>2</td>
</tr>
<tr>
<td>5. 19' Pressure Tunnel</td>
<td>8</td>
<td>4</td>
<td>667</td>
<td>3</td>
</tr>
<tr>
<td>6. Stability Research</td>
<td>7</td>
<td>5</td>
<td>583</td>
<td>4</td>
</tr>
<tr>
<td>7. Propellant Research Tunnel</td>
<td>7</td>
<td>5</td>
<td>583</td>
<td>4</td>
</tr>
<tr>
<td>8. Erection Shop</td>
<td>5</td>
<td>7</td>
<td>417</td>
<td>6</td>
</tr>
<tr>
<td>9. Air Flow Research</td>
<td>4</td>
<td>8</td>
<td>333</td>
<td>7</td>
</tr>
<tr>
<td>10. Tank</td>
<td>2</td>
<td>10</td>
<td>166</td>
<td>9</td>
</tr>
<tr>
<td>11. 16' High Speed Tunnel</td>
<td>2</td>
<td>10</td>
<td>166</td>
<td>9</td>
</tr>
<tr>
<td>12. West Machine Shop</td>
<td>2</td>
<td>10</td>
<td>166</td>
<td>9</td>
</tr>
<tr>
<td>13. Flight Research Maneuvers</td>
<td>1</td>
<td>11</td>
<td>083</td>
<td>10</td>
</tr>
</tbody>
</table>

**VACATION RHAPSODY**

THOSE STILL AWAY: Ruby Womble, AWT, at home in Moncure, N.C.; Lucette Biver, Cost Office, in Wilmington, N.C.; Florene Salcon, Duplicating, at her husband’s parents’ home in Revenna, Ohio; Harold I. Maxwell, Engineering, at home in West Virginia; Ben Vogel, Engineering, in New York.

THOSE RETURNED: Everett Dunlap, IRL, from home in Maine; Abraham Ruvin, IRL, from New York; Uncle Bill Schuler, IRL, from a vacation at home where he conserved gas and tires; Helen Northcross, East Area Computing, from home in Corinth, Miss.; Virginia Tucker, Head of East Area Computing, from a week-end at home in Hertford, N.C.; Maj. Rose Carlock, from a vacation at home where she conserved gas and tires; Helen Northcross, East Area Computing, from home in Hertford, N.C.; Varina Rhode, AWT, from home in Richmond; Hilda Snider, AWT, from Buena Vista; Ann Timberlake, from home in Frederick; Nancy McCarthy and Jenny Bartoshesky, Circulation, from Baltimore and Delaware; Helen Harding, Full Scale, from Atlantic City and Cape May; Bill Ramsey and Joe Dodson, Engineering, from Clarkesburg, West Va., where they were guests of Robert E. Davis, NACA employee who is recovering from a recent illness.

**CLEVELAND CLIPPINGS**

DEFTLY TOUCHING highlights of music from 19 centuries of composers, Fred Bonnie, Jr., Carl Piepenburg, and the NAGA Orchestra captivated their Cleveland audience last week at a recital.

PEARL I. YOUNG, former head of the LMAL Editorial Office, and her AERL editorial staff, were pictured in a writeup in Wing Tips. Pearl came to the Langley Laboratory from North Dakota University 21 years ago.
LMAL WAR BOND SALES INCREASE

LMAL's war bond record went up during August, as an increase being noted in the percentage participating, amount allotted on the pay roll, percentage allotted, and the average allotment.

The Laboratory is still short of its goal of 15 per cent participation. Personnel Office employees, however, have promised to accelerate their bond selling campaign during this month in an effort to better the record.

There were 2,076 of the 2,154 employees participating in the program in August, a percentage of 96.37. This was a one per cent increase over July.

A total of $49,152.84, or 11.76 per cent of the $417,694.55 pay roll, was allotted for bonds, an increase of about one-fifth of one per cent over the previous month.

The average allotment was $23.68 as compared with $23.28 in July.

A Personnel Office interviewer reported that of 31 persons who entered on duty by the next meeting date, obtaining one and the Engineers two runs. The various Army camps on the Peninsula are requesting the group to sing for them and will gladly furnish transportation toánd from camp for the singers. The group decided to perform for the soldiers after three more intensive rehearsals. Attendance of old members is urged and new members will be welcomed.

Change Meeting Night

Due to conflict with the coming night defense classes and the regular meeting of the Newport News Operatic Society, the night of rehearsal was changed to Wednesday instead of Tuesday unless there are definite objections presented by the next meeting date. Accordingly, the next rehearsal will be held on Wednesday, Sept. 15, at the USO promptly at 7:30.

The first annual meeting will thus be held on the last Wednesday of September, the 29th. The constitution will be approved in its final form, name of the organization will be selected, and officers for the coming year will be elected. Those members present at the annual meeting, whose dues of $1.50 per annum have been paid, will be registered as the charter members of the group.

Present Nominations

In accordance with the constitution, a list of nominations for officers will be presented at the next regular meeting. These nominations may be added to by petition.

BONDS: A good buy

SOFTBALL CONTEST PRODUCES PLENTY OF HITS, RUNS, ERRORS

Every heart in the Engineering Section tingled with anticipation. For days the boys had practiced faithfully to insure excellent performances. Now the time was here and the first annual softball game between the Engineers and the Draftsmen was about to begin.

The Engineers trotted to their positions amid the cheers of their loyal followers. Ump "Cliff" Link called "Batter up!" and Frank Read, lead-off man for the Draftsmen, stepped to the plate. He was walked by pitcher Schumacher, but didn't have time to relax on first as his team let loose with a ten-run rally. In the Engineers' half of the first, they were required to go in order.

The second inning was close. So was the third, both teams making only four runs apiece. The fourth inning passed quickly, the Draftsmen obtaining one and the Engineers two runs. The Engineers made six runs in the fifth through the aid of a long hit by Levitt who turned it into a homer when Ezell lost the ball in the high weeds. The Engineers made two more in the sixth while the Draftsmen went scoreless. After the Draftsmen scored three times in the seventh, they settled down to winning the ball game behind good twirling by Vergil Kontak.

The final score: Draftsmen 20 runs, 18 hits, 8 errors; Engineers, 15 runs, 12 hits, 8 errors.

The result: Everybody had a good time.

BIG ONE: The first $1,000 bond to be issued through the LMAL pay roll allotment plan was delivered the past week to William C. Morgan. In case you never expect to see one, it has a picture of Lincoln.
TO PLAY SOFTBALL FINALS THIS WEEK

In a semi-final softball contest played Tuesday, Structures Research shut out 8-foot High Speed, 6 to 0, advancing to the finals which will be a two-out-of-three game series scheduled for Monday, Wednesday, and Friday of this week. Game time is 6 p.m. and the place is Darling Park in Hampton.

Only two 8-foot Tunnel players reached first base in the Tuesday's game as Si Diskin limited them to one scratch hit and a walk. He received stellar support, especially from Kotanchik and Woods who made several spectacular catches and fielding plays.

The winners smashed out 12 hits, including a triple and two doubles. Burly Baals went the route for the loser.

Structures opponent in the title series will be Full Scale Tunnel, who defeated West Sheetmetal Shop in a semi-final game Thursday, 5 to 4.

Roy Lang pitched for Full Scale and Carl Cecil for Sheetmetal. Some fast last-inning fielding cut short a Sheetmetal rally.

FULL SCALE SOFTBALLERS ENTERTAINED BY COMPUTERS

Full Scale Tunnel computers entertained the softball team at a dinner at the Hi-Hat Wednesday night. Abe Silverstein was master of ceremonies. Clint Dearborn made sketches of the various players, and Texie Belle Felts gave a brief dissertation on each sketch as they were shown around the table.

WINS TROPHY: V. J. Serio, Jr, Engineering Section, won the Hampton One Design sailboat race sponsored on last Sunday by the Hampton Yacht Club. Serio was accompanied by his father, designer of the famed Hampton One Designs.

GOLF TOURNAMENT SUNDAY, SEPT. 26

Members of the Langley golf link plan to stage a tournament on Sunday, Sept. 26. Partners will be determined from the results of qualifying nine to be played by Thursday, Sept. 23. The scores for each nine must be recorded on the game chart posted at the club house.

A fee of 50 cents per player for the sand trapper's meal has been agreed upon and the official play time is set at 9 in the morning.

Partners will smash out a combined score in competition for prizes to be presented to the winning pair. Other prizes for both singles and doubles will be presented.

For further information about the tournament communicate with Dale Burrows, phone 350.

Those who played during August and choose not to play on the Langley link during September are reminded to turn their cards in at once.

ORGANIZING TOUCH FOOTBALL LEAGUE AT LMAL

Another sporting activity is being organized among LMAL employees--touch football.

The league schedule will get under way by Oct. 1. Each team entered will send one or more members to a meeting, to be announced later, for the purpose of formulating all rules for league games.

Any section interested in participation may communicate with Schumacher, Engineering Section, 251; Nuber, Air-Flow Research, 249, or Link, East Model Shop, 254.

A WINNER

"My Lady", 34 foot cutter owned by two LMAL men, Paul Hill and Ray Hanson, has proved that she is an able contender for racing honors by winning two cups in the Hampton Yacht regattas. Entered in the "free for all" race July 4 and in the Class B cruisers in the Labor Day race, she placed first in each.

The craft was brought to Hampton from Galesville, Md., in April by Don Brimley and Hill. Hanson, with the assistance of Hill and Brimley, has twice skippered "My Lady" to victory.
HYDRO CONTEST TO BE LARGEST EVER CONDUCTED

The Brain Busters model seaplane championships to be held Sunday, Sept. 19, at a lake near the Langley Field traffic circle, will be the largest hydro contest for models ever conducted, it was announced by officials of the local model club.

Five hundred dollars in trophies, war bonds, medals, and merchandise will be awarded the winners. The largest array of trophies given by any model club since the war began is on display in the show window of Wertheimer-Conner.

Requests Help

Carl Cecil, contest director, has requested that any one wishing to help at the meet by timing or officiating in some other way, please get in touch with him as soon as possible.

Entry blanks are available at the Industrial USO in Hampton and at the West and East Machine Shops. They should be filled in and returned to Charles Folk, West Machine Shop, not later than Wednesday, Sept. 15.

The Victory Banquet will be held at Cutler’s Restaurant in Hampton at 7:30 p.m., following the contest. The prizes will be awarded at this time.

The Brain Busters meet at 9 p.m. Sunday, Sept. 12, at the Industrial USO.

Members of the club who participated in the West Virginia State model meet Labor Day won nine places. Dick Sladek captured first in gas with one flight of 9 minutes and 36 seconds. Dick Everett and Joe Boyle were fourth and seventh, respectively. In the rubber-powered event, Dick Sladek won second in the open class. Bill Ramsey got a first in cabin and second in stick, and a sixth in the towline in the senior class. Everett won third in the open rubber and Boyle fifth.

Life At The Laboratory

LOVE FINDS A WAY: Mary Jean Prince, Personnel, and Bill Thompson, formerly of Personnel, who recently returned from a trip to North Africa as a Merchant Mariner, will culminate their laboratory romance at 5 o’clock Sunday, Sept. 12, in a wedding ceremony at the First Presbyterian Church in Newport News. Kay Kelsey, AWT, will be maid of honor; Mrs. Richard Prince, Jr., matron of honor; Pat Patterson, Personnel, and Frances Leigh, Files, bridesmaids; Lenore Hutcher, mistress of ceremonies; Melissa Butler, best man; and Joe Burke, Paul Taylor, and Bill Craig, groomsman. Marjorie Saunders, information, will offer the organ music. There will be a reception after the wedding at Mary Jean’s home.

MISCELLANY: Christine Boyd has left the 19-foot Tunnel to return home in Mississippi. Sara Whiteley, AWT, has been ill at home in North Carolina. Helen Hanks, formerly of LW Purchase who was transferred to AERL, is now working in L Purchase. Flossie Small leaves L Purchase Sept. 20 to join the WAVES. Lois Willis has bid farewell to the Library girls to return to school. Lelitta Cassidy has returned to Duplicating after recovering from an appendectomy. Willard Miller, IRL, reports that his chicken farm yields at least three eggs a day. Note to Harry Ricker, Jr.’s friends: he prefers the name “Junior.” Florence Stoddard, IRL, has returned after a long absence.

LET’S HAVE A PARTY: The 16-foot Tunnel will hold a picnic at the Gloucester Country Club Sunday, Sept. 12. L Purchase will have a wiener roast on the East Lawn of the Warren Gilmans Sunday, Sept. 12, and nothing harder than water will be served. Mary Anne Bartoshinakovy proved to be the champion eater at the “Roman Feast” enjoyed last week by the File and Messenger girls, at the home of Indie Atkins. 

“Bring your own ice cubes next time” was the only comment heard after the FFM party at J. R. Thompson’s. Tom Hutchers was the hero of the Apprentice Administration hayride to Grand View. He killed a black widow spider that was about to claim Elizabeth Scott as a victim.

QUADRUPELTS: The stork played favorite last week when it left quadruplets for “Mrs. Cornelia Otis Skinner,” proud member of FMM’s esteemed personnel. Extraordinary recognition of gratitude was shown by “Connie” when she bestowed upon her sightless offspring the following names: Rudolph Valentino, Marconi, Nicodemus, and William Shakespeare. But for short, she just calls them “Val,” “Mark,” “Nick,” and “Bill.”

TANKS, PAL: The Tankers held a softball game and picnic at Grand View on Sunday, Sept. 5. Tank No. 2 topped Tank No. 1 in the softball game, 9 to 3. A.M. Tankersley, better known as Tank No. 3, performed for Tank No. 1 but proved to be the star for Tank No. 2. Another highlight was the watermelon fight between Janice White and John R. Dawson. Both ended up by washing the other’s face.


TUNNEL ROMANCE: Catherine Richardson, Head of the 16-foot Tunnel Computing Section, and L. Irving Turner, Jr., Assistant Head of the 16-foot Tunnel, are planning to be married during the latter part of this month.
"The maintenance of university standards," Mr. Baker comments, "has established the credit status of those courses already offered and there is no reason to anticipate a change of policy. Thus, should any student decide to pursue his studies in the higher branches of civil, electrical, mechanical, or aeronautical engineering at the university or elsewhere, these evening class credits may be applied toward a degree, provided full entrance requirements are satisfied."

No specific qualifications for entry into these evening classes have been laid down. The ability to take advantage of the instruction offered is all that is needed. For each course a fee is charged, which partly defrays the expense of the course and which serves as tangible evidence of the good intention of the student.

Further information may be obtained at the Laboratory from I. E. Garrick, PRD; R. E. Street, ARF, or Charles Hastings, Instrument Research.

SOFTBALL STATISTICS

The best offensive record during the LMAL softball league season went to West Sheetmetal Shop for averaging 11 runs per game. Full Scale was close behind with ten.

Structures Research rated the best defensive record, limiting its opponents to an average of three runs per tilt. This mark included five shutouts. PRT was second, allowing four runs per game.

Monetary prizes were awarded the following teams in proportion to their offensive and defensive records: 1-Structures; 2-19-foot Tunnel; 3-Full Scale; 4-West Sheetmetal; 5-8-foot Tunnel; 6-PRT; 7-Erection Shop; 8-Stability Research, and 9-Air-Flow Research.

Full Scale won a $15 cash prize for finishing the regular season in first place. Additional prizes will be awarded the finalists after the play-offs.

You've missed a treat if you haven't seen the teams in action. Make it a date for the finals.

DON'T LET AN ACCIDENT SHORTEN YOUR TIME ON EARTH

MRS. HULCHER

(From page 1)

visited to take up any personal problems affecting their work at the Laboratory with Mrs. Hulcher, who will not only be available at her office but will make frequent visits to the shops, offices, and laboratories where women are employed. She will also be at the Laboratory some evenings.

Mrs. Hulcher, who has been employed at the Laboratory a little more than a year, is a graduate of Hampton High School and attended Mary Washington College. She has served variously as a member of the board of directors of the Hampton Red Cross Chapter, as corresponding secretary of the Hampton Junior Woman's Club, as a Gray Lady (Red Cross corps) for four years, as a USO hostess, and as chairman of the welfare committee of the Syme-Eaton Community Center in Hampton.

Mrs. Hulcher and her husband, Charles A. Hulcher, Apprentice Administrator, recently observed their tenth wedding anniversary.
BOND DRIVE BEGINS

WE MUST BACK THE ATTACK!

The Third War Loan campaign to raise $15 billion to help finance the war continues through this month. This is a total war; our goal is total success—"unconditional surrender". But first of all our war loan effort must be a total success.

The NACA is the No. 1 agency of the Federal Government, heading the Government's honor roll in the purchase of bonds through pay roll subscriptions. Now we must buy our regular pay roll allotments to an average of 15 per cent of the whole organization.

Our fighting men are on the march to victory. We must back their attack with more bonds.

BOND EXTRA

Will Interview Each Employee

The Langley Laboratory has embarked on a huge bond selling effort as its part in the Third War Loan campaign which continues through this month.

The goal: to make cash sales of $100,000 worth of bonds (maturity value) and to increase to 15 per cent the allotment of every employee under the pay roll savings plan.

Every employee will be interviewed personally by selected solicitors during the far-reaching campaign. Starr Truscott, Chief of Hydrodynamics, is chairman of a three-man campaign committee whose other members are Percy Crain, Head of the Electrical Section, and Joseph Kotanchik, aeronautical engineer in the Structures Research Division.

Members of the committee have already conferred and formulated plans of action. They will name solicitors for the various sections and will instruct them in bond selling.

Mr. Truscott has charge of the solicitation in the Full Scale Tunnel area; Mr. Crane in the Administrative Building area; and Mr. Kotanchik in the entire West Area.

Every employee will be asked to buy in cash the difference between his present allotment and 15 per cent of his gross monthly income (The five per cent allotment increase will be pledged now, but will not be deducted from the pay check until next month).

In explanation, let's use a $2,000 base pay salary as an example: The monthly gross income (including overtime) from such a salary is $202.76. Figuring that ten per cent ($20) is already being deducted for bonds, an employee in this category will be asked to buy one $50 bond (maturity value) in addition to increasing his monthly allotment to 15 per cent.

Where an employee is already giving more than is being asked during the present campaign, he will be urged to make whatever cash purchase he feels his budget will allow.

DRIVE IS ON: LMAL's participation in Third War Loan campaign got under way with a smashing start as Dr. William A. Aery (right) produced $750 for a $1,000 bond. He is being signed up by E. McKinley Hutton, Personnel Section.
INVEST 15 PER CENT EVERY PAY DAY IN BONDS

Why Are You Buying Bonds?

The following LMAL employees, who are among the select set investing 15 per cent or more in bonds, gave the following answers to the question: "Why are you buying bonds?"

Viola Ohler, Editorial: "Putting 15 per cent of my salary in war bonds is one systematic way of saving money for me. Also, I have a married brother in the Army whom I want to see back in his own home soon, and my little contribution might help toward that end."

Helen Wheary, Personnel: "It's the best way I know of to save money and I feel that it's the least I can do to help the war effort."

James N. Benson, Tank: "There isn't much else to spend it for right now. Banks have reduced their interest rate and it appears to be a good investment."

Dennis J. Martin, PRL: "It's the only way I can save money."

Earlene Squires, Stenographic: "So the war may be over a little sooner and all the boys can come back home."

E. McKinley Hutton, Personnel: "To safeguard my home. I'm not sure what my job will be when the war is over or whether I'll have a job. I'm buying a home now and I want to make sure that I have some means of keeping up the payments."

Warren Gilman, L Purchase: "It's my investment in the future."

---

| Denominations of bonds purchased at various semi-monthly salary deductions. | Bond denominations purchasable under allotments indicated |
|---|---|---|
| Amount of semi-monthly allotment | Number of pay periods required to purchase a bond | $25.00 | $50.00 | $100.00 |
| $3.75 | 5 | 1 | 1 | 1 |
| 5.00 | 15 | 1 | 1 | 1 |
| 6.25 | 3 | 1 | 1 | 1 |
| 7.50 | 5 | 1 | 1 | 1 |
| 8.75 | 15 | 1 | 1 | 1 |
| 9.38 | 2 | 1 | 1 | 1 |
| 10.00 | 15 | 1 | 1 | 1 |
| 12.50 | 3 | 1 | 1 | 1 |
| 15.00 | 5 | 1 | 1 | 1 |
| 18.75 | 1 | 1 | 1 | 1 |
| 20.00 | 15 | 1 | 1 | 1 |
| 22.50 | 5 | 1 | 1 | 1 |
| 25.00 | 3 | 1 | 1 | 1 |
| 30.00 | 5 | 1 | 1 | 1 |
| 37.50 | 1 | 1 | 1 | 1 |
| 45.00 | 5 | 1 | 1 | 1 |
| 50.00 | 5 | 1 | 1 | 1 |
| 52.50 | 7 | 1 | 1 | 1 |
| 60.00 | 5 | 1 | 1 | 1 |
| 70.00 | 15 | 1 | 1 | 1 |
| 75.00 | 1 | 1 | 1 | 1 |
| 82.50 | 15 | 1 | 1 | 1 |
| 100.00 | 3 | 1 | 1 | 1 |

*Bonds may be issued and delivered as paid for.

**Bonds may be issued and delivered as paid for or dated back to the first of the month in which the average pay period falls.
HOLD HYDRO MEET SEPT. 19

THIRD WAR LOAN GETS UNDER WAY; SOLICITORS BUSY

LMAL's Third War Loan campaign is well under way and solicitors are making their rounds in quest of the Laboratory's goal during this month of cash bond sales of $100,000 (maturity value) and pledges increasing individual pay roll allotments to at least 15 per cent of gross monthly income.

Shortly after a meeting of solicitors in the West Area, under the direction of Joseph Kotanchik of the Structures Research Division, the Apprentice Administration made bond purchases equal to 103 per cent of the group's September income at the Laboratory and increased their monthly allotments to an average of almost 20 per cent. Charles A. Hulcher and S. Walter Hixon were the solicitors.

Each person at the Laboratory will be interviewed relative to making a cash bond. (See page 6)

APPRENTICE RELATED STUDY CLASSES TO BEGIN OCT. 4

In addition to the apprentices, all other mechanical workers are invited to take advantage of the educational opportunities afforded through these classes. All employees who may be later accepted as apprentices will receive full credit for any of these classes successfully completed.

The following courses will be offered: shop mathematics, blueprint reading, physics, mechanical drawing, machine shop theory, sheetmetal layout, metallurgy, sheetmetal theory, use of handbooks, simple aerodynamics, woodworking theory, machine design, electricity, plastics, and funda-
Inflation: We Don't Want It

Bonds buy many of the material of war which are needed by our fighting men and Allies to successfully carry on the offensive against Hitler and Hirohito. But perhaps the one fact which should spur us, or even frighten us into investing more heavily in Uncle Sam's securities is the monstrous threat of inflation.

The word inflation perhaps doesn't mean too much to the average American. But the results of such a condition would indelibly stamp their meaning on our minds in the form of lost opportunity, wrecked futures, economic chaos.

An American editor, who was in Germany at the close of the last war and saw inflation first hand, said: "I'll never forget it. It was the most horrible experience of my life. Why, if I gave a new boy a nickle in American money I got more paper marks in change than I could stuff into my pockets! A loaf of bread took a man's life savings."

We don't want to see inflation in America. In order not to see it, however, we must follow the best advice available and put all we can in war bonds. During this month LMAL is conducting a special campaign in connection with the Third War Loan effort. Will you increase your pay roll allotment to at least 15 per cent and also buy an extra cash bond?

PRESENTS TESTIMONIAL ON DR. JOSEPH S. AMES

John F. Victory, NACA Secretary, at a meeting of the Committee on Sept. 16 in Washington presented from the Manufacturers Aircraft Association, Inc., a testimonial in appreciation of the contributions of the late Dr. Joseph Sweetman Ames, retired NACA Chairman.

The testimonial, signed by John A. Sanborn, of the association, expressed regret at the death (on June 24) of Dr. Ames, emphasized his service to the association, to aviation, and to all humanity throughout his lifetime, and requested that the association's deepest sympathy be conveyed "to all our friends who have been associated with Dr. Ames in connection with the work of your Committee..."

MANIFOLD PRESSURE GAGE MISPLACED OR STOLEN

A manifold pressure gage, supplied by the McDonnell Aircraft Company for use during the 16-foot Tunnel tests of the full-scale XP-67 nacelle model, has been misplaced or stolen. Previous to the tests the instrument was sent to the instrument calibration section for a check on its calibration. A thorough search has failed to locate the instrument.

It is a dual-type instrument having two pointers, one marked L and one marked R. The range of the instrument was 10 to 75 inches of mercury. The gage may be identified by the marking RANCO CO. and the serial number A.C. 42-L. Any one having information concerning its whereabouts please notify John V. Becker.

VACATION RHAPSODY

RETURN OF THE NATIVES:

Buzz Walters, Technical Service, from home in Parkersburg, W. Va.; Ruby Allen, Technical Service, from home in Raleigh; Mary Mourhess, 8-foot High Speed, from Washington; George Redmon, 8-foot High Speed, from western Virginia; Mary Lou Mackie, Editorial, from home in Gastonia, N.C.; "Goody" Goodloe, Wilfred Kelly, Bud Zeck, Tank, from a week-end at Crozet and Sleepy Hollow; Virgie Kantak, Engineering Section, from Hartsburg, W. Va.; Charlie Heath, Engineering, from Norfolk; Harold Maxwell, Engineering, from West Virginia; Melville Marks, PEM, from Virginia Beach where he spent some time with his family from New York; Ann Smith, Helen Flannangan, Dan Reisert, and Ed Palazzo, Aircraft Loads, from a week-end at Ann's home in Crewe; Dottie Teague, Selective Service, after an extended leave at her home in Greensboro, N.C.; Dickie Creech, Circulation, from Baltimore; Geraldine Hilton, AW; from home in Wytheville; Shirley Hunter, 16-foot Tunnel from home in Richmond.

THOSE STILL AWAY: Bill Gray, Pilot, in Pittsburgh to bring back his wife and son; T. R. Turner, AW; at home in Roanoke; Eleanor McKenstry, AW; at home in Kennett Square, Pa.; where she will be maid of honor in a wedding; Ernestine Herskaylo, 16-foot Tunnel, at home in Wilmington, Del.; Jerry Heser, 16-foot Tunnel, at home in western Virginia; George F. MacDougall, Spin Tunnel, and Mrs. MacDougall, in Boston; Andy Hesckaylo, ICL, in Maryland; Flossie Timberlake, Personnel, in Pennsylvania.

SUCCESS: "The success of our republic depends on the fact we do not suppress, but listen with tolerance to those who express an opposing idea."
MEN'S DORMITORY UNITS AVAILABLE TO LMAL WORKERS

Essex Courts, dormitory housing project located just off Jefferson Avenue extended at about Fifty-eighth Street near Newport News will be opened Monday (Sept. 20). Single male employees of the Laboratory are eligible for admission to the project and those interested are urged to make their application immediately.

Houses 62 Persons

Located about ten miles from the Langley Field west gate via James River Bridge-Fort Monroe highway, the project can house 62 persons in single and double rooms equipped with individual hot air registers. The rooms are furnished, adequate toilet facilities are available, and a lounge room with recreational facilities is provided.

If enough employees sign up, individual dormitories can be made exclusive to NACA employees. Special shop space may be provided for the building of model planes and for other activities. In addition, special transportation facilities will be sought if the demand is sufficient.

Here Are The Prices

Double rooms will be $3.50 per week per person, single $5; rooms are cleaned daily and bed clothes changed at least once each week; one face towel is furnished daily and one bath towel every other day; three warm blankets are furnished each occupant; a Government operated cafeteria is located on the project and serves hot food between 5 a.m. and 1:30 p.m.; bus service to Newport News is available every five minutes.

If you are interested, see Paul D. Taylor or Leigh K. Lewis or apply for admission blanks at the Apprentice Administration.

LIBERTY is a gift not lightly given.

ARE YOU DOING YOUR PART?

PROUDLY WE HAIL William C. Morgan of the Engineering Section who was the first to receive a $1,000 war bond through the pay roll savings plan at the Langley Laboratory. Said Mr. Morgan, who displays his bond in front of the NACA "Minute Man" flag of honor: "I invest in bonds for patriotic reasons; because I want to do my part." Mr. Morgan has been an employee of LMAL for 22 years.

Thanks Maintenance For Cigarettes

The Maintenance Section of the Langley Laboratory has received from Lieut. Col. Harold G. Hollman, of the New York Port of Embarkation, a letter of thanks for the 20,000 cigarettes arriving there for shipment overseas to the armed services. The name and address of the donor is securely fastened to the container of every one of the shipments handled by this office," the letter said, "in order that the Commanding Officer of the troops receiving the contribution may, if conditions warrant, acknowledge receipt."

The letter added that, "Your fine effort is considered one of the best morale lifting factors of the present war."

BOUND VOLUMES of magazines for 1942 have been received in the Library and are now available.

FEMININE VOICES NEEDED BY NACA'S MUSICAL GROUP

The NACA Music Group is looking for a balance wheel. A fine group of men (most of them single!) turn out regularly for rehearsal, but the chorus urgently needs a few more feminine voices, especially sopranos, to balance the power of the male voices.

The group read through four new numbers at the rehearsal last Wednesday night. The new selections included "Prayer of Thanksgiving", an old Dutch hymn; Franck's "O Lord, Most Holy", Gounod's "Send Out Thy Light", and Handel's "Holy Art Thou."

Private George C. Drake directed, with Mary Noble Angel at the piano.

The next meeting: Wednesday, Sept. 22, at 7:30 p.m. at the service men's USO in Hampton.
HYDRO CONTEST
(From page 1)

in the water before release. Dropping the model in the water when launching, or pushing it will disqualify the flight, counting it as a delayed flight with no time recorded.

Directions Given

The club has arranged signs on all roads leading to the field for the benefit of out-of-town contestants and others who may have trouble finding the lakes. Entrants are expected from New York, Baltimore, Washington, Norfolk, Portsmouth, Richmond, and possibly from Pennsylvania and West Virginia.

"Tiny" Hutton will act as master-of-ceremonies at the Victory Banquet. Henry J. E. Reid, Engineer-in-Charge at LMAL, will be guest speaker. Various donors of prizes will be on hand to present trophies to winners.

List Contributors

NAME SHIP AFTER EX-LMAL EMPLOYEE'S BROTHER

The destroyer escort Losser, launched on Sept. 21 at the Fore River shipyard of the Bethlehem Steel Company, was named in honor of the brother of a former LMAL employee who was killed in the battle of Guadalcanal on Nov. 13, 1942.

Commander Losser was the brother of Oscar Losser, formerly of the AWF Section of LMAL, who is on active duty.

APPRENTICE STUDY CLASSES TO BEGIN OCT. 4
(From page 1)

mentals of radio. Classes will be held only after a sufficient number have been registered to justify the conduct of the class.

Registration may be accomplished by calling the Apprentice Administration, 256. This should be done before Sept. 22.

In order to avoid taking a subject that has already been covered by courses taken elsewhere, exempting examinations will be given upon request, and credit will be afforded. Those wishing to take exempting examinations in any of the subjects listed above should contact the Apprentice Administration before Sept. 22.

Proper attendance of these classes is a necessary part of apprentice training and apprentices who fail to attend these classes without special permission to do so, will lose their apprentice status.

DON'T FORGET: Sept. 20 and 21 are the registration dates for University of Virginia extension classes to be held at the Daniel School in Newport News and the Hampton High School. Registration will be from 7 to 9:30 p.m. at the Daniel School. However, NACA employees may register during their lunch periods with either I. E. Garrick, PRD; R. E. Street, AFR, or Charles Hastings, Instrument Research.

DIES: William R. Howell, former special Civil Service representative at Fort Monroe, in charge of the local area, died recently at his home in Winder, Ga., while he was on furlough from the Army Air Corps.

LMAL EMPLOYEES SHOULD BE SAFETY CONSCIOUS

Henry J. E. Reid, Engineer-in-Charge, points out that it is considered the duty of all employees to be on the lookout for unsafe conditions throughout the Laboratory, including unsafe equipment and work procedures, and to call them to the attention of the Safety Board and, if serious enough, to immediately stop the work in question.

"The Laboratory has been very fortunate in having a good record of safety, but it is necessary for every member of the staff to cooperate fully and to be safety conscious if we are going to continue to improve our excellent record," Mr. Reid declared.

IN MEMORIAM: This space is solemnly dedicated to the FRM softball team, which went down with a "swing and a swear". Our sincerest sympathy and condolences on your loss (all of them).

PERSISTENCE: FRM is organizing a football team in an effort to make up for the showing made by the softballers. Eighteen men turned out for the initial practice. Walt Williams will captain the 170-pound team.

GEORGE WASHINGTON: "Our country's honor calls upon us for a vigorous and manly effort to enlist in the work of the Army and Navy."
FULL SCALE CAPTURES FIRST TITLE CONTEST

In a closely-contested softball game, Full Scale Tunnel nosed out Structures Wednesday, 2 to 1, to take the first of the two-out-of-three championship series. The two teams played again last night (Sept. 17) and a victory by Full Scale would give them the championship. If Structures won, the deciding match might be played Monday at the Woodrow Wilson School diamond in Newport News. Last Monday’s tilt ended in a tie.

Full Scale scored Wednesday in the fourth inning on a hit and two errors. Structures had a short-lived rally in the sixth, scoring one run. Roy Lange pitched for the winners and Si Diskin for the losers.

CONVINCING: One of the greatest arguments for the purchase of bonds is that it helps eliminate the threat of inflation. Before the first World War, a German Mark was equivalent to about 25 cents in American money. After inflation had completed its dirty work, you needed four thousand, two hundred billion marks to make one dollar—a condition which made shopping somewhat burdensome.

LYRICS NEEDED: In response to an editorial that appeared in a previous issue of the Bulletin, Don Brimley of Physical Research has written the music to a proposed NACA song. Any one wishing to try writing the words to Brimley’s music may communicate with him.

FACT: “Too many people don’t care what happens so long as it doesn’t happen to them.”

SELL 1,400 PINS

Approximately 1,400 NACA lapel pins have been sold at the Langley Laboratory, according to Walter Reiser, Head of Maintenance.

Six hundred of the emblems are still on hand and may be procured at the Administration Building Cafeteria.

Life At The Laboratory

LOVE AT FIRST SIGHT: Clarence Brown, Erection Shop, and Gwyn Barber, Hilton Village, say “I do” today.... Harold Crate, Structures, and Margaret Corbell, Hampton, were wed September 8......Helen Hackenberg, Leave, was married Sept. 11 to Tech. Sergt. “Rudy” Ries......Ralph Schrenell, Engineering Section, reportedly became engaged during a visit to Newark....Tony Schettler, IRL, and Elizabeth Clegg, Pittsburgh, were married Sept. 10 at Old Point. Bill Craig was supposed to be best man but arrived five minutes too late after a flat tire held him up. Harry Ricker, who planned to attend, wrecked his car en route.....Frances Bohannon, ICL, and Bob Liddell, AWT, became engaged the other night (on the Boulevard, incidentally) when he presented her with a flashlight diamond. It’ll be a fall wedding.....Catherine Richardson and Irving Turner, 16-foot Tunnel, have selected Oct. 3 as their wedding date. The ceremony will take place at First Methodist Church, Hampton.

MISCELLANY: Marge Patterson, creator of the little be-whiskered artist, “Reproduction Al”, is all smiles and frown. Her joy: hubby’s recent promotion in the Army; her troubles: income taxes.....Betty Ammons, ICL, and Jane Brittingham, Administrative, leave Sept. 19 to enter Madison College in Harrisonburg.....IRL loses Andy Tuck soon to the Naval Air Corps Reserve.....ICL recently sacrificed two of its artists, Carroll Christensen and Sally Mason, to the Engineering Section.....Chester Weger, Aircraft Loads, was best man and Ed Palazzo and Ralph Bielat, 8-foot High Speed, were ushers at the wedding in Rockville, Md., of John Wright and Betty Joan Crosby.....Edward R. Sharp, Manager of AERL, was a visitor Sept. 13 to LMAL.....Hal Levitt, Engineering, has been host to his sister, Ruth Levitt, Pittsburgh.....Lou Habel, 16-foot Tunnel, has as his guest his mother from Ohio.....Julia May Goodwin, 16-foot Tunnel, is advertising for a tennis teacher.....

LANDLUBBER: Perhaps it is in order to establish a fund to buy a life preserver for our Engineer-in-Charge, Henry J. E. Reid; we don’t want to lose him. The other day he is reported to have set sail in his son’s new Warwick Dinghy for the purpose of giving the youngsters some lessons in the fine art of sailing. P.S.: He swam home.

LET’S HAVE A PARTY: Guests at the stag party for Bill Thompson, given by T. Melvin Butler, Bill Craig, and Paul Taylor, are proud that the apartment manager called them down only once during the entire evening and morning. Bill Craig, retired at 1 o’clock; Taylor followed later, but Butler was still going strong when the party ended.....Lenore and Tom Hulcher entertained a group from Selective Service at a boating picnic last Monday night in the bay. Guests: Charlotte and Jim Delano, Al and Betty Schroeder, Hilda Porter, Ed Howe, Elizabeth Scott, Milly DeVine, Harry Shoaf, Bill Craig, and Dottie Teague.....The 16-foot Tunnel Computers gave Evelyn Fmbrough, who is leaving the Lab, a stork shower at the apartment of Georgia Dees and Phyllis Rietherman.....At the L Purchase party last Sunday, where nothing harder than water was served, it was noted that a few apparently had a little too much water.....The Engineering Section frolicked at a party last Sunday at Grand View.....Mauds Agnew entertained the Apprentice Administration office force recently at Grand View. The party rode in hay to the site and enjoyed hot dogs and watermelon, plus music by Tom Hulcher and his accordion.
**APPRENTICE STUDY CLASSES TO BEGIN OCT. 4**

(From page 1)

mentals of radio. Classes will be held only after a sufficient number have been registered to justify the conduct of the class.

Registration may be accomplished by calling the Apprentice Administration, 256. This should be done before Sept. 22.

In order to avoid taking a subject that has already been covered by courses taken elsewhere, exempting examinations will be given upon request, and credit will be afforded. Those wishing to take exempting examinations in any of the subjects listed above should contact the Apprentice Administration before Sept. 22.

Proper attendance of these classes is a necessary part of apprentice training and apprentices who fail to attend these classes without special permission to do so, will lose their apprentice status.

**LMAL EMPLOYEES SHOULD BE SAFETY CONSCIOUS**

Henry J. E. Reid, Engineer-in-Charge, points out that it is considered the duty of all employees to be on the lookout for unsafe conditions throughout the Laboratory, including unsafe equipment and work procedures, and to call them to the attention of the Safety Board and, if serious enough, to immediately stop the work in question.

"The Laboratory has been very fortunate in having a good record of safety, but it is necessary for every member of the staff to cooperate fully and to be safety conscious if we are going to continue to improve our excellent record," Mr. Reid declared.

**IN MEMORIAM:** This space is solemnly dedicated to the FRM softball team, which went down with a "swing and a swear". Our sincerest sympathy and condolences on your loss (all of them).  

**War Loan Drive**

(From page 1)

purchase this month and increasing their allotments. The NACA is on the way to being the first Government agency to pledge at least 15 per cent in bonds and at the same time have more than 90 per cent participation.

Starr Truscott, Chief of Hydrodynamics, is chairman of the War Loan campaign committee and is in charge of solicitation in the Full Scale Tunnel area. In charge of the Administration Building area is Percy Crain, Head of the Electrical Section.

**PERSISTENCE:** FRM is organizing a football team in an effort to make up for the showing made by the softballers. Eighteen men turned out for the initial practice. Walt Williams will captain the 170-pound team.

**GEORGE WASHINGTON:** "Our country's honor calls upon us for a vigorous and manly exertion..."

**USE YOUR HEAD AND HANDS TO PROTECT YOUR FEET**
BOND DRIVE NEARS SUCCESS

PLANNING LMAL TALENT SHOW

E. McKinley "Tiny" Hutton, of the Personnel Section, is planning to present a show, probably a minstrel, with talent to come from the Laboratory staff.

Plans are now in the embryonic stage, although Mr. Hutton hopes to have two performances, possibly at the Hampton High School auditorium, for LMAL employees and their guests.

Any one with singing, dancing or other talent and who wants to participate in the event, may communicate with Mr. Hutton at 386.

A GENTLEMAN: One who thinks more of other people's feelings than of his own rights, and more of other people's rights than his own feelings.

SIKORSKY TO DISCUSS HELICOPTERS

Igor I. Sikorsky, world famous producer and pilot of successful helicopters, will deliver an illustrated lecture on the rotor-controlled craft at a joint meeting of the Engineers Club of the Virginia Peninsula and the Society of Automotive Engineers on the night of Oct. 14 at the Apprentice Recreation Center in Newport News.

May Tour Lab

Henry J. E. Reid, Engineer-in-Charge, obtained the 54-year-old Russian-born aviation pioneer as a speaker for the meeting. Mr. Sikorsky may make a tour of LMAL during his stay on the Peninsula.

(Courtesy The Virginian-Pilot)

CASH SALES EXCEED $62,000; MANY ALLOTMENTS INCREASED

LMAL's Third War Loan campaign enters its final phase this week with solicitors preparing to make their last rounds before a tabulation is made of the results.

With approximately a week of soliciting left, the Laboratory seemed on the brink of realizing its goal of cash sales during September of $100,000 (maturity value) worth of bonds and an average pay roll allotment of 15 per cent.

At the close of the day Wednesday, the special bond office on the first floor of the Administration Building reported cash sales totalling $82,442.50, representing a maturity value of $82,850.

Bond office representatives announced that an encouraging number of allotment increases were coming through.

Starr Truscott, chairman of the Third War Loan committee, said that, "If the amount subscribed by the personnel of the Laboratory reaches or exceeds the quota, we shall have the privilege of naming some piece of equipment of comparable cost."

Campaign officials urged Laboratory employees not to let up in their enthusiasm. "We have not reached our coveted goal as yet," they emphasized, "and the hardest work is yet to come--since most of the large purchases have been made and we must rely on the $25, $50, and $100 bond purchases in order to meet our quota.

Included in the Series E sales reported by the special bond office were eight $1,000 bonds; 15 $500 bonds; 206 $200 bonds; 245 $50 bonds; and 292 $25 bonds.

KNOW HOW to spend less than you get, and put the rest in bonds.
WASHINGTON OFFICE EXCEEDS QUOTA

The Washington Office of the NACA has gone "over the top" in its Third War Loan campaign, according to an announcement by John F. Victory, Secretary.

Pointing out that the quota for each governmental agency is 10 per cent of the gross September pay roll, including cash subscription and pay roll deductions, Mr. Victory said that, "The Washington Office, with 198 employees, reached 102 per cent of its quota on Sept. 19. It was the first agency in the Federal Government to do so reported."

"The laboratory is much larger and will take more time to canvass. Proud as I am of the Washington Office," he went on, "I shall be delighted if you can beat its mark. It will take organization, determination and intelligent presentation to do so. I know you can do it, and wish you every success."

HYDRO CONTEST WINNERS

The following is a list of prize winners in the Hydro contests:

Class C Gas
1. Frank Parmenter--Avion Club trophy and war bond.
2. Herb Andrews--Tom Hulcher award; Quaker kit and X-Acto knife.
3. George Sadler--M.I.A. medal; $5 and Buccaneer kit.
5. Dick Everett--Cleveland kit--cement.
6. Fred Waller--glider kit--half dozen props.

Class B Gas
2. Charles Molisee--Structures Lab trophy and $10 cash.
4. Dick Sladek--M.I.A. medal; Zombie kit; X-Acto knife; half dozen props.

Class A Gas
2. Ralph Moscater--M. F. Serio trophy and $10 cash.
4. Tom Abel--M.I.A. medal; X-Acto knife; soaring glider and air wheels.

Rubber
1. Dick Everett--NACA Maintenance trophy and war bond.
4. Joe Dodson--M.I.A. medal; skein of rubber; gas model kit.
5. Bob Annas--glider kit and $1.50.

CLEVELAND CLIPPINGS

WINNERS: Chester Lanzo, George Reich and Jim Gibbs, all of AERL, won prizes at the Clarksburg, West Va. model meet.

NEAR GOAL: The Clevelanders made $25,000 worth of cash bond sales the first week of their Third War Loan campaign.

COOPERATING: In response to a nation-wide conservation program, AERL is curtailing the use of electricity where possible.

PICNIC: Engine Research enjoyed an outing recently, prizes going to Ed Kegels, Corinne Hollis, Robert Krause, Joe Sidotti, and Mrs. Fred Schleicher.

GIGS: Cleveland women are joining the GIGS (Girls In Government Service), an affiliate of the Cleveland Federal Business Association.

VISITORS: Among AERL's recent callers were E. W. Hives and J. E. Ellor of Rolls-Royce, Ltd., Derby, England.

HEAVEN: A large representation from AERL attended the Lakewood Little Theater's "Heaven Can Wait", presented Thursday.

SPORTS: Clevelanders, their softball season nearly ended, are going in for horseshoe pitching, bowling, and fishing.

FULL SCALE, STRUCTURES TO PLAY SUNDAY, SEPT. 26

Full Scale and Structures Research, both tied at one game each, will play for the Laboratory softball championship Sunday, Sept. 26, at 12:30 p.m. at the Woodrow Wilson School diamond in Newport News.

Full Scale captured the first game, 2 to 1. Structures topped the Tunnel lads, 6 to 5, in a game played Friday of last week. Structures took the lead at the beginning and was never headed by Full Scale. Si Diskin was the winning pitcher; Roy Lange twirled for the losers.
Highlights At The Hydro Meet

The sky was a cool blue, with little wisps of white clouds, and the wind breathed against the waters of the small lakes and pushed small wavelets shoreward as the enthusiastic young model builders trekked across the grassy paths that led from the highway to the site of the Brain Busters hydro model championships.

Contestants Arrive Early

Early arrivals were already putting together their models, tuning gasoline motors that sounded like the distant droning of war planes. Over in one corner a loudspeaker, rigged on an automobile and operated by D. E. Hicks of Hampton, was intermittently giving forth with jive, then listing instructions to the contestants.

It was a good show—filled with thrills and spills, exciting takeoffs, heartbreaking crashes that occurred when something went awry or the wind puffed a little too brisk at the wrong moment. The spectators, many of whom arrived early Sunday morning and remained until the last flight that afternoon, went away satisfied. The boys enjoyed it too.

Parmenter Sets Record

Most spectacular performance was given by Frank Parmenter's "Cyke" powered "Honeyboy", setting a new national record in Class C hydro gas models of ten minutes, 47 seconds. A group of "model chasers" last saw the craft over the Mariners' Museum, north of Newport News. It made a landing on the James River, was picked up Sunday afternoon by a fishing party, and returned to Parmenter Monday.

National records in Class B gas and rubber, respectively, were set by Carl Birkel and Dick Everett.

A number of the small pontoon-equipped models nosed over in the water during takeoffs, but the contestants were saved the discomfort of wading out in the cool water through the courtesy of Jesse Shepard, who did a good job of retrieving from his kayak.

Assemble At Victory Banquet

The championships over, the contestants and their friends gathered Sunday night at Cutler's Restaurant where the victors received their spoils. "Tiny" Hutton kept the crowd in a jovial mood as master-of-ceremonies. Henry J.E. Reid, Engineer-in-Charge, addressed the group, complimenting them on the show, praising model building as a sport, and pointing out its benefits to the Laboratory. He also recalled some of his experiences as a model builder.

Last stop of the evening was the Industrial USO, where the group want to talk over the various happenings at the meet, and to pose while Jim Bradly made pictures of the winners.

Hold Gas Model Contest

There will be a gas model contest at the La Salle Avenue field on Sunday, Oct. 3. It will be strictly a landplane affair, with all classes combined.

As many flights as possible will be allowed each contestant. The total of the highest three flights will constitute the contestant's time.

Entry fee is 75 cents if paid before Oct. 2, $1 if paid at the field on Oct. 3. Any loss on the contest will be made up by the Brain Busters Model Club and any profits will go into a fund for future contests.

The prize list: First—trophy; second—$5 in merchandise; third—$5 in merchandise; fourth through eighth—one year's subscription to M. A. N.

Vacation Rhapsody

RETURN OF THE NATIVES:
Jane Brown and Gertrude Song, AW, from Akron, Ohio; Virginia Bangsberg and Jack Cook, ICL, from the Middle West and June Wyatt's wedding; Helen Carling, ICL, from a week-end in Williamsburg with her lieutenant; Beatrice Harlow, Blueprint, from a visit with her son in Iowa; Janice White, Tank, from home in Oak Hill, West Va.; Georgia Dees, le-foo Tunnel, from a week-end at her home in Greensboro, N. C.; Wilhelmina Kroll and Harold Brilmeyer, Structures, from a week-end in Washington; Mrs. Doris Payne, LW Purchase, from a week-end in Baltimore; Clo Wood and Sig Sjoberg, FRM, from a week-end in Philly; Gladys Fulton, ALD, from a week-end to the Capital City; Robert Miller, ALD, from New York; Louise Cox, East Area Computing, from Smithfield, West Va.; Edith Howard and Rebecca Winchester, East Area Computing, from a visit to their husbands in the armed services; Evelyn Bowers, East Area Computing, from home in Sanford, N. C.; George Niles, 8-foot High Speed Tunnel, from home in Iowa; Chris Gill, Personnel, from Syracuse, N. Y.; where she saw the bright lights and spent her pay roll on some "snazzy" clothes.

Touch Football

Preliminary touch football rules were formulated by a representative group of team captains at a recent meeting. Copies of the rules will be circulated to other team captains for comment and approval.

Any section interested in entering a team in the league should communicate with either of the following: Bob Nuber, 249; Jimmy Linsell, 231; Fred Daum, 373; Schumacher, 251; or Walter Williams, 264.

Deadline for entries will be Saturday, Oct. 2. League play will get under way on Sunday, Oct. 17.
Life At The Laboratory

LET'S HAVE A PARTY: "Wheezy" and Joe Lada entertained the Apprentice Administration at a party recently. Among those attending were Bill Craig, Paul Taylor, and "Mama" Hulcher, the group's adopted children. Tom and Lenore Hulcher entertained the AA office with a boat ride Wednesday night. 8-foot Tunnel plans a picnic at the Gloucester Country Club tomorrow (Sept. 26).

MISCELLANY: Louise Phillips, Tank, is convalescing from tonsilectomy. Mary Harris, Tank, is back after a month's illness. 16-foot Tunnel computers gave Catherine Richardson a linen shower last Sunday at the home of Julia Goodwin. Bob Bullock, AEEL, formerly of LMAL Supercharger, visited the Lab Sept. 20. Fran (TCL) Bohannon's daily recital on "Scrooge" and "Tiny Tim" is spreading Christmas cheer. TCL is enjoying the company of John Jefferson and the vocal solos of Lieutenant Simpson, both visitors from Wright Field. B. G. Bennett, TCL, formerly owned a candy kitchen. Mary Thorne Tyson, TCL, is giving Kate Smith competition in the Third War Loan campaign. Betty Schroeder has a Persian cat and husband Al of Cowling and Cooling is in the market for an English bull dog. Mary Soper is the new beauty working for Selective Service. Emily Bagnall, Pay Roll, suffered jolts and bruises in Kay Kelsey's auto mishap Sept. 20. The car turned over, but no one was seriously hurt. Other occupants: Lib Garner and Georgia Cross. Marilyn Lawlor, Pay Roll, is back from South Carolina, where she was called upon the illness of her grandmother. Evelyn Stein and Gimmy Powell, Civil Service, spent all day recently on the CRT busses, seeing the Peninsula, the Mariners' Museum in particular. The Personnel girls miss Norwood Evans since he moved with part of the Personnel Office and F. L. M. Strom's office to a building near the Air Base main entrance. "Tiny" Hutton and Frances Sultan and her group made a hit entertaining at the Industrial USO's official opening. New gals welcomed by Selective Service include Celia Holman, Jackie Ammons, Mary Jean Quinn and Beatrice Riebe.

LOVE AT FIRST SIGHT: Arthur Kantrowitz, AFR, and Rosalind Joseph, New York, were married in the metropolis Sept. 12. "Arky" says he had to get married but don't jump to conclusions. He needed a marriage certificate to get priority on an apartment in Hampton. Mary Jean and Bill Thompson ran off the road on the way back from their Georgia honeymoon. Probably "love-dust" in Jeanie's eyes. Phyllis Whitten, Personnel, and Ensign Frank H. Fraime will wed at 6:30 this evening at the Fort Monroe Chapel. Hubby-to-be is stationed at Little Creek. Martha Willis, Apprentice Administration, claims it's the "real thing" this time. Her cohorts are planning to declare a legal holiday when she and her Coast Artillery lieutenant are "hitched"... Dick Giersch, Laboratory baritone, married Rose Martin, Hampton, in Baltimore on Sept. 7... Hilda Singleton, West Area Machine Shop, and Dave McCraw, AA, have announced their engagement.

SARAH Whitley has been elected publicity manager of the AWT Recreation Committee, which includes John Riebe as chairman; Lib Garner, treasurer, and Ann Timberlake, Barney Morewitz, and John Lowry.

PROPOSE NURSERY NEAR LANGLEY

LMAL is making an effort to have the Elizabeth City County school board establish a day nursery in the vicinity of Langley Field to accommodate young children of mothers employed at the Laboratory. Mrs. Lenore Hulcher, women's counselor, said she has conferred concerning the matter with C. Alton Lindsay, school superintendent, who indicated that the nursery might be established if as many as 15 or 20 children utilize the facilities.

The problem of a location might be solved, Mrs. Hulcher said, through the use during week-days of a residence at Cavalier Court which has been leased for Sundays by a church on the Peninsula.

The Laboratory is seeking to have the nursery established in an effort to keep in its employ the mothers of young children who may have to resign now, or at some future time, because they have no satisfactory place in which to leave the youngsters during working hours.

Any mother of a child or children under six years of age and who would be willing to send them to the day nursery, may communicate with Mrs. Hulcher, telephone 366.

DON'T FORGET: GREEN COW SPONSORS DANCE OCT. 1

Don't forget to make it a date for the Green Cow dance to be held Friday night, Oct. 1, from 9 to 12 midnight at the Hampton Armory.

Music will be offered by Red Overton and his orchestra, featuring songs by Dick Giersch.

Season membership tickets for the year 1942-43 purchased, are good for admittance.

No tickets will be sold at the door. Those planning to attend, and who do not have tickets, may purchase them from any representative of the Green Cow committee.
A party of 52 persons, including 47 members of the War Production Board, visited LMAL last week, inspecting facilities at the Laboratory.

The entire group first viewed the Full Scale Tunnel, where they heard Abe Silverstein explain certain features of the facility and the type of work conducted there.

From Full Scale, they went in four different groups to:

The Tank, where Jack Parkinson showed them around; Spin Tunnel, with Oscar Seidman in the role of demonstrator; Free Flight Tunnel, with features explained by Joseph Shortal; the Hangar, where they learned about flight research from Herbert Hoover; and the 8-foot Tunnel, the discussion there being conducted by John Stack.

The group returned to Washington after the brief sojourn, which included also an inspection tour of the Langley Field Air Base.
SIKORSKY TO SPEAK
(From page 1)
A number of employees of the Langley Laboratory are members and officers of the Engineers Club. The lecture will be illustrated by one, and possibly two, silent, colored films of recent helicopter flights.

Aviation Pioneer
Mr. Sikorsky began his work in aviation in 1909 by designing and constructing a helicopter with a 25-horsepower motor. From 1910 to 1912 he produced a second helicopter and six different types of planes, during this period teaching himself to fly.

In early 1913 the first large four-engined Sikorsky plane was completed, the first aircraft of its size and type in the world and the forerunner of other successful large bombers, one of them being piloted by the designer on a 1,000-mile flight in 1914 between Petrograd and Kiev. After the 1917 revolution, Mr. Sikorsky left Russia for France, later coming to the United States, and in 1923 organizing the first aircraft company bearing his name. He became a citizen of this country in 1926. In the fall of 1929, the company was acquired by the United Aircraft Corporation.

Produces Helicopter
During 1940, Mr. Sikorsky produced the VS-300 helicopter, a machine of entirely novel design, according to Mr. Sikorsky, which could rise vertically with no run, hover over one spot for indefinite periods of time, fly forward, backward and sideways. Mr. Sikorsky considers this aircraft the first truly successful direct lift machine produced in the U.S., as well as the first single main rotor helicopter successfully produced in the world.

CONDOLENCES: To Mary Jones, L Purchase, on the death of her mother, Saturday, Sept. 18, in Hampton.

List University Extension Courses
The following University of Virginia extension courses have been organized and will hold first class meetings on Tuesday, Sept. 28, at 7 p.m. at the John W. Daniel School in downtown Newport News: Naval Architecture, Physics, Mechanics, Mechanical Engineering, Calculus, Marine Engineering, Electronics, Functions of a Complex Variable.

The following meet Tuesday, Sept. 28, at Hampton High School:
Mathematical Analysis, Strength of Materials, Trigonometry.

The following meet Thursday, Sept. 30, at Hampton High School:
Ultra High Frequency Techniques.

A free war training course on Elementary Mechanics and Strength of Materials is open to NACA employees and will hold its first meeting Wednesday, Sept. 29, at Shipyard Building 522 across from the Main Office in Newport News.

The following courses lack a few more registrants before being formed:

For further information, communicate with E. Davis, E. Harrick, PhD; C. E. Hastings, Instrument Research, or A. L. Doenhoff, AFR.

BRING 'EM IN: During the Laboratory's Third War Loan campaign you may bring in filled or unfilled war savings stamp books, or loose stamps, for conversion to bonds.

THELMA SAVAGE, L Purchase, will pay cash for a good radio phonograph.

RULES FOR APPEALING EFFICIENCY RATINGS GIVEN
Laboratory employees wishing to appeal their efficiency ratings to the NACA Efficiency Rating Board of Review may obtain forms at the Personnel Office. The use of the form is not mandatory, but all information requested thereon should be given. Any information desired in connection with the rating of an appeal may be received at the Personnel Office.

The NACA review board for the term ending next June 30 includes Roger C. Power, chairman; Mrs. Helen C. Cox, alternate chairman; E. H. Chamberlin, department member; Ralph E. Ulmer, alternate department member; Ralph E. Cushman, employee member, and Miss Florence E. Anschatz, alternate employee member.

T. Melvin Butler, Personnel Officer, has been designated to act as assistant to the department representative for LMAL for the purpose of obtaining and presenting to the personnel office the board information deemed pertinent in reply to an employee appeal.

CIVIL SERVICE BEGINS NEW RATING PLAN
All new employees of LMAL and those who have received or will receive a change in status since Sept. 1 will be given a rating which no longer includes the conventional ranking adjectives, such as junior, senior, and principal. Instead, the appropriate service symbol and grade number will be used to indicate rank or level.

For example, a Junior Stenographer, CAP 2, and a Senior Stenographer, CAP 3, will be redesignated as Stenographer CAP 2 and Stenographer CAP 3. This plan applies to all job classifications.

The change was ordered by the U.S. Civil Service Commission in a departmental circular issued recently and became effective Sept. 1.

BONDS BUY BOMBERS
BEGIN APPRENTICE CLASSES OCT. 4

Apprentice related study classes will begin Monday (Oct. 4). Classes will be conducted at Hampton High School Mondays and Wednesdays for the next ten weeks. Although Apprentices and a large group of other mechanical workers and laboratory aides have already registered, it is not yet too late for additional registration.

Classes will definitely be conducted in simple aerodynamics, blueprint reading, radiography, mechanical drawing, sheetmetal layout, use of handbooks, machine design, shop mathematics, and woodworking theory. Other classes in metallurgy, typing, shorthand, and business English will be offered if enough students register.

All mechanical workers wishing to take advantage of this opportunity to further fit themselves for more responsible work are urged to register.

(See page 5)

COMMENDS LAB FOR CAMPAIGN SUCCESS

Henry J. E. Reid, Engineer-in-Charge, issued the following statement in connection with the successful Third War Loan campaign at LMAL:

"I want to express my personal appreciation to each and every member of the staff for the splendid showing made in the Bond Campaign. It shows that the members of the LMAL staff are going full-out, not only in their job of research, but in other phases of the war effort. The Committee as a whole has always had an enviable record among Government organizations, and the results of this drive show that we at LMAL are doing our share to maintain this record. I want particularly to express appreciation for the splendid work and unflagging efforts of the Bond Committee and all the solicitors."

(See page 5)
Highlights Of A Remarkable Achievement

On Saturday, Sept. 11, two days after the nation-wide Third War Loan campaign got under way, a meeting of a small group of LMAL employees was held. Their eyes bulged in unbelievable amazement when LMAL's goal was announced: $75,000 in cash bond sales and an average pay roll allotment of 15 per cent. "This is an important project", they were told. "Sounds like an impossible achievement", some one interposed.

The war loan committee was appointed that afternoon: Starr Truscott, chairman, and also head of the solicitation in the Full Scale Tunnel area; Percy Crain, in charge of the Administrative Area, and Joseph Kotanchik, guiding light for the West Area. The committee met the following Monday, mapped plans. Solicitors were chosen, given instructions and all the necessary materials and sent out on their mission.

In anticipation of record sales, a special bond office was set up on the first floor of the Administrative Building in charge of Kitty Parker, who was assisted by Evelyn Krum and Evelyn Olsen. Paul Taylor, a representative of the LMAL Federal Credit Union, furnished the office with plenty of bonds and acted as official money-changer. Kitty Parker used an empty pound candy box as her currency depository. She couldn't believe, when it was all over, that more than $100,000 in cash and checks had at some time during the drive been placed in the box. The money came fast—in everything from piggy banks to pickle jars. One man brought 800 pennies. Three hundred quarters and 75 silver dollars came from the West Area on different days. Filled and unfilled stamp books were turned in for bonds.

During the latter part of the drive, just before the goal was topped, a mimeographed sheet was put out showing the tabulation from day to day. But the cash was coming in so fast that by the time the ink on the sheet was dry, the campaign total had shot up another couple thousand. Mr. Kotanchik kept up interest in the West Area by publishing periodically a mimeographed sheet, showing how the drive was coming and injecting a pep talk here and there.

Cash Comes In Fast

On Saturday, Sept. 25, it became apparent that the cash goal had to be increased from $75,000 to $78,500 because of the fact that the Laboratory pay roll had increased. But this was only a drop in the bucket, apparently, for on Monday afternoon, Sept. 27, the goal was topped. As of 2 P.M. on that day, cash sales totalled $80,649.75, which was $2,148.75 above the quota. Contributions continued to pour in. One young woman sent a check for $2,831.25 on the afternoon of Sept. 28 for three $1,000 bonds, one $500, two $100, one $50, and two $25. A few minutes later orders for two $1,000 bonds came in from another sector. The workers all agreed that this was really big business.
STRUCTURES RESEARCH: 1943 SOFTBALL CHAMPS OF NACA

BY VIRTUE OF THEIR WINNING the two-out-of-three game championship series with Full Scale Tunnel, the Structures Research softball team cor\-ed the championship in the 1943 NACA League. Members of the team and their positions include (from left): Front row--Manny Stein, right field; Pat Chiarito, catcher; Si Diskin, center field; John Neff, third base. Second row--Bill Sperry, center field; John Kousz, center field; Walter Wood, second base; Leonard Bartone, short stop; Norman Rafel, second base. Third row--Carl Rossman, left field; George Zender, short field; Evan Schuette, right field; John Houbolt, right field; Rolla Boughan, right field; Harold Crate, left field; Joe Kotanchik, first base.

PLUGINS NAME LMAL ALL-STAR SOFTBALL TEAM

<table>
<thead>
<tr>
<th>First Team</th>
<th>Positions</th>
<th>Second Team</th>
</tr>
</thead>
<tbody>
<tr>
<td>Si Diskin, Structures</td>
<td>Pitchers</td>
<td>Dale Burrows, PRT</td>
</tr>
<tr>
<td>Roy Lange, FST</td>
<td></td>
<td>Abe Cohen, PRT</td>
</tr>
<tr>
<td>Ira Ramsey, W. Sheetmetal</td>
<td>Catchers</td>
<td>Stan Spooner, 19' P.T.</td>
</tr>
<tr>
<td>Gene Drakey, 8' H.S.</td>
<td>1st Base</td>
<td>Axel Wattson, 8' H.S.</td>
</tr>
<tr>
<td>Jerry Brewer, FST</td>
<td>2nd Base</td>
<td>Bob Little, W. Sheetmetal</td>
</tr>
<tr>
<td>Claude Hart, FST</td>
<td>3rd Base</td>
<td>Nick Mastromarco, PRT</td>
</tr>
<tr>
<td>Len Bartone, Structures</td>
<td>Short Stop</td>
<td>Carl Rossman, Structures</td>
</tr>
<tr>
<td>Harold Sweberg, FST</td>
<td>Left Field</td>
<td>John Houbolt, Structures</td>
</tr>
<tr>
<td>Bill Nelson, FST</td>
<td>Right Field</td>
<td>Pat Cancro, 19-foot Tunnel</td>
</tr>
<tr>
<td>Paul Marchal, W. Sheetmetal</td>
<td>Center Field</td>
<td>Owen Deters, 19-foot Tunnel</td>
</tr>
<tr>
<td>Anshal Neihouse, Stability Short Field</td>
<td>Arvo Louma, 8' H.S.</td>
<td></td>
</tr>
</tbody>
</table>

HONORABLE MENTION: Pitchers--Pat Cancro, 19-foot Tunnel; Cliff Link, W. Sheetmetal; Catchers--Benny Cocks, FST; Everett Daniels, 8-foot Tunnel; Mervin Schuldenfrei, Stability; Owen Deters, 19-foot Tunnel; A. E. Alexander, FRM; first basemen--K. Czarnecki, FST; John Campbell, Stability; Carl Cecil, W. Sheetmetal; Joe Kotanchik, Structures; second basemen--Fred Panz, W. Sheetmetal; Walter Wood, Structures; third basemen--John Neff, Structures; Alfred Marino, PRT; short stops--Gene Guryansky, FST; Cletus Vincke, 8-foot Tunnel; Bernard Maggin, Stability; Jerry Teplitz, 19-foot Tunnel; Clarence Brown, Erection Shop; Leonard Damratowski, Tank; fielders--Jim Delano, 8-foot Tunnel; Harry Barritt, W. Sheetmetal; Walter Lindsey, 8-foot Tunnel; Byron Hudgins, W. Sheetmetal; Evan Schuette, Structures; Jack Reeder, FRM; Clarence Prospere, Stability; Dick Dingeldein, FST; Ervis Morris, W. Sheetmetal; George Zender, Structures.
FAIR WEATHER FAILS TO HELP GOLFERS

Fair weather prevailed for the Laboratory golfers who entered the recent tournament at the Langley course. Despite the good weather, however, some of the golfers complained that their performances were the poorest they ever gave.

Judging from talk heard in the clubhouse after the matches, the trouble seemed to be in the tournament rulings in sand traps and in roughs, and because of the players' lack of sleep the night before.

Good golfers and those less proficient were matched in pairs and their total scores for the 18 competed with total scores of other pairs. Abe Cohen, PRT, and Harold Brilmyer, Structures, won the best pair prize; Tom Carpini and Al Budde, both of IRL, were second best pair, and Bart Geer, Maintenance, and Andy Haskayo, IRL, won a fifth place prize.

The best single score shot was an 84 turned in by Norm Richardson, IRL, with Jim Bertoci, 16-foot Tunnel, close by with an 85. Bertoci smashed out par on 8 holes, while Richardson parred only 5 but won through his consistency.

A surprise award was given for the most consistent golfer. This went to Paul Harper, Aircraft Loads, who scored a two over par 11 holes out of 18.

SPEED VICTORY

BOWLING LEAGUES TO BEGIN OCT. 4

The Laboratory duckpin bowling season gets under way Monday (Oct. 4) at 6 p.m. at the Wythe Center alleys.

There are five leagues this year, four in the mixed division and one in the men's division.

The season, which runs for 26 weeks, has been divided into three sections for the mixed leagues and two sections for the men's league. There are eight mixed teams in each of the leagues and 14 men's teams.

Due to the larger number of teams in the men's league than was expected, six of the teams will bowl at 6 p.m. and eight at 7 p.m. The schedule will revolve, so that no team will have the 6 p.m. schedule for two weeks in a row.

Complete schedules and rules and regulations are being prepared for the team captains, and will appear on the bulletin boards, probably today.

NACIn Langley's Football League

The Langley Field Inter-Organization touch football season opens Oct. 4. LMAL has been invited to enter a team in the league, and all Laboratory employees interested in playing are urged to communicate immediately with Len Bartone, Structures Research.

LMAL's first game is scheduled for Oct. 5 and additional players are needed. No regulation equipment is necessary; however, no shoes with cleats or spikes will be allowed.

Nine teams are in the league, including Sub-Depot (civilians), Medical Detachment, Structures, 18th Anti-Sub, Third Sea Search, 901st Quartermasters, 12th Tow Target, Second Base Squadron, and Fourth Bomb and Gunnery Range.

The LMAL schedule this month follows: Oct. 5 -- 18th Anti-Sub; 6 -- Second Base Headquarters; 7 -- 15th Tow Target; 12 -- Third Sea Search; 14 -- Fourth Bomb and Gunnery Range; 19 -- 901st Quartermasters; 25 -- Medical Detachment; and 27 -- Sub-Depot.

BASKETBALL: Are you interested in playing basketball this year? If so, get in touch with Claude Hart, Full Scale Tunnel.

DISPLAY FLAGS: The Instrument Service and East Machine Shops have 3 by 5 foot American flags displayed. They were presented by Lodge No. 137, I.A. of Machinists.

STRUCTURES LAB SOFTBALL TITLISTS

Structures Lab, behind four-hit pitching by SL Diskin, swamped the Full Scale team last Sunday, 8 to 0, and won the LMAL softball championship for the second successive year.

Two gift runs in the first inning were enough to clinch victory for Structures. Lange issued four passes in the initial inning to send one runner across, and Hart's muff of Neff's grounder enabled the other run to be scored. Five hits, coupled with walks and errors, provided the other Structures tallies, including 2 in the third and 4 in the fifth.

In not allowing a man to reach third, Diskin kept himself out of trouble all day. Twice the Full Scaleers had men on first and second with only one out, but were unable to send them around.

RESUME OF SEASON: Full Scale finished in first place in league standings. Full Scale, a-half foot High Speed, West Sheetmetal, and Structures gained berths in the play-offs. In the semifinals, Structures eliminated a-half foot 6 to 0, and Full Scale erased Sheetmetal, 6 to 5. In the final, Full Scale won the first game against Structures, 2 to 1. Structures came back with a 6 to 5 victory, and capped the deciding game last Sunday, 8 to 0.

Twirling by Diskin and Lange featured the series.

Box scores of the final game:

<table>
<thead>
<tr>
<th>Structures</th>
<th>Ab</th>
<th>R</th>
<th>H</th>
<th>PO</th>
<th>A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rafe, RF</td>
<td>3</td>
<td>1</td>
<td>1</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Kotanichk, SS</td>
<td>4</td>
<td>0</td>
<td>1</td>
<td>3</td>
<td>0</td>
</tr>
<tr>
<td>Bartone, SS</td>
<td>2</td>
<td>0</td>
<td>0</td>
<td>5</td>
<td>2</td>
</tr>
<tr>
<td>Zender, SF</td>
<td>2</td>
<td>1</td>
<td>0</td>
<td>2</td>
<td>0</td>
</tr>
<tr>
<td>Rossman, LF</td>
<td>2</td>
<td>1</td>
<td>0</td>
<td>4</td>
<td>0</td>
</tr>
<tr>
<td>Diskin, P</td>
<td>1</td>
<td>2</td>
<td>1</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Neff, 3B</td>
<td>3</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>1</td>
</tr>
<tr>
<td>Chiarlic, C</td>
<td>3</td>
<td>1</td>
<td>1</td>
<td>5</td>
<td>0</td>
</tr>
<tr>
<td>Woods, 2B</td>
<td>3</td>
<td>0</td>
<td>1</td>
<td>1</td>
<td>0</td>
</tr>
<tr>
<td>Kousz, CF</td>
<td>3</td>
<td>0</td>
<td>0</td>
<td>0</td>
<td>0</td>
</tr>
<tr>
<td>Totals</td>
<td>26</td>
<td>8</td>
<td>5</td>
<td>21</td>
<td>3</td>
</tr>
</tbody>
</table>

Full Scale

| Guryansky, SS | 2 | 0 | 1 | 0  | 0 |
| Dingledain, SF | 3 | 0 | 1 | 0  | 0 |
| Hart, 3B      | 3 | 0 | 1 | 0  | 1 |
| Lange, P      | 3 | 0 | 0 | 0  | 0 |
| Sweberg, LF   | 3 | 0 | 0 | 3  | 0 |
| Nelson, RF    | 2 | 0 | 0 | 1  | 0 |
| Hagginbotham, CF | 3 | 0 | 1 | 0  | 0 |
| Brewer, 2B    | 3 | 0 | 0 | 3  | 2 |
| Mutterperl, 1B | 2 | 0 | 0 | 7  | 0 |
| Cocks, C      | 2 | 0 | 0 | 4  | 0 |
| Totals       | 26| 0| 4 | 18 | 4 |
MISCELLANY: Gene Lockhart of Detroit and William O'Rourke of Oregon, both former employees of the Erection Shop and now Air Corps cadets, met in the "show line" recently at the Miami Training Center. Elizabeth Balint of AERL looked over the Lab Sept. 27. A suggestion comes from ICL that we have music in the East Area Cafeteria during lunch period. Dave Haynes returns this week to the Engineering Section from Planning and Procurement. Cletus Vincke and Tom Northern are voted a special award by their fellow-workers for making the most and strangest noises on the field in their instrument calibration experiments. The blueprinting staff is enjoying skating and bowling parties. Bill Suttle, formerly of the 19-foot Tunnel, a recent graduate of OCS, visited the Lab Sept. 27. Lieut. Walter Stroud, stationed in Delaware, has made two visits in three weeks to see Hazel Philyaw, 19-foot Tunnel. What goes, Hazel? Marie Allen, formerly of 8-foot Tunnel, is now in Wartime. Walter O'Rourke, recent graduate of Shor. Staff is enjoying skating and bowling parties. Bill Suttle, formerly of the 19-foot Tunnel, a recent graduate of OCS, visited the Lab Sept. 27. Lieut. Walter Stroud, stationed in Delaware, has made two visits in three weeks to see Hazel Philyaw, 19-foot Tunnel. What goes, Hazel? Marie Allen, formerly of 8-foot Tunnel, is now in charge of the 15-foot Tunnel's computing section. Audrey "Ace" Campbell, Editorial, won a bet by staying at home by her lonesome every night for a week. Doris Bloxom caught herself flagging the train at 4 a.m. last Monday in a desperate effort to get back to "pay-rolling" on time.

LET'S HAVE A PARTY: Dynamic Model Shop employees gave John Dallas Robertson a ruby ring and a party as farewell gestures upon his departure for Washington. The DMS girls recently entertained at showers for Virginia Witt and Emmette Kittrell. Virginia will wed Durwood Dereng, also of DMS, and Emmette married Sergt. Charles Flanders, Langley Field, on Sept. 18. The 19-foot Tunnel is having a picnic Oct. 3 at Oak Point Lodge. A treasure hunt is planned and rumor has it that the prize will be a certain pre-war bottled product, now rationed. Tech Service frolicked at a party at Oak Point last week-end. Every one said they had a good time but details were not mentioned. Golf, tennis, dancing occupied the time of the 8-foot High Speed Tunnel staff at their picnic Sunday at the Gloucester Country Club. E. Clifford Draley and his "high speeders" had as their special guests, H. Adam Fedziuk, Office of the Engineer-in-Charge, J. Vernon Becker, 16-foot Tunnel, and J. (Nomidlename) Stack, Division Chief. After Structures copped the softball title last Sunday, the Lab staff went on a picnic to Grand View. Sibyl Bateman excelled as pitcher in a girl's softball game at the picnic, while the men worked up an aperitif playing touch football. Eugene Lundquist is still wondering who stole his three nicely-done hamburgers. Honors go to the efficient refreshment committee: Mrs. Levy Tindal, George Heimerl, Mrs. Edna McQueen and Dave Ochiltree. S1 Diskin planned the recreation and Bob Weinerberger, calculus whiz, solved the transportation problem. Tears were shed last Saturday night by Emily Rivers, Lilly Belle Evans, and Blanche Sponsler as they chopped onions, mixed hamburger, and made potato salad. The Wreck-creation Committee of AWT is sponsoring a "stag and no drag" skating party Monday night at Stuart Gardens.

LOVE AT FIRST SIGHT: Robert D. Schade, Free Flight Tunnel, and Elaine Zedskar, were married recently in Rockford, Ill. Jessie Hobbs and Irving Johnson, formerly of LMAL Surcharger and now of AERL, were married recently in Cora, N.C. Jessie's sister, Connie, and Larry Fogarty both of the 19-foot Tunnel, were in the wedding.

HEIR MAIL: Joe Pavlovsky, Engineering Section, is the proud papa of a son, John Dennis, born Sept. 24.

STORY ABOUT NACA IN PERIODICAL

In the August issue of the Journal of Applied Physics, there appears an article on the NACA, including a discussion of the difficulty in getting the Committee established, an early history of the agency, and some of its accomplishments.

"The NACA has the distinction of being not only a mainstay of aviation research, but also the one great Government agency controlled by nonpaid civilians," the article mentioned.

Since 1917 a large program of research has been carried on at Langley Field, where the NACA was given land by the War Department for the development of LMAL, the article said, pointing out that one of the first of many novel developments in research equipment was the Variable Density Tunnel.

BOND CAMPAIGN
(From page 1)
F and G bonds, purchases of E bonds made through Oct. 15 will be counted in with the September cash purchases. An effort was made by the Bulletin to obtain a complete list of solicitors in the various areas, but they had not been received up to press time.

STUDY CLASSES
(From page 1)
meet at Hampton High at 7 p.m. Monday for class room assignments.

A special class in simple aerodynamics will be conducted Tuesdays, from 7 to 9 p.m. This class is designed for employees working in the library editorial office, and in similar work and will be taught by Cal Muse of the 19-foot Pressure Tunnel.

OFFICE HOURS: Mrs. Lenore D. Huiter, women's counselor, announced that her office hours will be from 8:15 to 11 a.m. and 3:30 to 4:45 p.m. in order that she may have an opportunity to visit various sections of the Laboratory.
### NACA WAR BOND RECORD IN AUGUST

<table>
<thead>
<tr>
<th></th>
<th>Washington</th>
<th>Langley</th>
<th>Ames</th>
<th>Cleveland</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>On Pay Roll</td>
<td>129</td>
<td>2154</td>
<td>463</td>
<td>1309</td>
<td>4075</td>
</tr>
<tr>
<td>Number Participating</td>
<td>126</td>
<td>2076</td>
<td>456</td>
<td>1208</td>
<td>3866</td>
</tr>
<tr>
<td>Percent Participating</td>
<td>97.7</td>
<td>96.33</td>
<td>94.5</td>
<td>92.29</td>
<td>94.87</td>
</tr>
<tr>
<td>Monthly Pay Roll</td>
<td>$27,605.03</td>
<td>$417,694.55</td>
<td>$103,351.86</td>
<td>$288,775.61</td>
<td>$837,427.05</td>
</tr>
<tr>
<td>Amount Subscribed</td>
<td>$3,007.86</td>
<td>$49,152.84</td>
<td>$10,516.87</td>
<td>$29,216.66</td>
<td>$91,894.23</td>
</tr>
<tr>
<td>Percent Subscribed</td>
<td>10.90</td>
<td>11.77</td>
<td>10.18</td>
<td>10.12</td>
<td>10.95</td>
</tr>
<tr>
<td>Average Subscription</td>
<td>$23.87</td>
<td>$23.68</td>
<td>$23.06</td>
<td>$24.19</td>
<td>$23.77</td>
</tr>
</tbody>
</table>

### LMAL OBSERVES FIRE PREVENTION WEEK OCT. 3-9

Fire Prevention Week will be observed from Oct. 3 through 9.

Observance of this especially designated week by LMAL will include an intensive fire protection program to be engineered by the section heads in cooperation with the fire wardens and the fire chief and his staff. The fire chief will visit each activity during the week and will advise and recommend such action as may be considered beneficial to the program.

Fire breeders will be searched out and corrected; potential birth places of fires in faulty construction, improper electrical installations, inflammable liquid storage, unsafe practices, and poor housekeeping will be eliminated. Fire fighting equipment will be rechecked for proper location and for adequate maintenance.

The continued cooperation of every employee is urged in making the fire protection program effective not only this week but every week.

---

**YOUR FIRST AND BIGGEST STEP IN FIRE PREVENTION CLEAN UP!**
FUND DRIVE BEGINS OCT. 20
WILL CONDUCT MATH CLASSES

Joseph A. Schad, local director for the Newport News War Training Program, announced that classes in arithmetic, algebra, geometry, and plane trigonometry will be conducted on Monday's and Thursday's from 7 to 9 p.m. at the Newport News High School.

Additional registrations will be accepted Monday, Oct. 18. At least 15 persons must register and pay a small registration fee in order to start any class listed. Members of the Newport News High School faculty will serve as instructors. Certificates issued by the State Board of Education will be awarded to students successfully completing the 12½-week courses.

WOMEN'S SAFETY HATS ON SALE

The Apprentice Tool Procurement Committee has a new shipment of the approved shop safety hats for women mechanical workers.

These attractive, air-cool, blue felt hats selected by the shop lead-women and approved by the Safety Engineer, may be obtained at the Apprentice Administration office on the second floor of the Warehouse Building in the West Area, or by calling Miss Anna Cumming, telephone 267.

The hats are sold at cost, $1.10 each. It is essential that women mechanical workers wear suitable and safe headgear and these hats are particularly adapted to this purpose.

COMMUNITY CHEST AND WAR FUND BENEFIT FROM CAMPAIGN

A Community Chest and War Fund Campaign will get underway at the Laboratory on Oct. 20. A selected group of women employees will begin soon to make their rounds of LMAL, soliciting contributions for the fund from staff members.

Each employee will be asked to give at least $1.25 for each $1,000 of their base pay. If successful, the campaign effort will realize approximately $5,000. E. McKinley Hutton, Personnel Officer, is organizing the drive.

LABORATORY NEEDS MORE DRAFTSMEN

The Laboratory is in urgent need of draftsmen of all types including architectural, structural, mechanical, electrical, heating, and ventilating. They are needed in connection with an important construction program that is expected to be commenced soon.

The assistance of the members of the Lab staff in locating qualified applicants for these positions is requested. If you know of someone interested, please communicate with T. Melvin Butler, Personnel Officer.

"While the need for these additional employees is temporary, it is expected that well-qualified persons employed may be retained indefinitely," it was pointed out by officials.

LAB BOWLING LOOP DISBANDS

The Laboratory bowling leagues have cancelled their schedules and disbanded for the remainder of the season, following the fire at the Wythe alleys last Monday night.

Efforts were made to make reservations at the Phoebus alleys and at the Sports Bowl, opposite Ferguson Park, but no satisfactory agreements were reached and the idea was abandoned because of the inconvenient location of both places.
Hold Those Fronts!

"Hold the home front; advance the war front." That is the slogan to which attention of LMAL employees is being called as organization is being completed for the Community Chest and War Fund Campaign to be conducted at the Laboratory Oct. 20 through 30.

A part of the funds goes to the Community chest and will do much toward "holding the home front" and at the same time cutting down on the number of drives to be held in the local community. The War Fund also receives a sizeable portion of the contributions, which will be used to keep up the morale of soldiers and war workers and also to help finance various war relief agencies, all of which will "advance the war front."

Let's accept our responsibility in this effort. Let's be "ready, willing, and able" this week when we are called upon to do our part.

Borrowing Is A Privilege

In order for us to assume the proper attitude on borrowing, we must first realize that it is a privilege. By doing so, we are more likely to treat borrowed property considerately.

Avoid hard feelings by obtaining permission before borrowing, and do not relax this code with familiarity. Equipment on loan to a fellow worker should be treated as his personal property.

A more cooperative spirit will probably result among fellow workers if we all keep in mind the old saying: "Do unto others as you would have them do unto you."

Are We Putting Out Enough?

"The Danes, realizing the futility of outright strike, are continuing on an increased scale their very effective slow-down tactics."

Let us analyze that recent radio report from a strictly personal viewpoint--our own work at the Laboratory:

If every employee works for Adolf in the same manner as the Danes are working against him--even if for but 45 minutes a day--his work output will suffer a ten per cent decrease. That slow-down would be tantamount to an actual strike of almost five weeks out of each year.

And those 45 minutes can be wasted so easily: a little "session" before the start of the day's work, a late start after lunch, an early anticipation of the quitting bell.

Taking all things into consideration, we believe that the work here is pleasant and interesting. So, if you can't buy all the war bonds that you would like to, let's see what you can do about an increased work output.

CLEVELAND CLIPPINGS

GO GET 'EM: Clevelanders now call for their pay checks at central distribution points set up in all buildings.

INVENTIVE GENIUS: Ray Labadie's invention of a box which enables Red Cross volunteers to speed up production and pack almost twice as many surgical sponges was noted in Lakewood's newspaper.

'GIGS' GET GOING: Organization of the Girls in Government Service Club is virtually complete. A choir, drama group and athletic teams are planned.

GERMAN SOUVENIR: A German aircraft engine, taken in the North African campaign, is on display at AERL. One of its features is an engine-driven cooling-air fan.

SQUIRREL HUNTERS: The membership committee of the AERL Rifle Club is following the squirrel hunters around. All huntsmen who miss their mark are being urged to join the club.

BONDS: Last-minute tabulations indicate that AERL's Third War Loan results were $59,275 in cash sales and $43,146 in pay roll deductions. The goal was exceeded by 19 per cent.

FLIGHT RESEARCH SPONSORS HALLOWEEN DANCE OCT. 30

Flight Research Division will sponsor a Halloween Dance on Saturday night, Oct. 30, at the Chamberlin Country Club, with dancing from 9:30 to 12:30. The Dominionaires will offer the music.

NACA employees are invited to attend. Only a limited number of tickets, which are $2 stag or drag, are available. They may be purchased from any employee of the Flight section.

NEW LOCATION: E. H. Derringer may now be reached through telephone 395, in the office in the Administration Building formerly occupied by F. L. M. Storm, of Civil Service.
THE NACA WAS JUST ONE YEAR OLD. United States entry into the war against the Central Powers was imminent. Aviation's pioneers, taking stock, concluded that a reliable plane engine was an imperative need. Because a bigger and better engine was needed immediately, the NACA and representatives of the aircraft industry met on June 8, 1916, in the Smithsonian Institution, where the divergent opinions of leaders in aeronautics gradually were moulded into a joint specification mutually acceptable. That historic meeting started a chain of events that, within a year, led to the birth of the Liberty engine. The session also set a precedent, being the first of many between the Committee and industry. It was considered the forerunner of the annual engineering conferences at Langley Field, the first of which was held in 1926 (above). Thereafter they were conducted at regular intervals and were fruitful in the advancement of civil and military aviation in America. When the present war began demanding the attention of American industry and research, the engineering conferences were halted. But the aeronautical world, cognizant of the good that came of the sessions, is looking forward to the day when they may be resumed. Among those appearing in the picture are Dr. George W. Lewis, the late Joseph S. Ames, Henry J. F. Reid, Elton W. Miller, and John W. Crowley in the center group; John F. Victory is at the extreme left. That handsome man in the light suit, third from right in front, is Walter Reiser.

BAR AUTOS OF INSURANCE DELINQUENTS FROM BASE

A large number of employees' automobiles were not permitted to come onto Langley Field Monday because they had not complied with the regulation requiring that motorcycles and automobiles having access to the Air Base have a special NACA identification tag attached to the State license plate on the front of the vehicles.

A steady stream of cars approached the entrance Monday morning, unable to proceed faster than a snail's pace because of the check. Several cars were observed to be parked on the Hampton side of the entrance, and the passengers either rode the buses or hitchhiked to their destinations.

The next morning, as a service to NACA employees, "Tiny" Hutton was on hand at the gate to issue tags to those who showed satisfactory evidence of insurance coverage on their vehicles. This inspired Carroll Christensen, of the Engineering Section, to send in the cartoon at left.
FOOTBALL LEAGUE
ACTIVE OCTOBER 17

The LMAL touch football league, which got under way on Sunday, Oct. 10, will continue Sunday, Oct. 17, with five games scheduled, four at the Hampton field and one at Woodrow Wilson.

At the Hampton field; 11 a.m.-16-foot Tunnel vs Structures; and Engineering Section vs Tank; 1 p.m.-West Area Machine Shop vs West Area Sheetmetal Shop; and Full Scale Tunnel vs Projeuler Research Tunnel.

At the Wilson field; 11 a.m.-Flight Research Maneuvers vs Air Flow Research.

With beautiful weather prevailing, last Sunday's games offered some exciting exhibitions with the following results: PRT had very little trouble in beating 8-foot Tunnel, 14 to 0; AFR had tough going but managed to eke out an 8 to 6 verdict over the Engineering Section; Structures overwhelmed the West Area Machine Shop, 20 to 0, and 16-foot Tunnel defeated West Area Sheetmetal Shop, 8 to 2. Full Scale and Tank will play their game at a later date.

Five games are also scheduled for Sunday, Oct. 24:
At Hampton—11 a.m.-West Area Sheetmetal Shop vs Structures; and Full Scale vs Engineering; 1 p.m.-West Area Machine Shop vs 16-foot Tunnel; and Flight Research Maneuvers vs 8-foot Tunnel; at Wilson—11 a.m.-PRT vs Tank.

League officials announced that Rule 4, Section 1, which states that the "defense must have no more than 4 men in the backfield," is in error. This line will be omitted from the rules.

Each team captain is requested to submit the final score and a brief account of the game to Schumacher of the Engineering Section.

HENRY WARD BEECHER: A man "is rich according to what he is, not according to what he has."

FUND DRIVE
(From page 1)

was mentioned.

A breakdown of the county budget shows what the following organizations will obtain: Virginia War Fund, $23,922; Boy Scouts, $2,999; Girl Scouts, $750; Children's Home Society of Virginia; $1,100; Elizabeth City County Visiting Nurse Association, $3,600; Weaver Home, $1,000; Virginia Cancer Foundation, $1,800; Colored Community Center, $900; Parent-Teacher Association, $700; Parent-Teacher Association (Colored), $500; Dixie Hospital, $2,000; Elizabeth City County Welfare Council, $100; campaign expenses (two years), $1,200; Community Fund expenses, $2,648; general fund and subscription collection contingency, $3,000.

CHARLES EVANS HUGHES: "A man has to live with himself, and he should see to it that he always has good company."

HEIR MAIL: Herbert Hoover, Pilot, has his head in the clouds these days. He's the proud father of a daughter, born Saturday night, Oct. 9.... John H. Quinn, AFR, and Phyllis Quinn, formerly of AWT, have a new son, Kevin.

USO PROGRAM

The program for the week of Oct. 18 at the Industrial USO in Hampton is as follows:

Monday: 7 p.m.-Movies, "There Goes My Heart," a comedy with Frederick March, Virginia Bruce, and Patsy Kelly.

Tuesday: American Legion night (Center closed to USO after 7:30 p.m.).

Wednesday: 6-9 p.m.-Dancing instruction; 12 midnight-3 a.m.-Swing shift.

Friday: 7-8 p.m.-Boxing instruction by Gus Boughan.

Saturday: Informal dancing until 11 p.m.

Sunday: Brain Busters Model Club meeting.

LOST: One board, black, double-faced, portable, with inv. no. 8703; and one chair, bent steel tubing, olive green, with inv. no. 9377. Please call 227 if you know of the whereabouts of the property.

CHARLES EVANS HUGHES: "A man has to live with himself, and he should see to it that he always has good company."

HEIR MAIL: Herbert Hoover, Pilot, has his head in the clouds these days. He's the proud father of a daughter, born Saturday night, Oct. 9.... John H. Quinn, AFR, and Phyllis Quinn, formerly of AWT, have a new son, Kevin.

USO PROGRAM

The program for the week of Oct. 18 at the Industrial USO in Hampton is as follows:

Monday: 7 p.m.-Movies, "There Goes My Heart," a comedy with Frederick March, Virginia Bruce, and Patsy Kelly.

Tuesday: American Legion night (Center closed to USO after 7:30 p.m.).

Wednesday: 6-9 p.m.-Dancing instruction; 12 midnight-3 a.m.-Swing shift.

Friday: 7-8 p.m.-Boxing instruction by Gus Boughan.

Saturday: Informal dancing until 11 p.m.

Sunday: Brain Busters Model Club meeting.

LOST: One board, black, double-faced, portable, with inv. no. 8703; and one chair, bent steel tubing, olive green, with inv. no. 9377. Please call 227 if you know of the whereabouts of the property.

CHARLES EVANS HUGHES: "A man has to live with himself, and he should see to it that he always has good company."

HEIR MAIL: Herbert Hoover, Pilot, has his head in the clouds these days. He's the proud father of a daughter, born Saturday night, Oct. 9.... John H. Quinn, AFR, and Phyllis Quinn, formerly of AWT, have a new son, Kevin.

USO PROGRAM

The program for the week of Oct. 18 at the Industrial USO in Hampton is as follows:

Monday: 7 p.m.-Movies, "There Goes My Heart," a comedy with Frederick March, Virginia Bruce, and Patsy Kelly.

Tuesday: American Legion night (Center closed to USO after 7:30 p.m.).

Wednesday: 6-9 p.m.-Dancing instruction; 12 midnight-3 a.m.-Swing shift.

Friday: 7-8 p.m.-Boxing instruction by Gus Boughan.

Saturday: Informal dancing until 11 p.m.

Sunday: Brain Busters Model Club meeting.

LOST: One board, black, double-faced, portable, with inv. no. 8703; and one chair, bent steel tubing, olive green, with inv. no. 9377. Please call 227 if you know of the whereabouts of the property.

CHARLES EVANS HUGHES: "A man has to live with himself, and he should see to it that he always has good company."

HEIR MAIL: Herbert Hoover, Pilot, has his head in the clouds these days. He's the proud father of a daughter, born Saturday night, Oct. 9.... John H. Quinn, AFR, and Phyllis Quinn, formerly of AWT, have a new son, Kevin.

USO PROGRAM

The program for the week of Oct. 18 at the Industrial USO in Hampton is as follows:

Monday: 7 p.m.-Movies, "There Goes My Heart," a comedy with Frederick March, Virginia Bruce, and Patsy Kelly.

Tuesday: American Legion night (Center closed to USO after 7:30 p.m.).

Wednesday: 6-9 p.m.-Dancing instruction; 12 midnight-3 a.m.-Swing shift.

Friday: 7-8 p.m.-Boxing instruction by Gus Boughan.

Saturday: Informal dancing until 11 p.m.

Sunday: Brain Busters Model Club meeting.

LOST: One board, black, double-faced, portable, with inv. no. 8703; and one chair, bent steel tubing, olive green, with inv. no. 9377. Please call 227 if you know of the whereabouts of the property.

CHARLES EVANS HUGHES: "A man has to live with himself, and he should see to it that he always has good company."

HEIR MAIL: Herbert Hoover, Pilot, has his head in the clouds these days. He's the proud father of a daughter, born Saturday night, Oct. 9.... John H. Quinn, AFR, and Phyllis Quinn, formerly of AWT, have a new son, Kevin.

USO PROGRAM

The program for the week of Oct. 18 at the Industrial USO in Hampton is as follows:

Monday: 7 p.m.-Movies, "There Goes My Heart," a comedy with Frederick March, Virginia Bruce, and Patsy Kelly.

Tuesday: American Legion night (Center closed to USO after 7:30 p.m.).

Wednesday: 6-9 p.m.-Dancing instruction; 12 midnight-3 a.m.-Swing shift.

Friday: 7-8 p.m.-Boxing instruction by Gus Boughan.

Saturday: Informal dancing until 11 p.m.

Sunday: Brain Busters Model Club meeting.

LOST: One board, black, double-faced, portable, with inv. no. 8703; and one chair, bent steel tubing, olive green, with inv. no. 9377. Please call 227 if you know of the whereabouts of the property.

CHARLES EVANS HUGHES: "A man has to live with himself, and he should see to it that he always has good company."

HEIR MAIL: Herbert Hoover, Pilot, has his head in the clouds these days. He's the proud father of a daughter, born Saturday night, Oct. 9.... John H. Quinn, AFR, and Phyllis Quinn, formerly of AWT, have a new son, Kevin.

USO PROGRAM

The program for the week of Oct. 18 at the Industrial USO in Hampton is as follows:

Monday: 7 p.m.-Movies, "There Goes My Heart," a comedy with Frederick March, Virginia Bruce, and Patsy Kelly.

Tuesday: American Legion night (Center closed to USO after 7:30 p.m.).

Wednesday: 6-9 p.m.-Dancing instruction; 12 midnight-3 a.m.-Swing shift.

Friday: 7-8 p.m.-Boxing instruction by Gus Boughan.

Saturday: Informal dancing until 11 p.m.

Sunday: Brain Busters Model Club meeting.

LOST: One board, black, double-faced, portable, with inv. no. 8703; and one chair, bent steel tubing, olive green, with inv. no. 9377. Please call 227 if you know of the whereabouts of the property.

CHARLES EVANS HUGHES: "A man has to live with himself, and he should see to it that he always has good company."

HEIR MAIL: Herbert Hoover, Pilot, has his head in the clouds these days. He's the proud father of a daughter, born Saturday night, Oct. 9.... John H. Quinn, AFR, and Phyllis Quinn, formerly of AWT, have a new son, Kevin.

USO PROGRAM

The program for the week of Oct. 18 at the Industrial USO in Hampton is as follows:

Monday: 7 p.m.-Movies, "There Goes My Heart," a comedy with Frederick March, Virginia Bruce, and Patsy Kelly.

Tuesday: American Legion night (Center closed to USO after 7:30 p.m.).

Wednesday: 6-9 p.m.-Dancing instruction; 12 midnight-3 a.m.-Swing shift.

Friday: 7-8 p.m.-Boxing instruction by Gus Boughan.

Saturday: Informal dancing until 11 p.m.

Sunday: Brain Busters Model Club meeting.

LOST: One board, black, double-faced, portable, with inv. no. 8703; and one chair, bent steel tubing, olive green, with inv. no. 9377. Please call 227 if you know of the whereabouts of the property.

CHARLES EVANS HUGHES: "A man has to live with himself, and he should see to it that he always has good company."

HEIR MAIL: Herbert Hoover, Pilot, has his head in the clouds these days. He's the proud father of a daughter, born Saturday night, Oct. 9.... John H. Quinn, AFR, and Phyllis Quinn, formerly of AWT, have a new son, Kevin.
**LIFE AT THE LABORATORY**

**MISCELLANY:** Betty Goddard, L Purchase, has departed the Lab to return home in Kansas City. . . . L Purchase has moved from Structures to the Warehouse to make way for the Construction Office. . . . Dr. Robert E. Street, AF, is now a professor at Dartmouth. . . . Elizabeth Smith, Receptionist, has returned to her home in Greensboro, N. C. . . . Recent visitors to the Lab were Kenneth N. Ackerly of Rosecrans Field, Mo., former LMAL employee; J. B. Wheatley, General Motors, another former employee; R. L. Schlesier, North American Aviation Company, a member of the NACA Structures sub-committee; E. H. Chamberlin, NACA assistant secretary; B. A. Hunsucker, S. B. Broaddus, R. J. Diggs, and E. H. Gilbert, all of AERL, and Charlie H. Helms, NACA's Washington Office. . . . Howard "Benny" Miller, formerly of LMAL, writes from Shiremanstown, Penn., that he enters the Army Air Corps as a cadet this month. "I'm awfully sorry I couldn't get around to say 'so long' to every one, but will do so now," Benny says, expressing a hope that "I may be able to come back and see all of you again after this is over". . . . P. B. Owen, Roanoke, has been added to the Planning and Procurement staff. . . . ICL welcomes Catherine Skrak of Pennsylvania, who has been at the field a week. . . . Ray Schaeffer, Blueprinting Room, is undergoing a minor operation. . . . Marie Ciulla, Bonds, thanks Personnel for the flowers sent upon the death of her grandfather in Birmingham.

LET'S HAVE A PARTY: Dick Skoog and his newly-acquired wife were presented with a sterling silver bowl by the FRM staff at a picnic at Oak Point last Sunday. Volleyball, horseshoe tossing, and dancing helped make the day a success. . . . Ester Wendling, FRM, entertained at a farewell party for Helen Woolard last Monday night. Helen and her husband, Henry, 16-foot Tunnel, are en route to the Ames Laboratory in California. . . . From all reports, the 19-foot Pressure Tunnel's outing at Oak Point was a riotous success. An outside guest, Jack Bruce of Construction, won a quart of rum by outsmarting his thirsty hosts in their own treasure hunt. Male guests also participated in a touch-football game, featured by one touchdown--called back because of the illegal use of a beer bottle (empty). . . . Ira Abbott was host at a party for Air-Flow Research last Saturday night. A highlight was the playing of "Truth or Consequences," patterned after the radio version. "Arky" Kantrowitz was master of ceremonies. Seymour Bogdanoff made a hit with his imitations of section heads. Eastman Jacobs displayed talent with an imitation of Sir Cedric's discussion of "The White Man's Burden". . . . The West Area Sheetmetal Shop softball team entertained members of the shop and their guests at a party Thursday night at the Sigma Club in Newport News. A feature was a play given by the B.T.O. Theater Guild, the actors including Harry Barritt, Jack Kinsler, Bob Stewart, Carl Cecil, Bert Miller, Eugene Hicks, Mike Panz, and Ralph Moscater. . . . Kay Kelsey, AWT, has been entertained at several parties the past week. Among them were a tea given by La Verne Priddy, and Lib Garner, AWT, and Margaret Swanson, Stability Analysis; a shower given by Evalyn Wells, AWT, and a "tea towel" party given by Mary Jean Thompson.

THE ROAD TO HAPPINESS: Catherine Richardson and Irving Turner, 16-foot Tunnel, were married Oct. 3 in the Hampton Methodist Church. Phyllis Rietheimer, also of 16-foot, was organist. The couple saw Minnesota on their honeymoon. Elsie Apple, AWT, is now Mrs. Norman Tucker. Hubby is a merchant mariner.
FIGURES MADE PUBLIC BY THE BOND OFFICE SHOW THAT DURING THE THIRD WAR LOAN CAMPAIGN, TOTAL CASH SALES AND PAY ROLL ALLOTMENTS AMOUNTED TO $159,754, INCLUDING $109,676 IN CASH SALES AND $50,078 IN PAY ROLL DEDUCTIONS. THE GROSS AMOUNT OF PAY ROLL FOR SEPTEMBER WAS $417,569. [CALCULATIONS WERE BASED ON REGULAR PAY ROLLS AND PART-TIME PAY ROLLS FOR SEPTEMBER ONLY. NO SUPPLEMENTAL PAY ROLLS WERE USED].

STARR TRUSCOTT WAS CHAIRMAN OF THE CAMPAIGN. THE SOLICITORS AND THE AREA THEY REPRESENTED INCLUDE:

- Full Scale Tunnel Area, Starr Truscott, chairman:

- West Area, Joseph Kotanchik, chairman:

- Administrative Area, Percy Crain, chairman:

**RE-ELECTED:** All officers of the BACA Janitor's Relief Club have been unanimously re-elected: J. Scott, president; O. Jones, vice president; S. Carney, secretary; W. Soman, assistant secretary; F. Parriss, treasurer; F. Jorden, chaplain; and L. Pressey, sergeant-at-arms. Banking, sick and social committees were appointed by the president. Next meeting: Oct. 17 at 5 p.m. at the Masonic Hall in Hampton.
D. E. HENRY ILL IN WEST VIRGINIA

D. E. Henry, of the Apprentice Division of the War Manpower Commission, who has been working in cooperation with the Langley Laboratory on manpower problems during the past two years, is convalescing at the Veterans Hospital at Huntington, West Va., according to a communication received from his secretary by Charles A. Hutchen, LMAL Apprentice Administrator.

Henry was taken ill while traveling in connection with WMC business. He will be confined at the hospital for approximately two weeks.

PINKERTON VISITS LMAL; STUDY TUNNEL DESIGN

Robert M. Pinkerton, former employee who left the Langley Lab to join the teaching staff of Texas A & M College, returned Thursday for a brief business visit.

Pinkerton was accompanied by H. W. Barlow, also of the college staff, and two civil engineers. During their stay here they will make a study of wind tunnel design. The college plans to build a wind tunnel on its campus.

While at LMAL, Pinkerton was employed in the Variable-Density Tunnel Section. He is teaching aeronautical engineering at Texas A & M.

BELIEVE IT OR NOT: A fellow by the name of Jack Knight in 1921 made the first night flight, from North Platte, Neb., to Chicago.

FERRY: Jacqueline Cochran was the first woman to ferry a bomber from America to England.

DRIVE OFF TO GOOD START

COLLECT $1,383 IN TWO DAYS; CAMPAIGN ENDS OCTOBER 30

The Laboratory's Community Chest and War Fund campaign got off to a good start Wednesday morning and as of 2 p.m., Thursday total contributions were $1,383.53, including $530.70 collected in the Administrative Area; $445.33 in the Full Scale Tunnel Area, and $407.50 in the West Area, according to a report by E. McKinley Hutton, chairman of the drive.

Approximately $1,000 was collected on Thursday, the day after employees received their pay checks. The effort will continue through next Saturday. The Laboratory's goal is $5,000, averaging about $2.50 per employee. Solicitors are requesting that each worker give at least $1.25 for each $1.00 of base pay.

The solicitors and the chairman of the various areas include:

Administrative Area, Lucy Dainbridge, chairman: Executive and Files, Frances Leigh; Electrical, Kitt Joerner; Stenographic, Duplicating and Chief Clerk's Office, Glenda Ellison; Library, Editorial, and Bulletin Office, Ida Young; Maintenance, Elizabeth Saunders; Physical Research, Anna George; Personnel, Stock, and Dispensary, Mary Jean Thompson; Selective Service and Administrative Office, Hilda Porter; Instrument Service, Margie Waters; TRL, Dorothy Cole; Technical Service, Eleanor Walters; ICL, Clara Anderson; AWT, Sally Mills; AFR and 24-inch Tunnel. Kay Thomason: Photo Lab, Roxie Carswell.

Full Scale Area, Virginia Tucker, chairman: Erection Shop, Bertha McClintock; PRT, Helen Ellett; 8-foot Tunnel, Alice Whitley; Full Scale Tunnel, Rosellen Hoffmann; Stability Research, Margaret Swanson and Florence Winton; Tank, Allie Faye Ellis and Mary Hill; Dynamic Model Shop, Ester Draughn; Engineering Section, Ann Ingle and Carroll (See page 6) SPEED: Flying 181.18 miles per hour, Amelia Earhart on July 6, 1930, established the first women's world speed record.

CARRIER: The U.S.S. Langley was the first aircraft carrier, having been converted in 1922 from the collier Jupiter. In 1930 the carrier was awarded the first Schiff trophy.

ESTER WENDLING, F.R.W., HAS TICKETS FOR DANCE

Tickets for the Flight Research Division Halloween dance to be conducted Saturday night, Oct. 30, at the Chamberlin Country Club, may be obtained from Ester Wendling, F.R.W., telephone 229.

Dancing will be from 9:30 to 12:30, with music by the Dominionaires. NACA employees are invited to attend.
Calling Time On the Axis

A Bulletin reporter asked eight persons in what theater the war would end first; and how long it would be before the entire war was at an end. There were some interesting reactions. Six-predicted that the European conflict will conclude either in 1944 or soon thereafter, one figured the Nazis would be licked by 1945 and one estimated 1946. The time required to defeat the Japs was estimated at from two to ten years.

The following comments are not the result of attempts to second guess such an unpredictable affair as a world war, but are offered as an indication of some of your fellow-workers' thoughts on the subject:

F. L. N. STORM, special U. S. Civil Service representative: "The war could end next year if everybody at home would but realize that WE ARE AT WAR. The war will end with Germany as soon as fighting is affected on German soil. Japan is a different matter. She is now returning to us our scrap. We under-estimated her abilities and treacheries. She has resources and her fanatical tendencies toward suicidal supreme sacrifices. All these qualities spell "unsurrender" to the last man; by dying they believe they perpetuate their souls, if they have any, for eternity."

WARREN GILMAN, L Purchase: "The war with Europe will be over within another year; and after that, another year of concentrated fighting will end the struggle between Japan and the Allies."

CHARLES F. DANIELS, Tank: "Germany will fold up within the next year and after that it will take a year to defeat Japan. This will probably take longer because we are more interested in winning the peace than in winning the war."

JERRY TEPLITZ, 19-foot Tunnel: "The war will end in the European theater by September, 1944. The entire war will end in 1945. Reasons: intuition."

ED HONE. Administrative: "I believe that the quantity of war materials and manpower of the German Empire will be so diminished that they will not be able to continue on in the war another year. The Allies can then concentrate their efforts in wiping out the Japanese and I feel that with such concentrated effort, the mission should be completed by 1945."

JOHN HUBBOLT, Structures: Taking a shot in the dark, he predicts that the war with Europe may be over by the latter part of 1945. The war will not be completely over before 1946 or 1947, because it will be functionally impossible to get it over any sooner. There are so many islands now occupied by Japan, and it will take time to capture each individual one."

DAVID GOLDBMANN, Tank: "The Allies will defeat Germany in not less than three years. After the defeat of Germany, it will take at least five more years to defeat Japan. We tend to under-estimate very badly the strength, potential strength, and pertinacity of our opponents—especially the Japanese."

ELEANORE GOBLE, 16-foot Tunnel: "The war in the European theater will end in the summer of 1944. However, the war with Japan will not end until around 1945, because our approach to Japan is so limited and we will have to take it inch by inch."

CLEVELAND CLIPPINGS

CHEST GOAL: AFRL's goal in the Cleveland War Chest campaign is $13,500. The drive got under way Oct. 18 and continues for ten days. Dana W. Lee is chairman.

FOUR FREEDOMS: Employees of the Cleveland Lab plan to attend the Four Freedoms War Bond Show in the Ohio city from Oct. 25 through Oct. 30. Norman Rockwell's original paintings of the four freedoms will be displayed, as will original manuscripts of other artists.

HAVEN: Clevelanders are building a haven in Rocky River Valley for rabbits, squirrels, peasants, quail and other birds which do not migrate.

SOUND EFFECTS: The steam siren at AFRL now blows twice daily—at the beginning and end of the work day and at noon.

JAP ENGINE: A super-charger from a Japanese twin-engine medium bomber power plant, which crashed in Australia, is under study at AFRL. It is a 14-cylinder radial.

NEW DRESS: AFRL plans to print its weekly newspaper by offset soon, with plenty of photographs promised. A new vari-type will be used.

SPORTS: AFRL sports these days include bowling, rifle shooting, and basketball.

INDUSTRIAL USO: The program this week: Monday: Movies—"The Blockade"; "The Vagabond" and shorts; Tuesday and Saturday: Informal programs; Wednesday: Dancing; swing shift party starting at 12 midnight; Thursday: Orchestra rehearsal or jam session; bowling; Friday: Boxing instruction from 7 to 8 p.m.; Sunday: Sing.

PIONEER: Lieut. F. E. Humphreys in 1903 became the first Army pilot.

TOWED: Frank Hawks was the first to cross the continent in a towed glider.
TOUCH FOOTBALL TEAMS SHOW IMPROVED FORM

The second week of the NACA touch football league found all teams in improved form.

Structures stopped 16-foot Tunnel, 19 to 0, with Ochiltree, Sperry, and Neff shining on defense for the victors, while Pete Korczynski was outstanding for the losers, his passing being a constant threat.

Full Scale defeated PRT, 8 to 0, obtaining a two-point lead when Mastrocola fumbled behind his goal line, and scoring in the final quarter on a pass from Claude Hart to Gerry Brewer.

FRM won a closely-fought game from AFR, 6 to 0, the winners scoring on a toss from Matthews to Craig.

The Engineering Section swamped the Tank, 24 to 6. The first touchdown was scored by Engineering on a pass from Dodson to Blank. The Tank tied it up a short while later on a pass from Jarvis into the end zone. Schumacher snagged a "sleeper" pass to make it 12 to 6, and added two more scores when Kabana intercepted a Tank pass and Link heaved a long one to Sadler.

The schedule has been revised, since West Area Machine Shop and West Area Sheetmetal have combined to form the West Area Shops. Team captains should send complete writeups of the games to Schumacher, Engineering Section, by Oct. 25.

Games Oct. 24 include: 11 a.m.--West Area Shops vs. Engineering Section; and Full Scale vs. 8-foot Tunnel, both in Hampton; Structures vs. PRT, at Wilson School; 1 p.m.--16-foot Tunnel vs. AFR at Hampton, and Tank vs. FRM at Wilson.

Games Oct. 31: 11 a.m.--Structures vs. Tank; Engineering Section vs. 8-foot Tunnel, both in Hampton; 16-foot Tunnel vs. Full Scale at Wilson.

The league standings:

<table>
<thead>
<tr>
<th></th>
<th>Won</th>
<th>Lost</th>
<th>Pct.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Structures</td>
<td>2</td>
<td>0</td>
<td>1.00</td>
</tr>
<tr>
<td>FRM</td>
<td>1</td>
<td>0</td>
<td>1.00</td>
</tr>
<tr>
<td>Eng. Sect.</td>
<td>1</td>
<td>1</td>
<td>0.50</td>
</tr>
<tr>
<td>Full Scale</td>
<td>1</td>
<td>1</td>
<td>0.50</td>
</tr>
<tr>
<td>Tank</td>
<td>1</td>
<td>1</td>
<td>0.50</td>
</tr>
<tr>
<td>16' Tunnel</td>
<td>1</td>
<td>1</td>
<td>0.50</td>
</tr>
<tr>
<td>PRT</td>
<td>1</td>
<td>1</td>
<td>0.50</td>
</tr>
<tr>
<td>AFR</td>
<td>1</td>
<td>1</td>
<td>0.50</td>
</tr>
<tr>
<td>8' Tunnel</td>
<td>0</td>
<td>1</td>
<td>0.00</td>
</tr>
<tr>
<td>W. Area Shops</td>
<td>0</td>
<td>2</td>
<td>0.00</td>
</tr>
</tbody>
</table>

CONTRIBUTION MADE TO THE RED CROSS

A total of $15.96, credited to the balance of the old NACA Relief Association, has been turned over to the Red Cross, in accordance with a vote taken among the 34 members of the organization who are still employed at the Langley Laboratory.

The relief association discontinued its activities in 1929. The $15.96 was sent to the Elizabeth City County Red Cross chapter and a recent reply from Mrs. George W. McAllister, executive secretary, acknowledged receipt of the sum with "sincere appreciation" and the assurance that "it shall be used for a most worthy cause."

SOLOS: Amelia Earhart on May 20, 1932, became the first woman to make a solo flight across the Atlantic, five years to the day after Charles A. Lindbergh had become the first man to solo the broad expanse.

REPRODUCTION AL SAYS:

"MAKE LETTERS HEAVY"
WHAT'S YOUR SCORE
Answers to Quiz (Questions on Page 3)
1. Starr Truscott, Chief of Hydrodynamics.
2. Crafts, Protective and Custodial.
3. 386, and ask for E. McKinley Hutton.
4. $5,000 for personal injuries to one person, $10,000
   personal injuries in one accident, $5,000 property damage.
5. Richmond.
6. The Community Chest and War Fund, with a laboratory
   goal of $5,000. Plan now to participate.
7. Mrs. Lenore D. Hulcher, whose office is located in the
   Personnel Section quarters in the Technical Service Building.
8. Ernest Johnson.
9. Twenty miles per hour, a speed you'll be wise to observe
   at all times.
10. None, so finish up that partially-filled stamp book and convert
    it into a bond which will pay you one dollar for every 75 cents.
DIES: Fred Kraemer, Engineering Section, died last Saturday
    at the Veterans' Administration Facility, Recoughtan,
    after an illness of one month. Final rites were Oct. 19 at
    the Hampton National Cemetery.
Kraemer began his affiliation
    with the NACA in 1939.

WILL THE owners of NACA tags No. 280, 339, and 899 please
    communicate with E. McKinley Hutton, Personnel Office.
LOST: Inv. No. 10175—millivoltmeter, ranges 50, 20, 5, and 1 millivolts,
    Weston model 672, Ser. No. 249; 6560—
    marathon electric motor, one-fourth horsepower, type No. 110 volts, 5.5
    amps., 60 cycle A.C., Ser. No. 351452; w-160—oil cooler, Wright, Part No.
    42757; w-89—propeller hub, design No. 1852; w-152—propeller hub, design 5417
    (9-740), Ser. No. 1-16233; A-68—
    three metal propeller blades, Part No. 31-1978; A-177—propeller hub snap
    ring, Part No. AN-5869-66; N-186—
    eclipse, hang electric inertia, Series VI, model 204B-8, Ser. No. 413; 10082—
    emery pressure cell, approximately three and 37-64 inches diameter, Ser.
    No. SS-1-10; 10083—emery pressure cell, approximately three and 37-64
    inches diameter, Ser. No. SS-5-7; please notify W. A. Bartlett, P.I.,
    telephone 234, if you know the whereabouts of any of the property.

FORM SAFETY ORGANIZATION AT LMAL
A safety organization for LMAL has been consummated, includ- 
cluding an executive safety committee, an operations
    safety committee, safety engineer, safety coordinator, and accident investigation
    committee.
The executive safety coun-
    mittee, comprised of ten men appointed by the Engineer-in-Charge, appoints subcommit- 
    tees, reviews and acts on reports and recommendations of the subcommittees, conducts
    periodical consideration of trends and progress in the control of accident frequency
    and severity, considers major changes in safety organization and activities affecting matters
    of policy, and discusses abnormal expenditures for accident prevention.

"The direct administration of safety work in all its phases is the responsibility of the operations safety committee", according to safety organization plans. Its specific responsibilities and activities include, primarily, the discussion of accident-producing conditions and circumstances and recommendation of practical effective corrective action.

CONTRIBUTE NOW TO COMMUNITY CHEST AND WAR FUND

"Junior, That Is NOT A B-25"
**VACATION RHAPSODY**

RETURN OF THE NATIVES: Ester Wendling, FRM, from Richmond, where she attended the wedding of a former schoolmate; Louise Cox, FRM, from home in Smithfield; Dick Sawyer, FRM, and Mary Lou Duval, Stability, from Mary Lou's home in Arvonia; Louise Paul and Virginia Perry, both AWN, from their homes in North Carolina; Alfred Tankersley, Tank, from Bedford; Virginia Hinkins, East Area Computing, from home in Pittsburgh; Ann Smith, ALD, and Audrey Campbell, Editorial, after recuperating from an encounter with a truck (Ann was en route to her home in Crewe and Audrey to Charlottesville when the traffic accident took place outside of Richmond); Helen Wall, ALD, from Aspen; Bill Aiken, ALD, from home in New Jersey; Robert W. Kamm, Spin Tunnel, from Minneapolis; Vernon Ward, 16-foot Tunnel, from New York; Jack Runckel, 16-foot Tunnel, from Wisconsin; Mr. and Mrs. Irvin Turner, 16-foot, after a Minnesota honeymoon; Indie Atkins, Files, after a fling in New York city; Annie Brown, Pay Roll; from Baltimore where she and a group of 24 attended the Duke-Navy football game; Doris Bloxom, Pay Roll, from the Eastern Shore.

THOSE STILL AWAY: J.R. Thompson, in New Mexico; Eleanor McKinstry, AWL, at home in Kennet Square, Penn.; Mary Sue Clark, at home in Martinsville; Hazel Redding, AWL, at High Point, N.C.; Bob Havens, Tank, sunning in Florida; Larry Fogarty, 19-foot Tunnel, in Bozeman, Montana; Mary Thorne Tyson, ICL, in New York; Dot Severance, one of the Bulletin's art and news contributors, at her alma mater, Woman's College of the University of N.C., and her home in Gastonia, N. C.

LOOPING: Ruth Law claims to have been the first woman to loop in a plane, in 1915.

**Life At The Laboratory**

MISCELLANY: The Army's taking over 715 Kecoughtan Road for officers' quarters and now 12 NACA girls are looking for a new home....Dave Buchanan, Warehouse, and Harry Barritt, West Sheetmetal, were elected president and vice president, respectively, of the Sigma Club in Newport News. Their club is conducting its 17th anniversary dance Oct. 29 at the Newport News Armory....Recent visitors include Dr. W. F. Durand, member of the Committee and a former chairman; Igor Sikorsky, of the Sikorsky Aircraft Company, who in a speech before the Engineers Club of the Virginia Peninsula and the Society of Automotive Engineers, praised the work of the NACA; Julian Allen, of the Ames Lab in California; L. M. Westcott, of AERL, and H. C. Chandler, Jr., of the Washington Office....Robert Mixson was in Washington the past week because of illness in his family....Cletus Vincze, ICL, and his wife celebrated their paper anniversary last Sunday.... Ralph Lewis is presently leading in the chess tournament conducted at the ICL each lunch period....Beatrice Harlow, Blueprint Room, has been out a week tending her husband, injured in a shipyard accident....As a result of an encounter with a steel trap door, which he attempted to open the hard way, Robert R. Graham, 19-foot Tunnel, plans to pack up his hemstitched scalp and apply for a transfer to Aberdeen Proving Grounds--armor piercing division. Incidentally, Robert and Nell, I Purchase, celebrate their first anniversary this month....Elizabeth Budde, Leave Supervisor, is out on extended sick leave....Pay Roll and Bonds entertained recently at the home of Kitty Parker for Mary Whitehead and Virginia Lee, who have returned to their respective homes since their husbands went overseas for service duty....

LET'S HAVE A PARTY: The Photo Lab gave a farewell party Monday night at the Pick-a-Bone for three staff members, who have departed LMAL. Jim Braddy has gone to Chicago, Eileen Bugg to Baltimore, and Harold Zeger to New York. Harry Clason, former member of the Photo Lab, now on furlough from the Army Air Corps, attended with his wife. This marked the sixth farewell party given by the Photo Lab since Aug. 23, 1942. The group plans another party on the first Aug. 23 after the war. Twenty-four attended Monday's affair....The Personnel and Selective Service sections frollic tonight at a party at Oak Point.

THE ROAD TO HAPPINESS: Wedding bells rang last Saturday for Ted Elder, Engineering Section, and Lucille Mason, of Fox Hill, at the bride's home....Scotty Bowling, West Area Machine Shop, will be wed Sunday, Oct. 24, to Marie Mann in Burlington, N.C. Charlie (Cupid) Garrison will be best man.....Christine Ailor, 19-foot Tunnel, is engaged to Jack Culppepper, 8-foot Tunnel......Frances Winder, Full Scale Tunnel, and Jack Reeder, Pilot, are engaged.....Durwood Dereng, Dynamic Model Shop, was married recently to Virginia Witt, also of Dynamic Model....Dorothy Cole and Stan Brigham, both of IRL, are engaged....

HEIR MAIL: R. R. Neely, 19-foot Tunnel, and Viola Neely, formerly of AWL, are proud parents of a son, born Thursday, Oct. 14....J. E. Gillespie, LW Purchase, is beaming over the birth of a daughter, Wednesday, Oct. 13.

DISCONTINUED: "Air Progress," a street and Smith publication, has been discontinued for the duration, by a woman was awarded to Lieut. Elsie Ott on March 28, this year at Louisville.
FUND DRIVE
(From page 1)

Christensen; Machine Shop, Katy Banick; Model Shop, Rose Keese; 19-foot Tunnel, Polly Obst and Helen Northcross; ALD, Patsy Cole: Hangar, Eleanor Schueller; Computing, Willie Barger.

West Area, Mary Jones, chairman: L Purchase, Mary Jones; Structures, Shirley Riley, Lillian Caminade, Ella Moorehead; 16-foot Tunnel, Louise Moss and Hazel Parrott; Prop Shop and Foundry, Ann Blands; Stability, Shirley Stubbs; Construction, Mary Lois Vance and Deloris Caffee; Generating Plant, Draper Smith; Impact Basin, Mary Ellen Bass; Machine Shop, Marie Warlitner; Sheetmetal and Paint Shops, Anne Robinson; Warehouse, Chisman Booker; Stock, Byrd Buckley; Apprentice Administration, Martha Willis; LW Purchase, Lottie Brown; Cost, Kitty Thomas and Lucette Biver; Computers, Thelma Stiles; Property Office, Esther Valin.

"BLIND" FLYER: Jimmie Do- little accomplished the first "blind" flight on Sept. 24, 1929.

AIR MAIL: The first air mail flight occurred on May 15, 1918, from Washington, D.C., to New York City.

BALLOON: Capts. Orvil Anderson and A. W. Stevens made a stratosphere balloon record of 72,395 feet on Nov. 11, 1935.

SEE AMERICA FIRST: Calvin P. Rodgers made the first flight across the United States Sept. 17-Nov. 5, 1911.


HIGH BOY: High altitude flying was born in 1919 when Major Schroeder set a world's record of 38,180 feet.

"Well, I'm Sure My Button's Right Here".

VICTORY THROUGH AIR POWER: The first complete victory by airplanes alone occurred on March 3, this year, when 22 Jap vessels were sunk and 55 planes shot down.

THE FUTURE is in your hands

DON'T GET HURT!
KNOX TO VISIT LMAL NOV. 4

SEC晒ERY OF NAVY TO SPEAK TO EMPLOYEES AND TOUR LAB

Frank Knox, Secretary of the Navy, will visit the Langley Laboratory on Thursday, Nov. 4, according to an announcement by H. J. Reid, Engineer-in-Charge.

Secretary Knox will tour the Laboratory and especially plans to observe some of the Naval projects being studied here. It is planned to have the Laboratory staff assemble at 1:15 p.m. in the Structures Research building in the West Area to hear an address by the Navy Department executive.

The official plans to arrive at Langley Field by plane at 10 a.m., accompanied by a delegation which will include Rear Admiral John S. McCain; other high Naval officials; Dr. Jerome C. Hunsaker, Chairman of the NACA; Dr. George W. Lewis, Director of Aeronautical Research of the NACA, and John F. Victory, NACA Secretary.

In order that the Laboratory staff may arrive at the Structures building for the address quickly and conveniently, lunch hour for employees may be moved up about an hour; and staff members may be asked to accommodate their riding combinations to and from the scene of the gathering as a means of helping to see page 4

GREEN COW DANCE NOV. 5 AT ARMORY

The Green Cow will sponsor a dance on Friday, Nov. 5, at the Hampton Armory, from 9 to 12, according to an announcement by T. Melvin Butler, chairman of the organization.

Music will be furnished by Edward Travis and his orchestra.

Season membership tickets for the year 1942-43 are good for admission.

No tickets will be sold at the door. Those planning to attend, who do not have tickets, may purchase them from any representative of the Green Cow committee.

Employees Invited To Lecture Nov. 1

Fula Kennedy Long, wife of Frank Long, director of the Industrial USO Center on North King Street in Hampton, and an authority on South American affairs, will lecture on Monday, Nov. 1, at 8 p.m. at the Industrial USO and employees of the Langley Laboratory have been invited to attend. There will be no charge.

Tentatively, Mrs. Long's subject is listed as "Latin American Youth Looks Forward".

A daughter of missionaries, she spent 20 years in Brazil, the place of her birth, gathering information which she has imparted to hundreds of audiences. That she has knowledge of her subject is evidenced by such observations as one made by Dr. J. E. Moreland, president of Randolph-Macon College, who pointed out that, "Few people are better qualified to speak interestingly and authoritatively on Brazil or Latin America."

Miss Sallie L. MacKinnon, secretary of the Woman's Board of Foreign Missions (Methodist), New York City, said: "...I made a visit to South America and learned from many sources that Mrs. Long's place of leadership in thought and see page 4
The Laboratory's Community Chest and War Fund total, as of 3 p.m. Thursday, Oct. 28, was $2,948.16, it was announced by E. McKinley Hutton, who is in charge of the campaign here. This was $2,051.84 short of the $5,000 goal set for the Laboratory.

The totals included $1,099.35 collected by solicitors in the Full Scale Tunnel Area, in charge of Virginia Tucker; $1,087.71 in the Administrative Area, of which Lucy Bainbridge is chairman, and $761.10 in the West Area, where Mary Jones is conducting the effort.

H. J. E. Reid, Engineer-in-Charge, in a statement made during the past week, requested that "everyone reconsider the question of their gifts...and try to give it greater support". Pointing out that he considered the Laboratory's quota a modest figure, Mr. Reid, who is chairman of the Admissions and Auditing Committee of the Elizabeth City County Community Chest, said that "the various organizations participating in the local Community Chest are most worthy of your support" and emphasized "that your contributions will be used wisely". Fifty-three per cent of the money contributed in the local campaign will go to the War Fund, which includes among other agencies the USO.

Mr. Reid addressed solicitors of the three areas the past week, explaining various phases of the Community Chest and War Fund effort.

It is possible to make pledges for collection at a later, more convenient date and the various solicitors will be glad to explain this to staff members. The names of solicitors and the area in which they are canvassing are listed in last week's Bulletin.

STOP-LOOK-LISTEN: "When you talk you only say something you know—when you listen you learn what someone else knows.

FOOLPROOF: Floyd Smith in 1910 perfected the first foolproof parachute.

WIRELESS: Three decades ago J. A. D. McCurdy sent and received the first wireless in the air.

REGENERATION: "Ideas are the mightiest influence on earth. One great thought breathed into a man may regenerate him."

INTRODUCTION: Aviation's "beam" system was introduced by M. S. Boggs on Sept. 16, 1931.

EARLY BIRD: Harriet Quimby in 1911 became the first woman to hold a United States pilot's license.

VACATION RHAPSODY

RETURN OF THE NATIVES:
R. E. Mixson, ICL, from Washington; Gloria Nestor, ICL, from home in West Virginia; Helen Carlberg, ICL, from Wisconsin; Don Severance, ICL, from North Carolina; Herman Ellerbrock, Cowling and Cooling, from Cleveland, where he, along with Abe Silverstein and Gene Manganiello, formerly of LMAL, helped Pearl Young celebrate her birthday; Marty Weiner, Engineering Section, from Philadelphia; Elizabeth Hartwell, Tank, from Manassas; David Goldenbaum, Tank, from New York, where he took in the best plays; Virginia Salley, ALD, from Richmond; John Muncy, assistant procurement officer, from Richmond; Shirley Huxter, 16-foot Tunnel, from home in Richmond; Phyllis Riehtheimer, 16-foot Tunnel, from home in Philadelphia; John Houbolt, Bob Weinberger, and Pat Chiariito, Structures, from a week-end in Washington; John Neff and Manny Stein, Structures, from the Navy-Georgia Tech game in Baltimore; Lloyd Fisher and Robert Tarrison, Tank, also back from the Middie-Tech tilt; Audrey Campbell, Editorial; Roy Lange, Full Scale; Helen Flannagan, ALD, and Ben Johnson, AFR, also from the game; Rene Rhodes, AWT, from home in Richmond; Eleanor McKinstry, AWT, from home in Pennsylvania; Wanda Carpini, Duplicating, from Richmond.

THOSE STILL AWAY: Ruth Miller and Mary English, Editorial, at their homes in Alabama, where they are visiting their alma mater, Huntington College; Wilfred Kelly, Tank, at home in Lexington, Ky.; Jerry Crouch, ALD, at home in South Carolina; Madeleine Harrison, Stenographic, at Spence Field, Moultrie, Ga., where she attended the graduation of a "friend"; "Goody" Goodloe, Tank, at home in Crozet.
FRM ASSUMES FOOTBALL LEAD

The past week saw some changes in the NACA touch football league standings.

Structures, undefeated until last Sunday, was swamped by PRT, 21 to 0. The winners scored in the first quarter on a sleeper play from Mastrocola to Cohen. A pass, Mastrocola to Nichols netted the extra point. PRT scored on a safety in the third period and again in the third when Cohen intercepted a pass and ran 50 yards for a touchdown. The final score was made in the fourth by a line buck through center, with Nichols carrying the ball over from the one-yard line.

Flight Research Maneuvers-defeated the Tank, 14 to 0, to move into first place. FRM scored on the opening plays on a pass from Sjoberg to Reeder, with Matthews converting. Tank defense tightened until the third, when FRM scored on a pass, Sjoberg to White, Matthews again converting.

Engineering Section topped the West Area Shops, 14 to 7, in a closely-contested tussle. West Area scored first on a toss from Seward to Cecil, and counted the extra point on a fake kick and pass, Seward to Forrest. Engineering came back and scored on a short pass from Schumacher, which Blank carried over. The kick for extra point was wide. In the third quarter a bad pass set the Shop team back for a safety and Engineering took the lead, 8 to 7. West Area tried several last-minute passes in the fourth and Nutter knocked one into the arms of George Sadler, who galloped 50 yards for the winning marker.

AFR beat 16-foot Tunnel, 6 to 0, in another close game, with the margin of victory being a touchdown pass caught by Jack Erwin. The 16-foot Tunnel offense was bottled up effectively by the AFR line.

Full Scale forfeited to 8-foot Tunnel.

The league schedule follows:

Oct. 31: Engineering vs. 8-foot, and Structures vs. Tank at Hampton, 11 a.m.; 16-foot vs. Full Scale at Wilson, 11 a.m.; West Area Shops vs. FRM at Hampton, 1 p.m., and PRT vs. AFR at Wilson, 1 p.m.

Nov. 7: AFR vs. 8-foot, and PRT vs. Tank at Hampton, 11 a.m.; West Area Shops vs. Full Scale at Wilson, 11 a.m.; Engineering vs. 16-foot at Wilson, 1 p.m., and Structures vs. FRM at Hampton, 1 p.m.

The standings:

<table>
<thead>
<tr>
<th></th>
<th>Won</th>
<th>Lost</th>
<th>Pct</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRM</td>
<td>2</td>
<td>0</td>
<td>1.000</td>
</tr>
<tr>
<td>Structures</td>
<td>2</td>
<td>1</td>
<td>0.667</td>
</tr>
<tr>
<td>Engr. Section</td>
<td>2</td>
<td>1</td>
<td>0.667</td>
</tr>
<tr>
<td>PRT</td>
<td>2</td>
<td>1</td>
<td>0.667</td>
</tr>
<tr>
<td>AFR</td>
<td>2</td>
<td>1</td>
<td>0.667</td>
</tr>
<tr>
<td>8' Tunnel</td>
<td>1</td>
<td>1</td>
<td>0.500</td>
</tr>
<tr>
<td>16' Tunnel</td>
<td>1</td>
<td>2</td>
<td>0.333</td>
</tr>
<tr>
<td>Tank</td>
<td>1</td>
<td>2</td>
<td>0.333</td>
</tr>
<tr>
<td>Full Scale</td>
<td>1</td>
<td>2</td>
<td>0.333</td>
</tr>
<tr>
<td>W. Area Shops</td>
<td>0</td>
<td>3</td>
<td>0.000</td>
</tr>
</tbody>
</table>

DAY NURSERY DETAILS BEING WORKED OUT

Mrs. Lenore D. Hulcher, counselor to women, announced today that efforts are still being made to establish a day nursery to accommodate young children of mothers employed at the Langley Laboratory.

She pointed out that since the announcement late in September that the establishment of a nursery was contemplated through the cooperation of the Elizabeth City County school system, final details have been in the process of being worked out.

An announcement will be made as soon as definite plans for the project are completed.

THE MERRY WIDOW TO BE PRESENTED

The Newport News Operatic Society will present Franz Lehar's opera, "The Merry Widow", at the Newport News High School on Monday and Tuesday nights, Nov. 8 and 9, at 8 p.m. Alessandro Angelucci will conduct.

Three NML employees are affiliated with the organization and two of them, Ben Johnston and Richard Sawyer, are taking part in the presentation. The other affiliate is Howard Garris. Tickets may be obtained from either of the three. Garris may be located through telephone 264, Johnston through 249, and Sawyer through 229.

The three-act opera opens in the Marsonian Embassy in Paris, where Sonia (the Merry Widow) is visiting. Every man she meets wants to marry her, mainly for pecuniary reasons. Efforts are made to intrigue her into marrying Prince Danilo in order that her country will not lose her wealth. The second act takes place in the Merry Widow's garden at home, where a party holds forth. The third act is set in Maxim's Cafe, with much comedy being offered through the flirtations of the husbands with the Cafe girls. When the Widow announces that she will lose her money if she marries, her suitors suddenly lose interest. The climax brings a delightful surprise.

Principal characters include Arthur Hanna of Norfolk, Jalidan; J. W. Rowe, Cassada; E. A. Carter, waiter; Bruce Vanderboegh, Prince Danilo; George Ellis, Popofs; Ruth Meanly, Natalie; May Blaha, Olga; Florence Clay, Sonia, the Merry Widow. There are 50 in the chorus and dance groups.

BONDS BUY BOMBERS

JUDGE A MAN not by his great qualities, but by the usage which he knows how to make of them.
ANNE WYTHE HALL WILL OPEN SOON

Pending the installation of furnaces in the buildings, the opening date for the Anne Wythe Hall, located in the vicinity of Kecoughtan Court Apartments in the Wythe District, has not been set as yet. However, in all probability, it will open within the next two weeks, according to E. McKinley Hutton, Housing Officer.

The residence halls, which will house 365 unmarried women now engaged in defense work, will consist of three dormitories, a community building, and an infirmary. Two of the dormitories will be composed of double rooms and one, of single rooms. The building of a cafeteria is being planned and it is hoped that it will be completed before the first of the year.

Each dormitory will have a large bath and a laundry room located on each floor. On the first floor of each building there will be a lounge room where dates may call for the girls, and each building will also have a pantry-like room where girls may fix midnight snacks.

The community building, which will be located in the center of the court, will contain the main office, a large ball room, a lounge room where girls may entertain their callers, a library, and a soda bar.

The infirmary, which will be available to all occupants, will have four beds, and a registered nurse will be on duty to take care of those who are ill. All the services will be free except meals.

The whole set-up will be under the supervision of a resident manager with a house mother in charge of each building. Complete rules have not been made; however, buildings will observe a closing hour at 11 p.m. This closing time will by no means be a curfew, but purely a safety measure as protection against prowlers. Anyone desiring entrance after 11 o'clock may obtain admittance by simply contacting the watchman on the grounds.

The rooms are attractively decorated with red and black block linoleum floors and are furnished in blonde maple. Each double room will be furnished with two beds, two chairs upholstered in red leather, a chest of drawers, two closets, two lighting fixtures, and three blankets each. Linens will be changed twice each week, and hand towels will be furnished daily and bath towels every other day. The rooms will be heated by hot air with forced ventilation. Single rooms, which will have the same type of furniture, will have one bed, a chest of drawers, a chair, and one closet.

Rates will be $5 per week for a single room and $3 per week per person for a double room.

Arrangements have been made through the Laboratory's housing officer, E. McKinley Hutton, so that NACA girls will not need to go through any formality in making application for rooms, except to apply in person at the central office of the community building when the hall opens. At that time they will be assigned a room. This is believed by Mr. Hutton to be the simplest and most satisfactory method.

KNOX TO VISIT

(From page 1)

solve the transportation problem.

The Structures building's main room is being cleared this week to make room for the large NACA audience. A special amplifying system is being installed for the occasion.

Beginning at 10:05 a.m., the tentative program includes a visit to the Hangar, Tank, Free Flight Tunnel, Spin Tunnel, Full Scale Tunnel, and High Speed Tunnel. Secretary Knox plans to leave for Washington at 2 p.m. by plane.

The Laboratory staff will be notified in regard to the detailed program when it is settled upon.

EULA KENNEDY LONG

(From page 1)

Life in Brazil was equalled by no non-Brazilian woman... She is gracious and charming in personality and will appeal to large audiences or small groups."

Mrs. Long's marriage to Frank Long was the culmination of a shipboard romance, which began when the two met en route to Brazil. There were five children, one losing his life last year at Guadalcanal. One other is in the Navy and another plans to join the Army.

REPRODUCTION AL SAYS: MAKE LETTERS PROPER HEIGHT
LIBRARY NEWS

The following books have been cataloged and are now available for charging out from the Library:

- Engineering Encyclopedia. Vols. 1 and 2. Edited by Franklin D. Jones.
- Bernhard, R. K. Mechanical Vibrations.
- Bridgman, P. W. The Nature of Thermodynamics.
- Hogben, L. Mathematics For The Million.
- Humphreys, W. J. Ways Of The Weather.

LIFE AT THE LABORATORY

MISCELLANY: Lieut. (j.g.) Arthur Carter, formerly of the Tank, was a recent visitor, as was J. R. Vensel, AERL test pilot; William H. Swann, of AERL, and Carl J. Wenzinger, Jr., member of the armed services, to see his father. . . . Helen Wall, AID, was called home in Aspen upon the death of her uncle. . . . Charles Welch, AID, has left to study medicine at Tufts College. . . . Cecil Burtnet, Model Finishing Shop, and his wife celebrated their fifth wedding anniversary Friday night at the Sigma Club dance in Newport News. . . . Harry Barritt, West Sheetmetal, and his better half also observed their fifth anniversary recently. . . . Emma McSmith, supervisor of char women, is trying to live up to the title of grandmother. Her son, Duane McSmith, an instructor at McKellar Field, Tenn., is the father of a new daughter. . . . Charles Brandes, Planning and Procurement, is the father of a baby daughter, Beverly. . . . FRM is looking forward to a pleasant evening when they and other Lab members meet tonight at the Chamberlin Country Club for a Halloween dance. . . . Martha Willis, Apprentice Administration, plans to go to Rhode Island next week and bring home a "sparkler". . . . The Industrial USO has offered its facilities for bridge tournaments among LMAL personnel. Are you interested? An invitation is extended to all modelmakers to attend the wedding of Leonard Purdy, formerly of LMAL, and now in the Army Air Force, on Nov. 5 at 5:30 p.m. at the Park View Christian Church in Portsmouth.

LET'S HAVE A PARTY: Anna D. Cumming is entertaining the Apprentice Administration at a Halloween party tonight (Oct. 30). Tom Hulcher plans to go in masquerade as "Little Bo Peep". . . . Personnel's party at Oak (okay) Point last Saturday was a howling success, with most of the howling being done by "Pat" Patterson, Lib Scott, Doris Bloxom, F.L.M. Storm's tired tenor, and Dr. W. A. Aery's barrel house bass. The card game of "chance" was enjoyed by many; however, Nellie Miller was the only member of the fairer sex brave enough to "take a chance". Highlight of the evening was Mary Jean Thompson eating her first oyster. . . . Helen Wheary and Lenore Hulcher entertained Friday night at the latter's home with a buffet supper and linen shower for Mary Jean Thompson. . . . Walter Hixon served a buffet supper at his home last week for the Apprentice Administration. Little Leigh Lewis had a good time romping with Frank Penland's and Hixon's children. . . . The Duplicating Office entertained with a birthday party for Florine Salone on Oct. 21 at the home of Thelma L. Webster in Copeland Park. . . . Engineering Section frolicked the night of Oct. 22 at the Chamberlin Country Club. . . . The Stability and Control Division's picnic at Oak Point on Oct. 24 proved a success. With Marvin Pitkin acting as master-of-ceremonies, the party began with a series of relay races. AWT won the two-legged race and received two back scratchers as prizes. In the peanut race, Free Flight Tunnel won a box of peanuts, and also won a warm and hearty handshake from the committee by emerging first in the egg relay. AWT was also the winner in the tug-of-war. When the day's final scores were tabulated, AWT was declared the winner and was awarded a plaque. Joe Shortal and his wife won the treasure hunt.

HONEYMOON: Kay Kelsey, AWT, and Duke Wetherington, of Raleigh, N.C., will be at home at 71D Recoughtan Court after a wedding trip. They were married Oct. 21 in First Baptist Church, Newport News. Mary Jean Thompson, Personnel, was matron-of-honor, and LaVerne Priddy and Lib Garner, AWT, were bridesmaids.
STABILITY DIVISION FORMS BOWLING LEAGUE

Although the fire which destroyed the NACA bowling alleys forced abandonment of the NACA bowling loops when it was found impossible to obtain sufficient alleys at another recreation center, the undaunted Stability Division has organized a league comprised of seven teams from its various sections.

The league has arranged to bowl on Friday nights at the Sports Bowl north of Newport News. The first games were bowled Friday, Oct. 29, with the AWT's "Wreckers" meeting Free Flight's "PH-F-F-T's"; the Spin Tunnel "Tumblers" tangling with Stability's "Soule's Stable Boys", and Free Flight's "Genius, Inc.," sitting one out with a bye.

Participants in the first games all agreed that they enjoyed the fun and offered the suggestion that other sections or divisions at the Laboratory form their own leagues as a means of increased entertainment.

GUARD your lips
What you do here
What you see here
What you say here
When you leave here
Let it stay here

INDUSTRIAL USO: This week's program includes: Monday--7 to 8 p.m., sewing class; 8 p.m., lecture on "Latin American Youth Looks Forward", by Eula Kennedy Long; Tuesday: American Legion meeting; Wednesday: 6 to 8 p.m., ball room dancing instruction; 12 midnight to 3 a.m., activities for swing shift workers; Thursday: Jam session; Friday: 7 to 8 p.m., boxing instruction by Gus Doughan, Purdue's 1942 boxing team captain.

H. L. Mencken: "We must be willing to pay a price for freedom, for no price that is ever asked for it is half the cost of doing without it".

JAMES A. GARFIELD: "...for the security of the future I would do everything."

COMMUNITY CHEST

THERE'S NO ARGUMENT!

SAFETY IS WORTH A LOT
BUT
IT DOESN'T COST A CENT
FRANK KNOX PRAISES NACA CONCERT GROUP

The Cooperative Concert Association, which annually brings to the Newport News High School auditorium a diversified group of artists, will conduct its annual membership campaign this week, beginning on Tuesday, Nov. 9, and continuing through Saturday, Nov. 13.

NACA employees wishing to purchase a membership may communicate with Virginia Cullen, PRT, telephone 234. Her home phone number is Newport News 2-7541. Memberships are $4.40 for adults and $2.20 for students. All enlisted men are admitted to the concerts free.

The membership is guaranteed three concerts during the season; and the artists appearing are named at the conclusion of the campaign, since the amount of money on hand necessarily determines the artists to be chosen. The membership is obtained in the one-week drive, at the conclusion of which the membership list is closed and no one may join until the following season. No single admissions are sold for any one concert.

This will be the 13th season of the community concerts. Mrs. L. C. Branch is president and Mrs. E. K. Phillips, secretary.

This is considered an outstanding opportunity for NACA personnel to enjoy the talents of well known artists. As Miss Cullen says, "the more members, the more concerts".

NAVY CHIEF CITES IMPORTANCE OF RESEARCH IN WAR EFFORT

Col. Frank Knox, Secretary of the Navy, complimented the personnel and the work of the NACA and told employees of the Langley Laboratory, in a speech here Thursday afternoon, that "you should feel pride in the part you are playing in this war" and expressed confidence "that if you stay on your jobs, American aircraft should never be excelled by those of other nations".

Must Preserve Our Way Of Life

Declaring that this nation is engaged in the most crucial contest since its birth--fighting to preserve the liberties and freedoms for which the pioneers gave their lives--he emphasized that we of this generation have the responsibility of seeing that our way of living is not lost. He pictured the men and women of LMAL as occupying a critical position--"not less critical than a battalion atop a mountain peak in Italy, driving the Germans to defeat".

Secretary Knox, who was addressing approximately 1,500 laboratory employees in the Structures Research building, commented that he had recently returned from a quick inspection tour of two war fronts--the European and African.

"There I saw with my own eyes some of the fruits of your labors", he said, declaring that the transformation of America's production and research facilities from a peacetime to a wartime tempo was "nothing less than a miracle."

Describes NACA's Results

Pointing out that he came here "to see at first hand a part of the strange equipment and to know something about the men and women who constitute the great research staff,

THANKS FOR YOUR COOPERATION, SAYS REID

E. J. E. Reid, Engineer-in-Charge, issued the following statement in connection with the visit by Secretary Knox:

"I am sorry that while you were gathered together to hear Secretary Knox, I did not take that opportunity to express my appreciation to everyone of the Laboratory staff for the splendid spirit of cooperation in carrying out the many details of planning, preparing, and executing the program for the visit of Secretary Knox and his party. It is difficult to express in words my appreciation for the splendid spirit of cooperation which has always existed at the Laboratory and as especially exemplified on this occasion."
FRANK KNOX PRAISES NACA (From page 1)

Knox described the NACA's results as "new ideas and the technical data required to apply these new ideas to make our airplanes fly faster, higher and farther."

"New ideas are weapons of immense significance. You men and women working here far from the sound of drums and guns, working in your civilian capacity in accordance with your highly specialized skills, are winning your part of this war; the battle of research. This war is being fought in the laboratories as well as on the battlefields," he said. "Cannot Relax Our Efforts"

Pointing out that what the Japs and Nazis had devised to destroy us, we have met and countered, Secretary Knox mentioned that we are on the offensive and cannot relax our efforts. The fact that the enemy will redouble his desperate efforts to devise special planes and weapons to defend his vital, the Navy official said, is "a challenge to American science and industry. Our fighting airmen must never be handicapped in their dangerous task of controlling the air over enemy areas of land and sea."

Cites Dive Bombing Development

As an example of Naval aviation pioneering in which the Navy and the NACA worked together to produce a new idea and a new weapon, the dive bomber, Secretary Knox explained that this nation was the first to develop aircraft capable of vertical dive bombing. That was made possible by the prosecution of a program of scientific research by the NACA. It was your organization here at Langley Field that for the first time in the history of aeronautics, by means of novel flight research instruments and technique, determined the pressures over the lifting and control surfaces of airplanes, and how those forces changed in going through the pull-out at the end of a vertical dive.

Commends Employees' Contributions

"There is no question but that each and every one of you is making at least as great a contribution towards winning the war as if you were personally shooting Japs, because the basic things that give the Navy's combat aircraft their unquestioned excellence come directly from your own continuing hard work."

Knox assured the employees that the Army as well as the Navy is depending on the NACA to provide solutions for the technical problems incident to the requirements of a rapidly advancing technology. He praised not only LMAL, but the Ames Laboratory and the Aircraft Engine Research Laboratory, and described NACA's leadership as "of the highest competence."

LIBRARY NEWS

The following new books have been received in the Library and are available for charging out for a four-day loan period. These books must be called for and returned personally by staff members.

Oxygen Sense. Issued by Training Division, Bureau of Aeronautics U.S.N. 1943
Air Masses and Fronts. Aerology Series No. 4. Prepared by Training Division, Bureau of Aeronautics, U.S.N.
Handbook of Chemistry and Physics. 27th ed. 1943-1944.
Proceedings of the Second Hydraulics Conference, June 1-4, 1942.
Bernhard, R. K. Mechanical Vibrations.
Humphreys, W. J. Ways of the Weather.
Hogben, Lancelot. Mathematics for the Millions.
Neubecker, William. Short Patterns, Kinks and Quick Methods for Sheet Metal Workers.
Rosenholtz and Oesterle. Elements of Ferrous Metallurgy.
Dickson, L. E. New First Course in the Theory of Equations.
Dushman, Saul. Elements of Quantum Mechanics.
Franklin, Philip. Treatise on Advanced Calculus.
Keenan, J. H. Thermodynamics.
Kron, Gabriel. Short Course in Tensor Analysis.
Lindsay, R. B. Introduction to Physical Statistics.

See Page 3 for scenes taken by LMAL photographers of visit by Secretary Knox and party.
In a game filled with long runs and scoring passes, an inspired Tank team upset Structures Research, 37 to 20, in an NACA touch football league game last Sunday.

Hacskaylo quickly put Tank in the lead when he ran Baritone's kickoff for a touchdown. Hacskaylo followed with another touchdown on a right end sweep, and a pass to Freihofner accounted for the third. After a scoreless second quarter, Bruce Amole started the scoring again by snagging a toss in the end zone. Tank scored twice again, once on a short pass to Walter and the last on a toss to Freihofner. Tank made one conversion.

Structures' first score came in the fourth period on a pass to Boughan. After Bartone carried Neff's pass to the one-yard-line, Boughan tallied again on a pass. Boughan also accounted for the third. After a scoreless second quarter, Bruce Amole started the scoring again by snagging a toss in the end zone. Tank scored twice again, once on a short pass to Walter and the last on a toss to Freihofner. Tank made one conversion.

In a hotly-disputed game, FRM came out on the long end of a 3 to 2 score. West Area Shops scored in the second quarter when Reeder fumbled a pass behind his goal line. The dispute arose as a result of an attempted field goal by FRM in the final quarter. A formal protest has been filed with the mediation board and a team captain meeting will be held to decide the issue.

Full Scale forfeited to 16-foot Tunnel.

The schedule: Nov. 7--AFR vs. 8-foot and PRT vs. Tank at Hampton at 11 a.m.; West Area Shops vs. Full Scale at Wilson at 11 a.m.; Engineering vs.

VACATION RHAPSODY

RETURN OF THE NATIVES:
Gladys Fulton, ALD, from home in Washington; Jewell Whatley, ALD, from Alabama; Bob Souter, ALD, from Washington; Hal Sweberg, Full Scale, from New York; Mrs. Pat Anderson, from a week-end with her daughter at Madison College, Harrisonburg; Dave Malorey, 16-foot Tunnel, from home in Farmville, Wilhelmina Kroll, George Heimerl, Harriet Tindal, Structures, and Levy Tindal, Construction, from Washington; Jim La Hatte, Full Scale, from home in Washington; Larry Fogarty, 19-foot Tunnel, from Mortana and points east; Blake Corson, 16-foot, from a hunting trip near Buckingham; Jimmy Mayo, Engineering Section, from West Point.

THOSE STILL AWAY: Sig Sjoberg and Clo Wood, FRM, in Philly for the week-end; Betty Ludwig, FRM, in Tennessee; Jack Erwin, AFR, Owen Deters, 19-foot Tunnel, and Bernard Klawans, FRM, in Washington for the week-end; Hazel Philby, 19-foot Tunnel, in Comfort, N.C.; Jack Paulson, Free Flight, at Greensboro College, where he is attending the fall prom as guest of Hilda Thompson, formerly of FRM.

REPRODUCTION AL SAYS:

"MAKE LINES OF UNIFORM WEIGHT"
HOUSING PROJECT
Another group of unfurnished apartments will become available to war workers in this area on December 1. They are located at Thirty-sixth street and Marshall avenue in Newport News and have been built under an FHA grant by the Seven Oaks corporation.

The entire project has over two hundred units, 44 of which will be completed by December 1. The other units are expected to follow in groups of the same number every fifteen days.

The construction is of brick and cinder block covered with cement topped by slate roofs. The individual buildings will contain from four to fourteen units. Each unit of four buildings will face inward on a grass court and play area.

Each apartment will cover two floors. There are five rooms and bath in each apartment. A living room, dining room, and kitchen are located on the first floor, with two bedrooms and a bath upstairs.

Electric refrigerators and gas stoves are furnished and the apartments are heated by a coal heating unit, with a blower, both of which are housed in a small furnace room.

The monthly rental is $45.

The apartments are available to immigrant workers and workers whose present housing conditions are not suitable. Before an application can be accepted, applicants must present a statement of eligibility, which can be obtained by Laboratory employees from E. McKinley Hutton at the Personnel office.

Mr. Hutton states that although the apartments will not be ready for occupancy until December 1, they are already being assigned in advance.

TELEPHONES: Additions and changes in the directory include: Hydrodynamics--Chief, Starr Truscott, 392; Tank No. 1, Head, Jack Parkinson, 393; Tank No. 2, Head, John R. Dawson, 394; and Office, 213.

Life At The Laboratory
MISCELLANY: Herbert R. Pass, formerly of Full Scale and Flight Research, writes from the west coast that he has recovered from his recent mountain climbing injuries and is now going in for yogi....Paul (Woman Hater) Johnson, 16-foot Tunnel, is reported to be receiving perfumed letters these days....ICL folks are wondering if the "feud" between Gloria Nestor and Sign Painter Johnson is because she is so often without shoes while at work....Reproduction's three illustrators, Marge Patterson, Mary Thorne Tyson, and Dot Severance, welcome Winifred Diller of Decatur, Ill., as their fourth artist....Ray Schaeffer, Blueprint Room, is back after three weeks in New York for an operation....

LOVE AT FIRST SIGHT: Henry Suydam, Tank, will marry Tony Williams of New York on Sadie Hawkins Day, Nov. 6....Fern Renner, East Area Computing, married Sergt. Robert Lester Jackson on Oct. 22 at the Hampton Presbyterian Church....Jack Golden, formerly of Free Flight and now on the west coast, was married in Boston on Oct. 31....Frances Bohannon, Reproduction, and Bob Liddell, AWT, were married Monday night, Nov. 1, at St. John's Episcopal Church in Hampton. Betty (Library) Bohannon was maid-of-honor.

BUNDLES FROM HEAVEN: Connie Parker, formerly of Apprentice Administration, has a new daughter, Rosalind Cooke Parker....Pete Korycinski, 16-foot Tunnel, is the father of a 6 pound, 6 ounce "jeep size" daughter, Jane Victoria....Cadwell Johnson, Engineering, was passing out cigars (a whole box of Phillies) Tuesday morning in honor of his brand new daughter.

VISITORS: A number of visitors were at the Laboratory during the past few days. Among them were John F. Victory, NACA Secretary; E. H. Chamberlin, Assistant Secretary; Ralph E. Ulmer, M. B. Ames, Jr., and Leland D. Smull, of the Washington Office; K. Benson, E. G. Gulick, and A. H. Heldenreich, and B. A. Hunsaker of AERI; B. T. (Red Hulse), Curtiss-Wright test pilot; Grover Loening, of the WPB, chairman of the NACA's helicopter sub-committee; and Eastman N. Jacobs II of Purdue University to see Mr. Jacobs.

MODEL CLUB MEETS TO SHOW PICTURES
The Brain Busters Model Club will meet at the Industrial USO in Hampton Sunday, Nov. 7. Movies of the Hydro contest conducted recently on a lake near Langley Field will be shown.

A gas model contest will be sponsored by the club on Nov. 21, weather permitting, at the LaSalle Avenue field. There will be two classes, A and B combined and C. Prizes will include a trophy for the highest average of three flights, cash, and merchandise. The entry fee will be 50 cents paid in advance or 75 cents at the scene of the contest. Entry fees should be paid to Dick Sladek or Frank Parmenter.

The club sponsored a hand launch glider contest last Sunday, with Dick Everett coming out on top. He had a total time of 8 minutes and 39 seconds for three flights.

George Sadler was second, his total time being 6 minutes and 50 seconds; Ben Cleveland was third, with a total of 6 minutes and 12 seconds, and Cadwell Johnson fourth with 4 minutes and 51.2 seconds.

PIOMAIRS: First wind tunnel 12 inches square and a simple in America, built by the balance for measuring air Wright Brothers, had a throat forces on a model.
CAFETERIA LOSES 800 SPOONS IN SIX MONTHS

This is the story of the NACA Cafeteria's missing silverware. The story began several months ago—or we might even say the day Walter Reiser's food emporium first opened shop. But what Mr. Reiser would like to know is: will it ever end?

Just about every day, according to Mr. Reiser, a few pieces of silverware disappear from the Cafeteria. In less than six months, 800 tea spoons vanished. What's worrying Mr. Reiser is the realization that it is virtually impossible nowadays to replace the silverware.

So Mr. Reiser would like for the Laboratory employees to hunt around in their offices, in the far recesses of desk drawers, anywhere that might be harboring a piece of Cafeteria silverware that was probably borrowed temporarily, tucked away, and forgotten in the rush, and return it; and for that he offers thanks.

MISSING: The following electric drills, listed according to inventory numbers and serial numbers, are missing from the East Area Machine Shop. It is requested that all sections check this list and if any of these drills are in their possession, please communicate with E. J. Shave, East Area Machine Shop, telephone 383.

- Inv. No. 4496, Ser. No. 957292 M; Inv. 10268, Ser. 12601; Inv. 10267, Ser. 12602; Inv. 9139, Ser. 139916; Inv. 16165, Ser. 339645; Inv. 13726, Ser. 5820; Inv. 10268, Ser. 12603; Inv. 13970, Ser. 386759; Inv. 15941, Ser. 1608; Inv. 16351, Ser. 611282.

SAFETY SABOTEURS LEAVE FILE DOORS OPEN

KEEP CABINETS CLOSED WHEN NOT IN USE
COLLECT TOYS AS YULE GIFTS

Leigh Lewis, Apprentice Administration, and Bill Poyn-teress, West Machine Shop, have been appointed to act as a committee to obtain used toys which will be repaired and made like new for distribution to children at Christmas time.

The committee was named by the Industrial USO on North King Street in Hampton and the persons who frequent the center propose to put the toys in shape during their leisure time.

Any one at LMAL wishing to donate old toys to the cause may communicate with either of the committee members or have their contributions deposited at the Industrial USO.

BRIDGE CHI#: The group which met last Monday night at the Industrial USO Club in Hampton to form an NACA Contract Bridge Club decided to meet every Monday at 7:30 p.m.

TRAINING ENGINEERS SUBJECT OF ARTICLE

In the October issue of The Journal of the Royal Aeronautical Society, published in England, there is an article beginning on page 318 entitled "The Education and Training of Aeronautical Engineers", in which some interesting figures regarding such training in America is given. Commander VAC Leaders

The article, which concerns a meeting held last June in England by the Royal Aeronautical Society, paid tribute to the "tremendous work that has been done during the last few years in technical education and especially aeronautical engineering in the universities of America and the work of such men"...as Dr. Jerome C. Runnaker, Chairman of the NACA; Dr. Edward P. Warner, former Chairman; Dr. George W. Lewis, Director of Aeronautical Research, and others.

LAB'S BOND PERCENTAGE SHOWS RISE

The Laboratory's percentage allotment for war bonds under the pay roll savings plan went up as a result of the Third War Loan drive, but not according to expectations, the October report shows. The percentage allotted during last month was 13.0% as compared with 11.7%, the figures for the month preceding the far-reaching September campaign.

The percentage of employees participating dropped lower than it has been for several months, 94.5%, almost two points below August's 96.37.

There were 2,263 employees on roll in October and 2,140 subscribed to the savings plan. Gross pay roll was $147,598 and the amount allotted was $57,489.22, making an average allotment of $26.86.

LMAL CHORUS MEETS

On Monday Nov. 15

To start the week off right, the LMAL Chorus will meet for rehearsal on Monday, November 15, 1943, at 7:30 p.m. at the Academy Street USO Club in Hampton.

This is the first meeting in several weeks, during which time the director has been contacting members with a view to setting a night suitable to all. Please note change to Monday night. All members and others interested are urged to be on hand promptly.
WAR TO EXPAND AIRCRAFT USE (From page 1)

Throw it back at us. By that time, the changes are good that it would be surpassed by further American developments and be obsolete insofar as America was concerned."

Pointing out that "true progress must be based on new knowledge of fundamentals in any field," the article discusses the German D0-X, a 12-engined "monstrosity" which flew to this country to the tune of much publicity and ended up as a sideshow attraction, spectators paying a dime a head to look it over. This "freak" was one result of Germany's policy of giving contracts to industry simply to make bigger and better planes. The D0-X had a net propulsive efficiency of 37 per cent as compared to 75 per cent for contemporary, scientifically-designed planes, the article said.

When Hitler was making his original conquest, that of Germany itself, Nazi officials admitted that America was ten years ahead of the Reich in aeronautical development, the article said. "Germany caught up to us in less than ten years", however, through an accelerated program, but failed to go ahead because their system of "dictatorship" was stifling scientific initiative.

According to the article, the NACA's buildings include some 30 wind tunnels, covering around 400 acres and with approximately 4,500 employees.

Although the NACA "is not wasting its time with postwar problems at present", since war demands cannot wait, postwar problems are not forgotten, the article mentioned. Nearly all of the Committee's war work will be applicable to the improvement of the efficiency and safety of civil and commercial aircraft after the war."

The magazine quotes NACA officials as voicing the hope that the "national aviation policy, after the war will be such as to keep at least a nucleus of the aircraft industry in a healthy condition." The article mentions a part of the Committee's 1924 report which noted that "it is safe to say that (in future warfare) there will be individual and group fighting in the air; there will be aircraft attacking troops on the ground, both with bombs dropped from great heights and with machine guns mounted on low-flying aircraft protected by armor; there will be bombing of large cities, military and manufacturing centers, and routes of communication and transportation."

It was in connection with this prophecy that the article declared that the NACA "has been hiding its light under a bushel."
VACATION RHAPSODY

RETURN OF THE NATIVES:
Kaye Fetzer, 8-foot Tunnel, from home in Pennsylvania;
Barbara Allan Moss, 16-foot Tunnel, from Washington; Shirley
Muxter, 16-foot Tunnel, from home in Richmond; Ferne
Driver, 10-foot Tunnel, from home in Harrisonburg; Doda Mac
Smith, East Area Computing, from Roanoke; Julia Wood-
bridge, AID, from home in Williamsburg; Hazel Philpaw,
10-foot Tunnel, from home in Comfort, V.C.; Dot Estes, 19-
foot Tunnel, from Norfolk; Ralph Schrenel, Engineering
Section, from home in New Jersey, where he visited his par-
ents and also, it is rumored, a feminine interest;

PEOPLE STILL AWAY: Joe
Burke, Personnel, and his
wife, Pearl, at home on
the Eastern Shore and Joe's
home at Faverhill, near Bos-
ton; W. Phillips Dierlat, 8-
foot Tunnel, at home in East
Faddam, Conn.

SUGGESTION Staff members
should clip the air raid
instructi on chart below and
keep it for future reference.

MEETING: The VAC JUNIORS
Meeting Club meets Sunday,
Nov. 21, at the Masonic Temple
on North King Street in Hamp-
ton, Silas Carney, Secretary,
announced.

FOUND: A key, on the roof be-
tween the Engineering Section
and Machine Shop Building and
the Spin Tunnel. On one side
is the number 1700. The owner
may apply at the Bulletin
Office.

THE CLASS in Appreciation
and Prediction of Flying Qual-
ities, taught by W. F. Phill-
ips, will meet at 7 p.m.
Tuesday, Nov. 16, instead of
the usual time at 7:30.

HARVEST MOON: Virginia Tucker,
Kitty Joynor, and Mary Jones
are selling tickets to the
Harvest Moon Dance to be held
Friday, Nov. 19, from 9 to 12
midnight at the St. John's
Episcopal Church Parish House.

LMAL
AIR RAID ALARM SIGNALS

ALL ACTIVITIES WILL BE NOTIFIED BY TELEPHONE DURING FIRST
PERIOD IF NACA IS NOT TO PARTICIPATE IN PRACTICE ALERT

1 TWO MINUTE STRAIGHT BLAST ON SIREN

PRELIMINARY WARNING
FLASHERS, DEGDOM, WILL GO DOWH
TUNNEL, OPEN SWITCHES AND GENERALLY SECURE EQUIPMENT. OTHER PERSONS WILL
REMAIN AT THEIR POSTS. LOCKING UP.
TRAFFIC STOP. TIME AT PREMISES IS FOR PREPAREDNESS FOR AIR
RAID SHELTER, IF RAID IS AT NIGHT ALL
PERSONNEL WILL BE CALLED TO
TRAFFIC WILL CONTINUE TO MOVE.

2 TWO MINUTE WARNING ON SIREN OR SHORT BLASTS

RAID IMMINENT - ENEMY
PLANES PRACTICALLY OVERHEAD.
PERSONAL WILL PROCEED TO DESIGNATED
AIR RAID SHELTER. FOLLOWING
INSTRUCTIONS OF WATCHDogs.
ALL TRAFFIC, ROCKETI VIAGULAR WILL STOP.

3 TWO MINUTE STRAIGHT BLAST ON SIREN

ENEMY PLANES HAVE GONE BUT
DANGER OF THEIR RETURN
STILL EXISTS.
PERSONNEL WILL LEAVE SHELTERS
AND RETURN TO ACTIVITIES.

LMAL OPERATIONS SAFETY COMMITTEE
STRUCTURES DROPS FRM TO SECOND PLACE

Structures Research beat FRM, 13 to 6, to mar their unbeaten record in the NACA football league. Flight Research scored in the second quarter on a 40-yard off tackle smash by Matthews. FRM's attempted conversion failed and they led, 6 to 0, at the half. In the third quarter was blocked and Structures recovered on FRM's 15. On a sleeper play, Neff passed to Houbolt in the end zone for a touchdown; Barton's drop kick was good for an extra point. Ochiltree in the fourth quarter carried Barton's long pass over for the final score.

A surprisingly strong Tank team defeated PRT, 37 to 14. After a blocked kick, Tank scored first on a short pass from Zeck to Amole. Jarvis snagged a long pass from Zeck for the second tally. PRT counters with a 40-yard touchdown toss from Mastrocola to Marino. The kick for extra point was good. Tank increased its lead in the second quarter when Zeck made good on a long pass to Walter. PRT scored on a 15-yard pass from Mastrocola to Dekoster and Mastrocola converted the half ended. In the third quarter a pass carried the ball to the 2 and Pascakayo went over for Tank. In the final quarter Pascakayo skirted right end for another score and passed to Jarvis for the extra point. For the last pass from Zeck, points, Vern Ward being tackled behind his goal line after intercepting an Engineering pass. Both teams failed to make the most of several scoring opportunities. Cartabiano and Korczynski played outstanding for the losers in the backfield, while Turner turned in a nice line game. Nutter at left guard was a star for Engineering's line, while Brown's passing was a constant threat.

The schedule: Nov. 14--16-foot vs. FRM; and Tank vs. AFR at Hampton at 11 a.m.; Structures vs. 8-foot at Wilson at 11 a.m.; West Area Shops vs. PRT at Wilson at 1 p.m.; Engineering vs. Full Scale at Hampton at 1 p.m. Nov. 21--West Area Shops vs. 8-foot; and Full Scale vs. AFR at Hampton at 11 a.m.; Structures vs. Engineering Section at Wilson at 11 a.m.; 16-foot vs. Tank at Hampton at 1 p.m.; PRT vs. FRM at Wilson at 1 p.m.

The standings:

<table>
<thead>
<tr>
<th>Team</th>
<th>Won</th>
<th>Lost</th>
<th>Pct</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engr. Section</td>
<td>4</td>
<td>1</td>
<td>.800</td>
</tr>
<tr>
<td>FRM</td>
<td>3</td>
<td>1</td>
<td>.750</td>
</tr>
<tr>
<td>AFR</td>
<td>3</td>
<td>2</td>
<td>.600</td>
</tr>
<tr>
<td>Tank</td>
<td>3</td>
<td>2</td>
<td>.600</td>
</tr>
<tr>
<td>Structures</td>
<td>3</td>
<td>2</td>
<td>.600</td>
</tr>
<tr>
<td>8' Tunnel</td>
<td>2</td>
<td>2</td>
<td>.500</td>
</tr>
<tr>
<td>PRT</td>
<td>2</td>
<td>3</td>
<td>.400</td>
</tr>
<tr>
<td>16' Tunnel</td>
<td>2</td>
<td>3</td>
<td>.400</td>
</tr>
<tr>
<td>Full Scale</td>
<td>2</td>
<td>3</td>
<td>.400</td>
</tr>
<tr>
<td>W. Area Shops</td>
<td>0</td>
<td>5</td>
<td>.000</td>
</tr>
</tbody>
</table>

Training Engineers

(From page 1)

"Broadly speaking", the article says, "there is no doubt that America has been for some years more alive to the necessity of technical education. In the immediate pre-war years some 14,000 students graduated annually from engineering schools and American universities, of which ten per cent specialized on aircraft engineering". The article added that in 1942 over 1,400 took aeronautical degrees in America as compared with only 111 in England, including the Higher National Certificate students.

Mission Tours America

The statements concerning America were made by Sir Roy Fedden, a leading figure in British aeronautics, who had accompanied a British mission on a tour of American universities and saw the work that is going on in regard to the training of aeronautical engineers. He pointed out that, while realizing the shortage of manpower in England, and how much smaller is the population, nevertheless he submitted that aviation is such a vital matter and is going to play such an important part in peace negotiations and for the post-war years that it is absolutely necessary that England should have a proper nucleus of trained engineers.

REPRODUCTION GROUP

NOW IN ENGINE LAB

The Photo Lab, Reproduction, Blue Print Room, and Photostat have moved from their old quarters in the Technical Service and the Administration Buildings to the second floor of the remodeled Engine Research Laboratory Building, on the north side. The ICI remains in the north wing of the Technical Service Building's second floor.
ANNOUNCE FIGURES ON REGISTERANTS

There are at IMAI 960 active Selective Service registrants from 40 states and the District of Columbia; and 226 overage registrants, men between 38 and 45, from ten states and the District of Columbia, according to a recent survey.

The Active

The active registrants are distributed as follows: Virginia, 514; New York, 78; Pennsylvania, 36; North Carolina, 30; Massachusetts, 23; Georgia, 21; Illinois and Ohio, 20 each; West Va., 19; Michigan, 17; Indiana, 15; District of Columbia, 14; Iowa, 12; California and South Carolina, 11 each; Maryland and New Jersey, 10 each; Connecticut, Florida, and Rhode Island, 8 each; Louisiana and Nebraska, 5 each; Alabama, Kansas, Mississippi, and Tennessee, 4 each; Idaho, Minnesota, and Washington, 3 each; Maine, Missouri, New Hampshire, Utah, and Vermont, 2 each; Arkansas, Colorado, New Mexico, and Oklahoma, 1 each.

The Overage

The overage group hails from the following places: Virginia, 293; N. Carolina, 8; W. Virginia, 4; New York, Ohio and District of Columbia, 2 each; Delaware, Florida, Wisconsin, Pennsylvania, and Missouri, 1 each.

UNCLAIMED: Indie Atkins, Files, has some unclaimed items which have been found over a long period of time and turned over to her. They include two silver rings, one with red oval stone and the other with a square crystal set with insigia in the center; a pair of rimless glasses in a black case, keys, and a black Estherbrook fountain pen, the latter having been found last week.

COMMUNITY CHEST: A report shows that the Community Chest and War Fund drive at the Laboratory netted $3,478.50, which included $3,405.50 given in cash and $73 in pledges.

Life At The Laboratory

LET'S HAVE A PARTY: Pay Roll had a surprise "housewarming" at Emily Bagwell's Nov. 2 for Helen McMichael, who has moved into a new home. Guests enjoyed laughing at Christine Reynolds and Marilyn Lawler trying while blindfolded to feed each other bananas. A miniature house was built and filled with presents for Helen. The NACA Employment Office held a lunch-period party Nov. 8 for Sara Levine, Civil Service, who is joining her husband in Staunton. The Tank will have another one of its famous parties today (Nov. 13) at Oak Lodge. West Area Machine Shop employees had a big party at Oak Point last Saturday, starting festivities off with a buffet supper of hamburgers, hot dogs, buttered peas, potatoes, cole slaw and sliced tomatoes, with homemade pie for dessert. Gene Hicks furnished his sound system, which is available to other NACA parties, for dancing. The second shift arrived near midnight and a late supper was served. Our Machine Shop correspondent is wondering what Gene Hicks and Will Taub were doing in a tree overhanging the creek, at 10 o'clock; how 6-foot Karl Lambrroff managed to fit into that 4-foot dinghy he was paddling around in; and now Jack Kinzer manages to keep the girls so happy? Newlyweds David McCraw and the former "Chick" Singleton joined the merry-makers, who numbered about 80. Since the party was such a success, the shop plans a New Year's Eve gathering.

WINCHESTER: Helen Dana, 1 Purchase, is at the Elizabeth Buxton Hospital in Newport News, recuperating from a recent appendectomy. Effa Campbell, 1 Purchase, has departed the lab to be with her husband, who has been transferred to another transport. Audrey Campbell, Editorial, is back at work following a recent illness at her home in Charlotteville. Jack Willis, Tank, recently bid au revoi to the lab to join Uncle Sam's fleet. It is rumored that Ralph Avakian, Jerry Teplitz, Owen Deters, and Larry Fogarty, 19-foot Tunnel, are enrolling in a correspondence school law course. Carl J. Wenzinger, former head of the 19-foot Tunnel Section, visited the lab recently in his new Navy uniform. He is assigned to the Bureau of Aeronautics. Other recent visitors included Walter S. Diehl, also of the Bureau Aeronautics, and Charles F. Helms, Washington Office. Pay Byrne, an apprentice seaman at Bainbridge Naval Training Station, Md., was greeting old friends in the Instrument Service Section the other day. Elizabeth Budde, Pay Roll, has returned after extended sick leave. Free Fighters are planning to bar M. D. McKenney from the weekly football pool. He has already cleaned out half the staff. Howard Benny Miller, who left here Sept. 24, writes that he is now Private Miller, at the 301st Training Wing, Greensboro, N.C. Engineers who use the library from now on will like the botanical atmosphere. The girls chipped in and bought some ferns and snake plants to make their surroundings more home-like. Joanna Nartoshesky, messenger, is recuperating at home after an appendectomy at Elizabeth Buxton Hospital.

THE DUCK'S BEST FRIENDS: J. Norwood Evans, the Personnel Section's self-styled duck-shooting artist, went on a recent duck hunting trip to Back Bay with William Herrenstein, office of the Engineer-in-Charge; Norman Smith, 8-foot Tunnel, Jack Willis, formerly of the Tank; Lloyd Fisher, Tank, and Kenneth Cummings, Hampton attorney. When asked how many ducks the party brought home, Norwood's answer was that the weather, in general, was very bad for hunters but exceptionally good for the ducks.
1942 Injury Rates By Industry

**FREQUENCY**

<table>
<thead>
<tr>
<th>Industry</th>
<th>Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Tobacco</td>
<td>5.32</td>
</tr>
<tr>
<td>Glass</td>
<td>7.01</td>
</tr>
<tr>
<td>Steel</td>
<td>7.37</td>
</tr>
<tr>
<td>Cement</td>
<td>7.59</td>
</tr>
<tr>
<td>Automobile</td>
<td>7.72</td>
</tr>
<tr>
<td>Aircraft Mfg.</td>
<td>9.53</td>
</tr>
<tr>
<td>Chemical</td>
<td>9.90</td>
</tr>
<tr>
<td>Rubber</td>
<td>10.06</td>
</tr>
<tr>
<td>Laundry</td>
<td>10.27</td>
</tr>
<tr>
<td>Sheet Metal</td>
<td>10.77</td>
</tr>
<tr>
<td>Machinery</td>
<td>11.01</td>
</tr>
<tr>
<td>Petroleum</td>
<td>11.72</td>
</tr>
<tr>
<td>Textile</td>
<td>11.95</td>
</tr>
<tr>
<td>Air Transport</td>
<td>12.93</td>
</tr>
<tr>
<td>Public Utility</td>
<td>13.20</td>
</tr>
<tr>
<td>Printing &amp; Pub.</td>
<td>14.10</td>
</tr>
<tr>
<td>Non-Ferrous Metals</td>
<td>14.76</td>
</tr>
<tr>
<td>All Industries</td>
<td>14.85</td>
</tr>
<tr>
<td>Transit</td>
<td>17.02</td>
</tr>
<tr>
<td>Construction</td>
<td>17.36</td>
</tr>
<tr>
<td>Food</td>
<td>18.65</td>
</tr>
<tr>
<td>Metal Products</td>
<td>18.88</td>
</tr>
<tr>
<td>Meat Packing</td>
<td>19.39</td>
</tr>
<tr>
<td>Woodworking</td>
<td>20.48</td>
</tr>
<tr>
<td>Quarry</td>
<td>21.46</td>
</tr>
<tr>
<td>Paper &amp; Pulp</td>
<td>21.52</td>
</tr>
<tr>
<td>Foundry</td>
<td>22.49</td>
</tr>
<tr>
<td>Tanning &amp; Leather</td>
<td>22.53</td>
</tr>
<tr>
<td>Marine</td>
<td>25.73</td>
</tr>
<tr>
<td>Clay Products</td>
<td>38.16</td>
</tr>
<tr>
<td>Refrigeration</td>
<td>44.22</td>
</tr>
<tr>
<td>Mining</td>
<td>50.86</td>
</tr>
<tr>
<td>Lumbering</td>
<td>64.69</td>
</tr>
</tbody>
</table>

**SEVERITY**

<table>
<thead>
<tr>
<th>Industry</th>
<th>Days Lost</th>
</tr>
</thead>
<tbody>
<tr>
<td>Laundry</td>
<td>0.14</td>
</tr>
<tr>
<td>Tobacco</td>
<td>0.25</td>
</tr>
<tr>
<td>Printing &amp; Pub.</td>
<td>0.48</td>
</tr>
<tr>
<td>Glass</td>
<td>0.50</td>
</tr>
<tr>
<td>Aircraft Mfg.</td>
<td>0.61</td>
</tr>
<tr>
<td>Automobile</td>
<td>0.64</td>
</tr>
<tr>
<td>Textile</td>
<td>0.66</td>
</tr>
<tr>
<td>Rubber</td>
<td>0.66</td>
</tr>
<tr>
<td>Machinery</td>
<td>0.66</td>
</tr>
<tr>
<td>Sheet Metal</td>
<td>0.67</td>
</tr>
<tr>
<td>Woodworking</td>
<td>0.88</td>
</tr>
<tr>
<td>Food</td>
<td>1.04</td>
</tr>
<tr>
<td>Meat Packing</td>
<td>1.06</td>
</tr>
<tr>
<td>Chemical</td>
<td>1.29</td>
</tr>
<tr>
<td>Tanning &amp; Leather</td>
<td>1.30</td>
</tr>
<tr>
<td>Petroleum</td>
<td>1.31</td>
</tr>
<tr>
<td>Metal Products</td>
<td>1.32</td>
</tr>
<tr>
<td>Marine</td>
<td>1.47</td>
</tr>
<tr>
<td>All Industries</td>
<td>1.49</td>
</tr>
<tr>
<td>Transit</td>
<td>1.49</td>
</tr>
<tr>
<td>Air Transport</td>
<td>1.50</td>
</tr>
<tr>
<td>Non-Ferrous Metals</td>
<td>1.62</td>
</tr>
<tr>
<td>Public Utility</td>
<td>1.66</td>
</tr>
<tr>
<td>Foundry</td>
<td>1.74</td>
</tr>
<tr>
<td>Paper &amp; Pulp</td>
<td>1.83</td>
</tr>
<tr>
<td>Clay Products</td>
<td>1.97</td>
</tr>
<tr>
<td>Steel</td>
<td>2.26</td>
</tr>
<tr>
<td>Construction</td>
<td>3.42</td>
</tr>
<tr>
<td>Quarry</td>
<td>3.55</td>
</tr>
<tr>
<td>Refrigeration</td>
<td>3.95</td>
</tr>
<tr>
<td>Lumbering</td>
<td>5.11</td>
</tr>
<tr>
<td>Mining</td>
<td>10.52</td>
</tr>
</tbody>
</table>

*Source: Reports of industrial establishments to the National Safety Council*
STAFF MAY OBTAIN LECTURE TICKETS FROM W. A. AERY

The Peninsula Institute of Public Affairs, a non-profit organization which each winter brings to the Peninsula area outstanding speakers on matters of national public interest and of international moment, announced today that a series of four lectures will be sponsored this year.

Season tickets at $1.10 are now available through William A. Aery (368), Technical Service Building (Selective Service Office), for those who desire to attend the series of four lectures. Admission to single lectures will cost 55 cents. Interested patrons are urged to obtain season tickets, since this gives the soundest support to the Institute's program.

The first lecture is scheduled for Dec. 8 at 8:15 p.m. at the Newport News High School auditorium, which will also be the scene of the other lectures in the series. Wallace R. Dewel, a distinguished war correspondent who knows what is going on inside Nazi-dominated Europe, will discuss "The World Counter-Revolution."

"War in the Pacific Today" will be the subject of a lecture on Jan. 14 by Col. C. P. Romuls, who is filling a return engagement by request of many Peninsula citizens who heard him last year.

H. R. Knickerbocker, an outstanding journalist, will be the lecturer on Feb. 4 with a talk on "A Man and a Nation." The subject of the March 7 lecture has not yet been announced.

Pay Roll and Bonds moved from the first floor of the Technical Service Building to the second floor (south side) of the remodeled Engine Laboratory Building. The telephone number is 298.

Three groups move to new quarters

Three groups moved into new quarters at the Laboratory during the past week.

The Apprentice Administration, formerly located in the Warehouse Building in the West Area, is now on the second floor of the Technical Service Building in space recently occupied by Reproduction Section. The telephone number remains 256.

Pay Roll and Bonds moved from the first floor of the Technical Service Building to the second floor (south side) of the remodeled Engine Laboratory Building. The telephone number is 298.

NURSERY MAY OPEN DEC. 1

Mrs. Lenore D. Hulcher, counselor to women, announced today that plans for a nursery to accommodate young children of mothers employed at the Langley Laboratory have been completed.

Mrs. T. A. Loper, former Laboratory nurse, and her sister, Mrs. Maddy, have purchased the old Hope home at 103 N. King Street in Hampton and they are turning it into a 24-hour service nursery, Mrs. Hulcher stated. The tentative opening date will be December 1.

Mrs. Loper and Mrs. Maddy are both registered nurses, and the children will be well supervised. Two nurses will be on duty during the day and one during the night. Parents may

GIRLS PREPARE TO MOVE INTO WYTHE HALL

Ann Wythe Hall, the new women's dormitory on Bay Avenue adjacent to the Kecoughtan Court Apartments, will be ready for occupancy on Monday morning, November 22. This announcement was made yesterday by Basil Sawyer, resident manager of the hall.

After being under construction since early last July, the dormitory facilities have all been installed and all women who have filed applications may move in any time after Monday morning, bag and baggage. Anyone who wishes to make arrangements for a room and has not done so, may go directly to the office in the community building on the project.

There are 128 single rooms and 120 double available. The rental rates are $5 per week for the single rooms and $3.50 per person in the doubles. This includes payment for all dormitory services such as linen, towels, continuous hot water, use of telephones, and infirmary services (except food and medicine).

Applications have been very few and far between so far, but they are expected to make a rapid rise now that the definite opening date has been set. All persons who would like to make reservations are urged to do so as soon as possible so that they may be able to have their choice of rooms.
Enjoy Your USO

The Bulletin would like to call to the attention of LMAL employees the fact that the Industrial USO, designed to offer recreational services to war workers in this community, is open to NACA staff members.

The center offers a variety of services. You may find there a quiet place to read in comfort, write a letter home, or participate in games. Most important of all, you have an opportunity of meeting new friends in an atmosphere that is pleasant and homelike.

One new feature will be the inauguration of a series of holiday dances. The first will be a Thanksgiving dance but will take place on Saturday night, Nov. 27, at 8:30 o'clock. Other dances are planned for Christmas and New Year's.

Let's make more use of the recreational center. A full use of the present facility could be a convincing argument for the need of a larger one in the future.

LIBRARY NEWS

The following new books have been received in the Library and are available for charging out for a four-day loan period. These books must be called for and returned personally by staff members.

- Tannehill, I. R. Hurricanes.
- Moss, Sanford A. Superchargers for Aviation.
- Fechet, Crane and Smith. Parachutes.
- Hober, James F. Soft Soldering, Hard Soldering and Brazing.
- Lunge, George. Technical Gas Analysis.
- Nebellette, C. V. Photography.
- Schwab, Georg-Maria. Catalysis.
- Temple, G. An Introduction to Quantum Theory.
- Miller, Garman and Droz. Experimental Electronics.
- Sverdrug, H. U. Oceanography for Meteorologists.
- Camm, F. J. Dictionary of Metals And Their Alloys.
- Molloy, E. Modern Oil Engine Practice.

- Severance
MODEL CONTEST NOV. 21
AT LA SALLE FIELD

The Brain Busters will hold a gas model contest at the La Salle Avenue field on Sunday, November 21, from 1 to 5 p.m. Prizes will be awarded to the winners in classes A & B combined and in class C.

Included in the prizes will be the coveted Reiser perpetual trophy, the Marchal trophy, and Everett's super award. These, and many other awards will be presented to the winners at the club meeting Sunday at 8:30 at the Industrial USO.

Entry fee will be 50 cents per class before the contest and 75 cents at the meet.

ACHIEVEMENT: NACA's low-drag cowling for air-cooled engines won for the Committee the Collier Trophy for the most outstanding aviation achievement in America in 1930.

MAY HAVE BRIDGE PARTY NOV. 29 AT INDUSTRIAL USO

In connection with the effort to organize an NACA Bridge Club at the Industrial USO on Monday nights, if enough persons are interested a party will be held on Monday, Nov. 29, at 7:30 p.m.

Those who are interested may communicate with Manny Stein, Structures Research, or Lenore D. Hulcher, Counselor to Women.

DANCING: Any girl, 18 or over, who is interested in attending the dances at Fort Monroe on Monday and Friday nights, may contact Mrs. Lenore D. Hulcher, phone 386. The dances are well chaperoned and transportation is furnished. Those who are interested please contact Mrs. Hulcher not later than Wednesday for the Friday dance and not later than Friday for the Monday dance.

VACATION RHAPSODY

RETURN OF THE NATIVES:
Mary Frances McDonald, Full Scale, from home in South Carolina; Mervin Mandel and George Zender, Structures, from a fling in New York; Melville Marks, FRM, from the Big City; Becky Boykin, Oleta Church, Margie Bullock, Dot Pierce, Jane Brown, and Gertrude Long, AWT, from a weekend in Washington; Hazel Redding, AWT, from home in High Point, N.C.; Sally Mills, AWT, from home in Rocky Mount, N.C.; Ethel Kirsch, AWT, from home in New York; Arvo Luoma, 8-foot Tunnel, from home in Massachusetts.

THOSE STILL AWAY:
Stan Lipson, Full Scale, sunning in Miami—the lucky boy; Vito Tamburello, AWT, at home in New York; Ann Deimel, FRM, at home in Baltimore and also planning to take in a few high spots in New York and Philadelphia.

NOW WHO DOESN'T UNDERSTAND WHY AN AIRPLANE FLIES

\[ CD = \frac{C}{\pi}, \quad TA = 0 \]

\[ \text{NACA} = \text{LMAL} \]

\[ \text{Cal = Muse} \]

\[ \text{Turn} \]

\[ \text{Diesel} \]

\[ \text{XXX} \]

\[ \text{FDR} \]
EX-MLAL MODELMAKER
WINS DFC, AIR MEDAL

A former Langley Laboratory modelmaker, Staff Sgt. Arthur Edward Potvin, 19, of Hampton, has been awarded the Distinguished Flying Cross and the Air Medal for his participation in the damaging air raid on Romania's Ploesti oil refineries last August. A 1941 graduate of Hampton High School, Sergeant Potvin was employed at MLAL until August, 1942, at which time he volunteered for the Air Corps.

MISCELLANY: Harriet Tindal, Structures, is at home after spending several days in Dixie Hospital...Blanche Sponsler, formerly of Structures, has been made head of the West Area Computing Section...Structures enjoyed an informal dinner-meeting Nov. 17 in the Cafeteria...The Tank No. 1 employee who comes closest to guessing the weight of the carriage wins a prize...Walter Williams, FRM, is recovering from the bashing his nose received in a touch football game last week...Margaret Allison is leaving today for her home in St. Louis. Full Scale is welcoming Mildred Owen who is taking her place...Liz Lipscombe, Full Scale, has returned from her home in Richmond after receiving treatment at a hospital there...The Reproduction Department, Blueprint Room, and Photo Lab have finally gotten together under one roof in the former Engine Lab...When a newcomer to the field asked an engineer what all the new towers and smoke stacks were for, Roscoe intelligently replied: "Oh, they're to be an obstacle course for airplanes."

LET'S HAVE A PARTY: Tank's party at Oak Point Nov. 13 was a real success, despite the fact that one couple had a flat tire and another couple ran out of gas (???). After departing Oak Point, the gang assembled again at the home of Bud Zeck for more merrymaking. The next day, the Tank football team got caught napping and lost the game as the result of a "sleeper play". Ethel Baron of Montreal, who is engaged to Robert Tarshis, was a party guest...It is rumored that the girls of AFR are peeved because the boys in their section held a stag party Nov 15 at Oak Point...Folks are wondering how Evelyn Renfro got mixed up about the Flight Research party. She claims it was on the Boulevard and everyone else says it was at Art Vogeley's home...Mrs. L. I. Turner, former head of the 16-foot Tunnel Computers, entertained at an informal open house at her apartment on Armistead Avenue Nov. 14...

AERO DIARY: NACA published 23 technical reports the first two and one half years of its existence.

GROWING PAINS: The Langley laboratory had five employees and one building 27 years ago.
TWO BIG GAMES SLATED IN FOOTBALL LOOP

Two important games are scheduled Sunday, Nov. 21, in the NACA touch football league and a large turnout of rooters is expected.

Engineering Section, which is leading the league with five wins and one loss, will tangle with Structures, boasting four wins and two losses, at 11 a.m. at the Wilson field.

The other standout game will be between FRM, second place team with three wins and a single loss, and PRT, at 1 p.m. at the Wilson field.

Other games include: West Area Shops vs. 8-foot; and Full Scale vs. AFR, at 11 a.m. at Hampton; and 16-foot vs. Tank at 1 p.m. at Hampton.

FRM Tops 16-Foot

Scoring late in the first quarter on a pass from Sjoberg to Matthews, FRM went on to defeat 16-foot Tunnel, 19 to 0. FRM scored again in the third on a 35-yard off-tackle smash by Matthews. The final touchdown came in the last quarter on a five-yard pass from Sjoberg to Craig. Matthews' conversion attempt was good. Williams in the line and Matthews in the backfield starred for FRM, while Al Evans, Turner and Maloney, linemen, and Cartabiano, back, were outstanding for 16-foot.

Shops and PRT Tie

West Area Shops and PRT deadlocked, 12 to 12. In the first quarter Mastrocola of PRT passed 15 yards to Keith in the end zone for the first score. WAS scored on a pass from Everett to Taub and a short time later Little passed to Moscater for WAS's second score. In the fourth, Mastrocola's ten-yard pass to Boswinkle in the end zone put PRT even. Mastrocola, trying a game-winning extra-point kick, booted the ball too low.

AFR and Tank battled on even terms for three quarters. Finally AFR broke loose in the fourth to score two quick touchdowns to win, 12 to 0. The first came on a "sleeper pass" from Dawn to Brown and the final one on a toss from Dawn to Johnson in the end zone. Donaldson missed both extra points.

Structures Tops 8-Foot

Structures defeated 8-foot Tunnel, 24 to 12, in a contest which remained tied for a long while. Ochiltree put Structures ahead by scooping up a deflected pass on the second play and racing for a touchdown. A short while later 8-foot tied the score. There was no more scoring until the fourth quarter when Neff passed to Ochiltree to put Structures ahead 12-6; however, 8-foot tied the score when Math­son's pass was good for a touchdown. Ochiltree gathered in a long pass to make the score 18-12 and a little later Neff skirted right end to the final touchdown. Hickman's punting and goal line stands were defensive highlights for Structures.

Announce Rulings

The disputed game between FRM and WAS will be played at the end of the league schedule and it will not be counted now. The Engineering Section vs. 16 Foot Tunnel dispute will be settled by a review of the football regulations. All ties will be counted as a half game.

All team captains are reminded to send their write-ups to Schumacher, Engineering Section, before Wednesday so that the write-up may be turned over to the Bulletin Office by Wednesday.

STANDINGS

<table>
<thead>
<tr>
<th>Team</th>
<th>Won</th>
<th>Lost</th>
<th>Tied</th>
<th>Pct</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engr.Sect.</td>
<td>5</td>
<td>1</td>
<td></td>
<td>.833</td>
</tr>
<tr>
<td>FRM</td>
<td>3</td>
<td>1</td>
<td></td>
<td>.750</td>
</tr>
<tr>
<td>AFR</td>
<td>4</td>
<td>2</td>
<td></td>
<td>.667</td>
</tr>
<tr>
<td>Structures</td>
<td>4</td>
<td>2</td>
<td></td>
<td>.667</td>
</tr>
<tr>
<td>Tank</td>
<td>3</td>
<td>3</td>
<td></td>
<td>.500</td>
</tr>
<tr>
<td>PRT</td>
<td>2</td>
<td>3</td>
<td>1</td>
<td>.417</td>
</tr>
<tr>
<td>8' Tunnel</td>
<td>2</td>
<td>3</td>
<td></td>
<td>.400</td>
</tr>
<tr>
<td>16' Tunnel</td>
<td>2</td>
<td>4</td>
<td></td>
<td>.333</td>
</tr>
<tr>
<td>Full Scale</td>
<td>2</td>
<td>4</td>
<td></td>
<td>.333</td>
</tr>
<tr>
<td>W.Area Shops</td>
<td>0</td>
<td>4</td>
<td>1</td>
<td>.100</td>
</tr>
</tbody>
</table>

CLEVELAND CLIPPINGS

PUT THAT RIFLE DOWN: Ernie Neuhoff is instructing a group of about 25 AERLites in the art of using a rifle. The course consists of six lectures, one a week.

BOWLING: Bob Reich, captain of the Supercharger Bowling team, hit a new high game recently of 234 and a three-game total of 626. Flight Research boasts the high team game with 2294.

FORE: At a golfers' party culminating the Clevelanders' season, Jesse Hall, formerly of IMAL, was elected president of the golfers club for the coming year. Pearl Young showed some technicolor movies which she made of the last two tournaments.

ALL DRESSED UP: Congratulations and best wishes to Wing Tips, which recently changed over from mimeograph to offset reproduction on its first anniversary.

PROMOTED: Robert C. Sessions, Instrument Research and Development Section, has assumed the position of assistant to the Manager, succeeding Clarence E. Burke, who resigned to resume work with the General Electric Company.

COMMUNITY CHEST: A total of 1,006 employees of the Cleveland Laboratory made contributions totalling $7,251.99 in the recent drive.

GRADUATION: The first NACA Engine Mechanics' School graduated nine, with A. G. DiNovo as top honor man with a grade of 94 per cent.

NEW DUTIES: Eugene C. Braig, Jr., Office Manager of AERL, is adding the duties of Personnel Officer to his other work. W. C. Malin, former Personnel Officer, is devoting full time to other assignments.

LOBBY LINES: Harvey Allen, AAL, was recently greeting old IMAL friends now at Cleveland. ...Abe Silverstein, Chief, Engine Installation Division, has in his office a framed diploma awarded him by IMAL associates.
Lecture (From page 1)
mentator, and lecturer, who has been in the center of events in Europe and Asia during the past ten years, will lecture on March 7 on, "At the Ringside of History".
The fourth lecture, which it is hoped will concern post-war developments and problems in American industrial life, will be announced later.
A question and answer period will follow each lecture.

NURSERY (From page 1)
bring their children and call for them at any time.
The nursery will accommodate both boarding and day children. The fee will be $10 per week for boarding children, and $1.50 per day for day children.
FOUND: A pair of silver-rimmed glasses, turned in by an employee of the 16-foot Tunnel. Owner may communicate with Indie Atkins, Files.

DO IT SAFELY!

REPRODUCTION Al SAYS: MAKE LETTERS PROPER HEIGHT

OCT. 1-15 BONDS LATE DUE TO DELAY IN MAILS
War bonds for the Oct. 1-15 pay period are not expected to be ready for distribution before the first of this week because the schedule was considerably delayed in the mails en route to Washington, it was announced. As a result of the unavoidable delay, it is expected that the Oct. 16-31 bonds will arrive for distribution soon after the Oct. 1-15 group.

THE PROPER WAY TO HOLD A CHISEL, KNUCKLES ARE OUT OF DANGER AND THE HAND IS HELD AWAY FROM THE CHISEL HEAD.
DEPOSIT TOYS IN CAFETERIAS

The East and West Area Cafeterias have been designated as points where Laboratory employees may deposit old toys which patrons of the Industrial USO in Hampton will repair for distribution to underprivileged children in the community at Christmas time.

Leigh Lewis is chairman of the committee in charge. He is being assisted by Bill Poythress, West Machine Shop. Only a few toys have been received since the initial request for them two weeks ago.

Mr. Lewis urges all Laboratory staff members to make an inventory at home of their old toys and to bring with them any that will not be needed again.

PLACE TRASH CANS OUTSIDE OF LABORATORY BUILDINGS

Walter Reiser, Head of Maintenance, announced today that trash receptacles have been placed outside various buildings.

Employees are urged to deposit trash in the receptacles and help maintain clean premises.

Knox, Stimpson Cite Importance Of NACA’s Work

Dr. Jerome C. Hunsaker, Chairman of the NACA, recently received a letter over the joint signatures of Frank Knox, Secretary of the Navy, and Henry L. Stimson, Secretary of War, commending the Committee on its contribution to the war effort, particularly in view of the manpower shortage.

"We appreciate the difficult problem which the National Advisory Committee for Aeronautics has, in these days of manpower shortage, in maintaining a civilian staff adequate to perform the research and testing and design work which you have been asked to undertake for the Army and Navy", the letter says...

"Each person engaged in it, who is doing satisfactory work, should feel that he is giving direct and necessary support to our fighting forces. We trust that the members of your staff of all grades of employment will appreciate this."

The letter concludes by stressing the necessity of continuing the urgent work entrusted to the Committee, and urges that all employees realize that their greatest contribution to the war effort will be to stay at their present posts of duty.

Did you cash a bond to pay your taxes, or save them to help defeat the Axis?

Thanks To You On Our Anniversary

The Bulletin is one year old this week. The first issue rolled through the Laboratory's offset press on Nov. 30, 1942, and since that time 34 other issues have been distributed to the personnel of LMAL.

On this week of Thanksgiving, the Bulletin staff would like to pause and offer thanks to those who have helped us during our first year—especially those in the various Reproduction Departments who have been so faithful and cooperative; our weekly contributors of news and art, and many others who have offered helpful suggestions and advice.

The Bulletin is one year old this week. The first issue rolled through the Laboratory's offset press on Nov. 30, 1942, and since that time 34 other issues have been distributed to the personnel of LMAL.

On this week of Thanksgiving, the Bulletin staff would like to pause and offer thanks to those who have helped us during our first year—especially those in the various Reproduction Departments who have been so faithful and cooperative; our weekly contributors of news and art, and many others who have offered helpful suggestions and advice.
Tennyson Predicts Airplane

Alfred Tennyson, in his poem "Locksley Hall", published in London in 1842, made the following remarkable prediction concerning the airplane:

Men, my brothers, men the workers, ever reaping something new:

That which they have done but earnest of the things that they shall do;

For I faint into the future, far as the human eye could see,

Saw a vision of the angel, and all the wonders that would be;

Saw the heavens fill with commerce argosies of magic sails,

Pilots of the purple twilight, dropping down with costly bales;

Heard the heavens filled with shouting, and there reigned a ghastly dew

From the nation's airy navies grappling in the central blue;

Far along the world-wide whisper of the south-wind rushing warm,

With the standards of the people plunging thro' the thunderstorm;

Till the war-drum throbbed no longer, and the battle-flags were furl'd

In the Parliament of man, the Federation of the world.

There's the common sense of most shall hold a fretful realm in awe,

And the kindly earth shall slumber, lapt in universal law.

So I triumph'd, ere my passion sweeping thro' me left me dry,

Left me with the palsied heart, and left me with the jaundiced eye;

Eye, to which all order festers, all things here are out of joint,

Science moves, but slowly, slowly, creeping on from point to point:

Slowly comes a hungry people, as a lion creeping nearer,

Glances at one who nods and winks behind a slowly-dying fire:

Yet I doubt not thro' the ages one increasing purpose runs,

And the thoughts of men are widened with the process of the suns.
LIFE BEGINS AT ANN WYTHER HALL AS GIRLS MOVE IN

SIGNING UP....

BULL SESSION....

AND SO TO BED....

JUST "CONVALESCING"

ANN WYTHER HALL is taking on life this week Court. These posed pictures, taken by a Lang­
as single girl defense workers move in and ley Laboratory photographer, show the recep­
make themselves at home. Girls started moving tion desk (top left) in the main lobby; a part
in Nov. 22, the day after "open house". There of the Lobby (top right); a part of a double
are still rooms available in the residence room (lower left), and a bed in the well-
hall, which is located adjacent to Recoughtan equipped four-bed infirmary.
Engineering continues to hold the lead in the NACA touch football league, but APR is close on their heels. Nov. 21 games included:

**Engineering 21**: Structures 6—After a scoreless first half, Engineering's strong offensive attack meted two quick touchdowns in the third quarter. Engineering received the second half kickoff and brought the ball to Structures' 8 on a series of passes. Schumacher's pass to Blank was good for a touchdown. A pass from Marchal to Lindell accounted for the extra point. Engineering tallied again on a five-yard-pass from Marchal to Lindell. Nutter's placement effort was low. After halting an Engineering bid for another score in the fourth quarter, Structures fumbled behind the goal and gave the winners another two points. In the waning moments, Blank rifled a pass to Schumacher who ran 25 yards to tally. Schumacher's drop kick missed. Structures scored their lone touchdown midway the fourth quarter on a long pass from Bartone to Ochiltree. Nutter, Lindell and Nagle in the line and Brown, Schumacher, and Blank in the backfield were Engineering's stars, while Structures relied on Stein and Sperry in the line and Bartone and Neff in the backfield.

**PRT 3; FRM 0**: After one unsuccessful field goal attempt, Mastrocola booted the ball over the uprights from the 20-yard line in the first quarter. FRM tried to tie the score in the second but a placement attempt was low.

**16-foot Tunnel 5; Tank 0**: Weakened by the absence of key men out with injuries, a tired Tank team held 16-foot Tunnel scoreless until the last play when Korymslnski swept around end behind beautiful interference produced by Maloney, Turner and Runckel to score from the 30. Hacskaylo and Freihofner were outstanding in holding the Tunnel team in check. Evans was outstanding in the 16-foot line, while Miller, Maloney, and Runckel starred in the line.

**West Shops 12; 8-foot 12**: Touchdowns were made by 8-foot Tunnel when they recovered Everett's blocked kick behind the goal line; and on a long pass. West Shops scored on a pass interference by Mattson against Jack Kitzler, who was receiving from Kurtzka. The Shops tallied again on a center sneak by Taub, after Everett's long run had moved the ball to the one-foot line.

**Full Scale Drops Out**: All games played against Full Scale thus far will be declared void.

**Schedule**: Nov. 28—Tank vs. 8-foot at 11 a.m. at Hampton; Engineering vs. FRM at 11 at Wilson; West Shops vs. APR at 1 p.m. at Hampton; 16-foot vs. PRT at 1 at Wilson; Structures, bye. Dec. 5—16-foot vs. 8-foot at 11 Wilson; Engineering vs. PRT at 11 at Hampton; Structures vs. APR at 1 at Wilson; Tank vs. West Shops at 1 at Hampton; FRM, bye; Dec. 12—8-foot vs. FRM at 1 at Wilson.

**Standings**

- **Team**
  - **Won**
  - **Lost**
  - **Tied**
  - **Pct.**
- **Engr. Sect.**
  - 5
  - 1
  - 633
- **APR**
  - 4
  - 2
  - .667
- **FRM**
  - 3
  - 2
  - .600
- **PRT**
  - 3
  - 2
  - 1
  - .583
- **Structures**
  - 4
  - 3
  - .571
- **Tank**
  - 2
  - 4
  - .333
- **16' Tunnel**
  - 2
  - 4
  - .333
- **8' Tunnel**
  - 2
  - 3
  - 1
  - 300
- **W Area Shops**
  - 2
  - 3
  - 2
  - 200

**“Battle Of Music”**

A "Battle of Music" will be staged at the Hampton Armory on Friday night, Dec. 3, under the auspices of the Hampton Lions' Club. The bout will bring together the two leading contenders for the crown of "King of Swing", Boogie Woogie Blanton and Battling Red Overton. Each will be backed to the limit by his own orchestra.

All proceeds will go to the Lions' Club Fund for the Scheduled Dec. 3 Blind.

One outstanding feature of the evening is that there will be no intermission; the bands will play in shifts from 9 until 12.

Tickets at $1.65 may be obtained from any of the following:

- Joe Shortal, Free Flight Tunnel; Bob Sawyer, Flight Research; Murray Segal, 8-foot Tunnel; or Jim Findley or Jimmy Sinclair at the East Model Shop.
**VACATION RHAPSODY**

**RETURN OF THE NATIVES:** Stan Lipson, Full Scale, from Miami, where it rained half the time he was there; Texie Belle Felts, Full Scale, from home in Murfreesboro, N. C.; Walter Lee, Blueprint Room, and Kenneth Shupe, Photo Lab, from the Duke-Carolina game, where the Carolina maidens broke their hearts; Roxie Carswell from home in Lexington, N. C.; June Woodbridge, AID, from home in Williamsburg; Al Stokke, AID, from Troy, N. Y.; Gordon Fisher, Structures, from Baltimore; and a crowd from a "get-together" in Williamsburg, including Louise Thomas, Norman Silsby, Esther Wendling, Bill Mueller, Sig Sjoberg, Betty Ludwig, Don Talmadge, Helen Flannagan, Charlie Lidell, Evelyn Henfro, Chet Furlong, and Mary English.

**THOSE STILL AWAY:** Esther Wendling, FRM, and Bill Mueller, Full Scale, in New York; Norman Silsby, FRM, and Margaret Farmer, East Area Computing, at Margaret's home in Wilson, N. C.; Eleanor Johnson, FRM, at home in Monroe, La.; Isabelle Martin, AID, in Bowling Green; Joe Weil, AWT, at home in New York; Jack Nielsen, Full Scale, in Philly; Bennie Cocke, Full Scale, leaving today for his home in Texas; Jack Easley, Engineering, at home in Knoxville; Ann Ingle and Hank Elksnin, Engineering, at his home in Massachusetts (looks like the real thing).

**FOUND:** A gold bracelet with four small book emblems attached; and an NACA tool check, No. 228. Apply to Indie Atkins, Files.

**LOST:** Gold stretch bracelet with a heart design, probably in the wash room of the Technical Service or the Administrative Buildings. Please notify Mrs. Hetz, Instrument Service.

---

**LIFE AT THE LABORATORY**

**LOVE'S IN BLOOM:** Byrdelle Nicholas, 19-foot Tunnel, planned to be married Thanksgiving Day at her home in Mississippi. . . . Jane White, Circulation, is visiting at her home in Dayton, Tenn., where she is showing her family the diamond ring she received from C. C. (Toots) Prospere, Free Flight. . . . The engagement of Willie Barger, East Area Computing, to Charles Brooks Gates, Roxboro, N. C., was announced at a party given by her sister in Charlotte. The wedding will take place Dec. 18 in Mooresville, N. C. . . . Tom Smull, formerly of AID and now of the Washington Office, is reported to be engaged. . . . Vito Tamburello, AWT, returned from his home in New York all smiles over the answer he got to that "all-important question". . . . Rubye Wobble, AWT, is sporting a sparkler from E. I. Scott of Newport News. . . . Wilmheina Stroud, Engineering, is all aglow over her brand new diamond, just arrived from Puerto Rico. . . . Robert Byrne, 24-inch Tunnel, and Katherine Noland of New Jersey are marrying today (Nov. 27) in New Jersey.

**MISCELLANY:** Martha Parks, AWT, is recovering at home in Beaconsdale after an appendectomy at Riverside Hospital. . . . Kaz Czarnecki, Full Scale, underwent an operation at Dixie Hospital Nov. 22. . . . Full Scale's new social committee includes Charlie Kelly, Chairman; Texie Belle Felts, Secretary-Treasurer, and Liz Lipscombe and Kenny Pierpont. . . . A belated initiation ceremony was held at Club 55 when Hunk Hart found a rat in his bed. . . . Engineering Section well remembers their touch football game with Structures. Irwin Schumaker sprained an ankle so badly he was in bed several days; Joe Dodson showed a noticeable limp, and Paul Marchal broke two ribs. Oh well—at least they won. . . . Engineering Section feels quite depleted after losing about 15 men and Secretary Ruth Dickson to the West Area. . . . Frances Moore, Tank, is sporting a new Packard convertible. . . . It's a big day for AID. After cheering through the Virginia-Carolina game, they'll meet tonight at a Norfolk dance spot. . . . Willie Mutterperl, Full Scale, who leaves soon for AERL at Cleveland, was entertained recently. . . . Ralph Avakian, 19-foot Tunnel, has a "dashing" white chin bandage. He leaned too far out of a victory-spring bed to quiet an alarm clock. . . . "It's on again, off again," is the way friends are describing Raymond Zavasky's attempt at cultivating a mustache. . . . Charlie Satterfield, Fire Commissioner, observed his 46th wedding anniversary the past week. . . . LMAL's deer hunters invaded the Mohawk Club grounds last Saturday for a one-day expedition. They included S. Walter Hixon, Willard Underwood, and Gordon Avery, Apprentice Administration; Leo Burch, West Machine Shop; D. E. Henry, War Manpower Commission, Carl Hiter and Charlie Shobe, Instrument Service, and Joe Lada, West Machine. Hixon bagged an 8-point buck, but not until after he had missed a previous shot, thereby losing his shirttail. Henry and Lada also lost their shirttails, an old deer-hunting tradition. Avery brought home a small buck.

**FOUND:** A gold plated religious trinket, in the shape of a clock, and slightly larger than a five-cent piece, was found in the street in front of the Full Scale Tunnel. Owner may have same by contacting the Bulletin Office, 378.

**WANTED TO TRADE:** Two rolls of Agfa PB2 film for two rolls of Agfa B2. Call Paul Purser, Fiscal Office, 294.

**LOST:** One set of quarter-inch drive socket wrenches; reward for return to Jim Bertoci, 16-foot Tunnel, 286.
Sladek Wins Top Honors In Model Meet

The Brain Busters, taking advantage of perfect weather, turned in several beautiful gas model flights at La Salle Avenue field Nov. 21. The largest number of contestants and spectators seen at the field since midsummer turned out.

In Class A and B (combined), Dick Sladek came out on top in close competition with a total time for three flights of five minutes, 27 seconds. He received the Marchal Trophy and $5 in cash.

Bob Annas was second with four minutes, 59 seconds, and won a Diamond Demon kit and $3; Tom Able, winning second with four minutes and 52 seconds, received $2; and Ben "Killer" Cleveland won fourth and a book on model design by Charles H. Grant, with a time of four minutes, three seconds.

Frank Parmenter was an easy first place winner in Class C. Flying his Cyko powered "Swoose" for a total time of eight minutes, 29 seconds, he was presented the Reiser Trophy and $5.

Charles Folk received a Playboy Kit and $3 for second place with a time of five minutes, 47 seconds. Curtis Martin won third and $2 with a time of four minutes, 45 seconds. A Pereria was fourth.

C. R. Molisee did a swell job as contest director and also presented the prizes at the club meeting at the Industrial USO the night of Nov. 21.

Fred "Hog" Waller presented the coveted Brain Busters' consolation award he won in Baltimore in October to Charles Folk.

Brain Buster officials issued a reminder to members who have not paid their Nov.-Dec.-Jan. dues to do so at once, since the treasury is low.

IT'S NO TRICK TO BE CAREFUL!

ACCIDENTS ARE SOMEONE'S FAULT-

DON'T LET THEM BE YOURS!
“SHARE-THE-RIDE” SERVICE OFFERED DURING HOLIDAYS

In order to comply with the presidential request that travel by public transportation be curtailed during the Christmas holidays, the Bulletin is inaugurating a "share-the-ride" service in an effort to fill all private automobiles which will be used for trips during the period.

Anyone who is planning on driving anywhere, and who has empty seats in his car, is asked to list his name, destination, departure, and return dates, and the number of vacancies. This may be done by sending a note to the Bulletin office through circulation or by calling 376. It is hoped that this will provide rides home for some persons who would otherwise be able to make the trip, due to the already over-burdened public transportation. It will also help to cut down on the expenses of everyone traveling.

OFFICIALS EMPHASIZE IMPORTANCE OF KNOWING LEAVE REGULATIONS

All employees are urged to study the following regulations before applying for annual leave during the period of Dec. 17 through Jan. 10.

No leave will be granted if travel by common carrier is involved, except in cases of extreme emergency.

Leave in excess of one calendar week and for New Year's Day must have the prior approval of the Engineer-in-Charge.

Each request for leave which extends the year's total beyond twenty days must be accompanied by a written statement explaining the urgency of the need. This statement must have the approval of the section head and division chief and must be in the Personnel Office, with the leave card, prior to the taking of such leave.

In all cases involving absence without permission, the employee must report to the Personnel Office with a written explanation of the absence, before reentering on duty. This explanation must have the recommendation of one's section head and the approval of the Personnel Officer, both of which must be obtained before the statement is presented.
Four LMAL girls who already have rooms at Ann Wythe Hall offer the following comments:

Josephine Hughes, Personnel... "What I like best is having hot water all the time, also having access to an iron and ironing board. Rooms are cleaned every day by maids and the linen is changed at proper intervals. It's the most satisfactory place I've lived in since being here."

The buildings are very comfortable and come with proper heating and lighting. I had never lived in a dormitory before and I thought I'd like to see what it was like; then, too, my previous room was too small. It's really ideal for a girl who does want a room."

Cassie Lee Jennings, '19, Tunneled: "It's really a very nice place; also we have some means of protection because a watchman stays there all of the time. The rules aren't as strict as some people think. The front desk closes at 11 o'clock but we may come in any time we wish; that's what we like. The cafeteria hasn't been built yet but there are adequate restaurants within walking distance which are very nice."

Rosie Carver, "Photo Lab... I'm crazy about it. It's the best thing I've had since I've been in Hampton. The housemothers are wonderful; they don't pry and hassle."

We have the most wonderful building; there are no furnishings in everything, I feel like I'm in college again but I have much better furniture than I had in college. I like it because it is so convenient and they have a post office, etc., in Wythe. The drug store makes it possible to be able to run errands and buy shampoo and soap for free when you need it. It's also too, you get a printing service."

Christmas packages are in the mail and Hope everyone has Christmas spirit.
REQUEST INCREASE
IN CAR POOLING
A request has come in from Clyde Lumpkin, Chairman of the Laboratory Transportation Committee, urging all persons who have cars and are not driving them to work to put them in service and give fellow workers a lift.

Rides are needed on all shifts with the night shift having the most severe need. Mr. Lumpkin has pointed out that some cars are carrying as many as eight and nine persons other than the driver, when leaving the field at night. The hardest spot to get to is Copeeland Park.

The Transportation Office recently conducted a survey to determine the average number of passengers being carried by each car. The report showed that sedans are carrying an average of 4.6 passengers and coupes, of the single and club types, are carrying 3.7.

CLEVELAND CLIPPINGS
WEDDING BELLS: Ed Tuck is tying the knot with Vivian Cheek on Dec. 20. Ed's brother David, a Merchant Mariner from Hampton, is visiting.

LOBBY LINES: A group from the Aeronautical Chamber of Commerce toured the reservation recently...Upshur Joyner of LMAL...up on official business...the A. E. Biermanns entertaining Mr. and Mrs. Robert F. Flexington from Newport News.

FANTASTIC TRIPPING: Staff members celebrated the Thanksgiving season with a dance Nov. 20. The affair was sponsored by the NicNACA's.

LMAL TEACHERS: Approximately 350 AERLites have signed up for War Training courses. Among the most popular courses are Power Plant Installation, taught by Abe Silverstein; and Technical Report Writing, taught by Pearl I. Young.

“GREEN COW” NOMINATIONS REQUESTED
T. Melvin Butler, Chairman of the Noble Order of the Green Cow, has announced that a new executive committee for that organization will be elected during the next two weeks.

Four members will be elected, to serve for a one year term, and any member of the Laboratory staff is eligible for nomination. All nominations must be made on the form provided below for this purpose. Fill out the form, tear it off, and return it to the Bulletin office. The 12 persons who receive the largest number of nominating votes will be considered as official candidates. These will be voted on next week. A ballot will be provided in the Bulletin.

HEADLIGHT HINT
A helpful hint is hereby handed to all persons who still have the upper part of their automobile headlights painted in accordance with the former dimout regulations.

There is a Virginia state law which prohibits the obscuration of any part of the headlights of any motor vehicle. This law was superceded by the federal dimout law, but has come back into effect since the dimout has been lifted. Violators are subject to a minimum fine of two dollars. This information was obtained from A. A. Anderson, Sheriff of Elizabeth City County.

SATURDAY AFTERNOON...WEEKEND...AGAIN MONDAY

YOU CAN'T WIN
AFR Threatens Engineering Team's Lead

Engineering continued its stranglehold on first place in the Laboratory touch football league with AFR still one game behind. The games for Nov. 28 include:

Engineering 13; FRM 0:
Three scoreless quarters passed with the only serious attempt to score being made by FRM when they were held on downs on the victors' three-yard-line late in the second quarter. Early in the fourth quarter, the Engineering passing attack began to click and successive passes from Sadler to Brown worked the ball to the nine yard line. Schumacher then passed to Blank in the end zone for the score. The attempted conversion failed.

AFR 7; West Area Shops 6:
After a scoreless first half, W.A.S. drew first blood in the third quarter on a 20 yard pass from Barritt to Kinzler who ran 15 yards for the score. Panz misses a dropkick attempt for the point. A few minutes later Donaldson scored for AFR on a pass from Daum. Donaldson then place-kicked the winning extra point.

The league moves into the final two weeks of play with the championship still undetermined. The schedule for the next two weeks is as follows:
Dec. 5: 8' H.S.T. vs 16' tunnel at Wilson, 11 a.m.; Tank vs West Shops at Hampton, 11 a.m.; Engineering Section vs PRT at Hampton, 1 p.m.; Structures vs AFR at Wilson, 1 p.m.; FRM, bye; Dec. 12: FRM vs 8' H.S.T. at Wilson, 1 p.m.
There will be a meeting of all team captains Friday, Dec. 10, to settle all disputes and to make post season plans. Captains will be notified as to the time and place.

Several teams have expressed desires to play some of the sections again. Those desiring should consult the team they wish to play and then call Irwin Schumacher at the Engineering Section and find out what field is available.

Standings:

<table>
<thead>
<tr>
<th>Team</th>
<th>Won</th>
<th>Lost</th>
<th>Tied</th>
<th>Pctg</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engr.Sect.</td>
<td>6</td>
<td>1</td>
<td>-</td>
<td>.857</td>
</tr>
<tr>
<td>AFR</td>
<td>5</td>
<td>2</td>
<td>-</td>
<td>.714</td>
</tr>
<tr>
<td>PRT</td>
<td>4</td>
<td>2</td>
<td>1</td>
<td>.643</td>
</tr>
<tr>
<td>Structures</td>
<td>4</td>
<td>3</td>
<td>-</td>
<td>.572</td>
</tr>
<tr>
<td>FRM</td>
<td>3</td>
<td>3</td>
<td>-</td>
<td>.500</td>
</tr>
<tr>
<td>8' H.S.T.</td>
<td>2</td>
<td>3</td>
<td>1</td>
<td>.417</td>
</tr>
<tr>
<td>Tank</td>
<td>2</td>
<td>5</td>
<td>-</td>
<td>.286</td>
</tr>
<tr>
<td>16' Tunnel</td>
<td>2</td>
<td>5</td>
<td>-</td>
<td>.286</td>
</tr>
<tr>
<td>West Shops</td>
<td>0</td>
<td>4</td>
<td>2</td>
<td>.167</td>
</tr>
</tbody>
</table>

Touchdown pass from Axel Mattson to Hank Fedziuk. After playing in their own territory, the Eight-footers took the ball in mid-field and worked it to the Tank ten-yard line on a series of short passes from Mattson to Vincke. From there, they went on to score. The attempted conversion was blocked.

line in the third quarter, Cartobiano intercepted a PRT lateral pass and went 30 yards for the score. The try for the point failed. PRT led 7-6. Two other passes, Mastrocola to Cohen and Mastrocola to Vollo were good for scores in the final period. Mastrocola likewise dropped kick both extra points. The boys from the 16' tunnel put up a much better fight than the score indicates, but just seemed to lack the scoring punch.

8' H.S.T. 6; Tank 0:
Desperately staving off repeated Tank offensives in the first three quarters, the 8' H.S.T. capitalized on its only sustained drive into Tank territory with a last quarter

Library News

The following new books have been received in the Library and are available for charging out for a four-day loan period. These books must be called for and returned personally by staff members.
Shoenberg, D. Superconductivity.
Southall, J. P. C. Mirrors, Prisms, and Lenses.
Syng, J. L. Geometrical Optics.
Thompson, M. deK. Theoretical and Applied Electrowchemistry.
Thomson & Thomson. Conduction of Electricity through Gases.
James, Glenn, ed. Mathematics Dictionary.
Kron, Gabriel. The Application of Tensors to the Analysis of Rotating Electric Machinery.
Daugherty, R. L. Hydraulic Turbines.
Moulton, F. R. Differential Equations.
Planck, Max. General Mechanics.
Planck, Max. Mechanics of Deformable Bodies.
Planck, Max. Theory of Electricity and Magnetism.
Planck, Max. Theory of Light.
Planck, Max. Theory of Heat.
Rideal, E. K. Introduction to Surface Chemistry.
Bacher & Goudsmit. Atomic Energy States.
Brown & Marco. Introduction to Heat Transfer.
Clark, George L. Applied X-Rays.
CAN YOU SPOT HIM?

The Bulletin is starting a new feature. Try your hand at it by seeing how quickly you can identify the person referred to in the accompanying story, by means of the clues offered. Check your answer on page six, but give it a trial before you look.

EARLY LIFE: He was born in Hampton 32 years ago and has been working at the laboratory for the past 18 years. He recently celebrated his fifth wedding anniversary and his wife also employed there has been a married man for 12 years. He became interested in airplanes and built his first model at the age of 15. He then had a burning desire to become a pilot. The NACA Civil Service regulations forbade the hiring of active five-year-old model makers so he pursued this hobby in his own way. During his high school days, he organized a model club, several of whose members are now employed here. His models were noted for their revolutionary designs, and he has actually flown himself in a colorful paint job. Which led many people to believe that he was colorblind.

About this time, he also established a small printing business which took off.

LABORATORY LIFE: He came to work here in 1930 for the Maintenance Section. He has since worked in the Aerodynamics Divisions and is now employed in Technical Service. He has been occupying his present position for the past two years. Previously, he was the head of the Prop Shop and the Dynamic Models Section.

PERTINENT PERSONALS: He designed his own home in the Boulevard section and likes it so well that he has difficulty in getting up to leave it in the morning. As a result, he and his spouse are awakened regularly by a telephone call from Margaret Young. According to his wife, his only fault is that he won't take a vacation. According to his office staff,

LIFE AT THE LABORATORY

MISCELLANY: Kaz Czarnecki, mill-scale, returned to his home Monday from Dixie Hospital. The large cloud of dust which prevailed over the Army District Sunday, was part of a new clean-up program at Club 55. The boys were beating rugs, scrubbing woodwork, and moving lawns. Now, they can rest for five more years. Reproduction welcomes Helen Supter of Phoenix to its department. Darlene Squires, Stenographer, suffered a fractured skull in a fall at her home last week. She is in the Dixie Hospital. David Goldenbaum, Tank, plans to leave soon for Daytona Beach, Fla., to regain his health.

Karl Tindal, Structures, is at home after spending two weeks in the hospital. Jerry Tepilts has decided to live a quiet, bachelor, life since Hazel Phillips' GL heart beat. Lyle, Walter Stroud, is being transferred to Fort Monroe.

Billy Warren, AMT, had his sister, Mrs. J. S. Poirer of Sumpter, S.C., as a weekend guest recently. Marilyn Lawler, Day payroll, celebrated her second wedding anniversary last week.

LINDEN IN BLOOM: Genove Hendley, Impact Basin, returned from her home in Floyd, Va., where something very new was added to her present home in Floyd. Cliff Link and his bride have returned to their home in Hampton after returning home to Allentown, Pa. David Ullman, Photo Lab, is back at work after his marriage. Shirley Shaulin, Information, and Walter Bartlett, PRT, are settling down after their wedding Nov. 27.

LET'S HAVE A PARTY: After the Virginia-Carolina game in Norfolk last Saturday, Janie Burroughs, head of AWT computers, entertained at a buffet supper at her home in Pamlic for Octa Church, Marge Bullock, Sarah Whitley, Margaret Lambert, Billy Warren, Julia Poirier, Lib Garner, and Becky Boykin. Margaret, Oleta and Marge enjoyed a night of dancing at the Palmar... The Administrative Office had a get-together last Saturday night in Buckroe. Hostesses were Ruth Perryman, Ruth Webb, and Betty Ludwig. Dancing in the attic was enjoyed by all. Impact Basin personnel entertained themselves at an enjoyable bowling party at Health Center in Newport News Nov. 24. Jack Westfall took honors with high score... Dick Braig, Maintenance, was the life of the Original Club party in Newport News Saturday night. He went dressed as Daisy Mae and everyone agreed he was the best looking "girl" there...

TOUGH LUCK: Margaret and Bob Swanson, Stability Analysis, both had accidents while horseback riding recently. Margaret, who returned to work last Monday, after three weeks of illness, is back in the hospital with a leg broken in five places. A horse she was riding was in collision with a truck. Margaret will be at Burton Hospital for the next five weeks. Friends say, the doctors have done a beautiful engineering job on her injured leg. Bob suffered head injuries when he was thrown while mounting a horse recently, but is back at work now.

Keep Buying Bonds
O’Dair And Potvin

Missing In Action

Two former Langley Laboratory employees, James Robert O’Dair and Arthur Potvin, are reported to be missing in action.

Potvin, a staff sergeant in the Air Corps, has been missing since a bomber raid over France on Armistice Day. He had previously been awarded the Distinguished Flying Cross and the Air Medal for his raid on Rumania’s Ploesti oil fields. He left LMAL in August, 1942.

O’Dair, who entered the Air Corps on May 7, 1942, received a commission as second lieutenant. He was a bombardier and was reported as missing in the Aleutian Islands. He was an employee of the Dynamic Model Shop, having come here on Nov. 7, 1941. He was 20 years old and his original home address was 114 Van Deusen Street, Madison, Wisconsin.

Better Response

To Toy Program
Sought By Lewis

Leigh Lewis, who heads the committee in charge of collecting old toys for repair and distribution at Christmas, pointed out yesterday that collections have been very slow to date and urged that anyone who has any toys to donate do so as soon as possible.

A few toys have already been deposited at the East and West Area Cafeterias, but up to now, they have been rather slow in coming in. Mr. Lewis points out that it is necessary to have the toys now in order that they may be properly reconditioned by patrons of the Industrial USO.

Bill Poythress, of the West Machine Shop, is assisting Lewis in the drive.

ELECTRICITY IS DANGEROUS!

Even 110 Volts May Be Fatal!

VACATION RHAPSODY

RETURN OF THE NATIVES:
Alpha Gay, Full Scale, from home in Richmond; Helen C. Stevenson, Impact Basin, from Goldsboro, where she visited her brother, Captain Colton at Seymour Johnson Field; Christine Reynolds, Payroll, from New Jersey where she visited her brother in service; Mary Latshaw, Bonds, from home in Royersford, Pa.; Marie Ciulla, Bonds, from New York; Kay Watson, Bonds, from Pennsylvania; Tiny and Margaret Hutton, from a tour of Carolina; Edith Justice, Administrative Office, from home in South Carolina; John Boshar, AID, from Massachusetts; Roxanna Yancey, AID, from South Carolina; Bill Chappo, AID, from Connecticut where he attended his sister's wedding; Bill Aiken, AID, from Washington; Evelyn Bowers, East Area Computing, from home in Sanford, N.C.; Gus Boughan, Structures, from home in Missouri; Gordon Fisher, Structures, from Baltimore; Jane Perry, from home in North Wilkesboro, N.C.; Doris Avery, Reproduction, from a week-end with her husband in New York.


PHONE NUMBERS: Projection booth, next to auditorium in Administration Building, 207; and Construction Purchase stenographers changed from 309 to 261.

SPOTTED....

In case you didn’t know, the fellow referred to in "Can You Spot Him" on page five is Charles A. "Tom" Hulcher, Apprentice Administrator. His new hangout is on the second floor of the Technical Service Building in the space vacated by the Reproduction Section.
USO SPONSORS DANCE DEC. 18

The Industrial USO Center in Hampton, the local war workers' "night club," will continue its Holiday Inn theme on Dec. 18 with a Christmas dance.

This will mark the second holiday dance in recent weeks, the first being the Thanksgiving Frolic which was considered by USO officials as "highly successful".

Bill Solomon, 16-foot Tunnel, said refreshments will be served and LMAL staff members are invited to attend the affair.

USO officials suggest that Laboratory employees make the center their headquarters during the Christmas season.

STAFF WILL ELECT GREEN COW EXECUTIVE GROUP THIS WEEK

One of the fairer sex and 11 of the male element have been named as the nominees for the executive committee of the Noble Order of the Green Cow.

The nominees are: Sid Patterson, Impact Basin; Joe Burke, Personnel; Bill Craig, Administrative Office; Benny Hobbs, 19' Tunnel; John Houbolt, Structures; Tiny Hutton, Personnel; Charlie Kelly, Full Scale; Leigh Lewis, apprentice Administration; Ed Palazzo, S' H.S.T.; Toots Prospere, Free Flight; and Ben Vogel, Engineering.

Four of the group will be elected to succeed the present committee, which includes, T. Melvin Butler, chairman, Axel Mattson, John Garvin, and Frances Winder. The one who receives the most votes in the current election will assume the duties of chairman.

All members of the Laboratory staff are entitled to vote for any number of candidates up to and including four. Ballots marked with more than four candidates will not be counted.

A total of 472 nominating ballots were cast for 22 persons. As stated in last week's

STILL GOING UP!

Realizing more of the effect of the Third War Loan campaign, the Laboratory's percentage in the payroll allotment plan for War Savings Bonds took a rise of nearly two per cent. The percentage allotted during the month of November was 13.69 as compared with the September figure of 11.76. The percentage in October was 13.05.

The percentage participation felt an even greater rise. 97.58 is the figure for November as compared with 94.56 in October. October found 2,263 employees on the payroll with 2,140 participating while for November, 2,224 out of 2,284 were contributing.

The total payroll for the month passed was $449,551.36 with $61,570.89 going into bonds for an average allotment of $27.68.
PERSONALS: Beta Church, AWT, is spending the week-end at home in North Wilkesboro, N. C. . . . John McKee AWT, is back from a flying trip to Pittsburgh via P. C. Airlines . . . . Clarence Gillis, AWT, is at home in Pittsburgh . . . . Virginia Perry, AWT, has returned from a visit to her home in Edenton, N. C. . . . Margaret Plumlee, East Area Computing, is visiting in Celina, Tenn. . . . Frances Haas, AID, has returned from Charlotte, N. C. . . . Sid Alexander and Howard "Pappy" Cole, 19-foot Tunnel, are back from New York . . . . Nancy Wall, 16-foot Tunnel, is at home in Leakesville, N. C. . . . Mary Nester Austin, Stability Research, is enjoying a sojourn at her home in Roxboro, N. C. . . . Clint Brown, AFR, is in New Jersey . . . . John Houbolt, Structures, has returned from a business trip to New York . . . . Si Diskin, Structures, is visiting his home in Baltimore . . . . Thelma (Punk) Stewart, Impact Basin, visited her sister in Portsmouth last week-end . . . . Margaret Corbett, Stability Tunnel, is back after a visit in Durham . . . . Doda Mae Smith, Head of Stability Tunnel Computers since Margaret Anderson, former Head left to join her husband at Camp Stewart, Ga., is visiting her parents in Erie, Pa. . . . Bob Mendelson, Stability, is spending some time at his home in Detroit.

WASHINGTON OFFICE WOOS AND WINS: Mr. Cupid has gone to Washington and since then life in the Washington Office has been nothing short of terrific. Tom Smull, formerly of AID and now in the Coordination Office, started the ball rolling when his engagement to Miss Roberta Spidel of Chevy Chase, Md., was announced. Milton Ames, former AWT engineer, jumped on the bandwagon a week later when his engagement to Miss Martha Nuland, Mr. Helms' secretary from sunny (?), California, was announced. Bill McCann, ex-MLAL power-plant specialist now in the Coordination Office, provided the next week's cigars following the arrival of a daughter, Sheila. Not to be outdone, Dick Chandler, former FRM engineer now in the Coordination Office, added to the dizzy pace with the announcement of his engagement to Miss Clara Sasscer of Washington, D. C. It has been rumored the boys wanted to get the jump on leap year — Where's Ulmer!!

OFFER BLUEPRINT SERVICE IN MLAL'S WEST AREA

Blueprint service is being offered to all activities in the West Area, according to an announcement by Robert E. Mixson, Head of Reproduction.

The service is located in the Warehouse Building, adjacent to the Cafeteria, and will be operated by Mrs. Dorothy Johnson and Mary J. Williams. The phone number is 205.

LIBRARY NEWS

The following new books in the Library are available for charging out for a four-day loan period. These books must be called for and returned personally by staff members.

Hughes & DuBridge. Photo-electric Phenomena.
Pauling & Goudsmith. Structure of Line Spectra.
Slater & Frank. Introduction to Theoretical Physics.
Koller, L. R. Physics of Electron Tubes.
MacMillan, W. D. Theoretical Mechanics. Static and the Dynamics of Particle.
Meadowcroft, Norman. Aircraft Detail Drafting.
Millman & Seely. Electronics.
Monk, G. S. Light; Principles and Experiments.
Operation of Aircraft Engines.
Craig, Homer V. Vector and Tensor Analysis.
Paulincer, T. P. Introduction to Aircraft Design.
Fink, Donald G. Engineering Electronics.
Fleming, J. A. Terrestrial Magnetism and Electricity.
Frank, N. W. Introduction to Mechanics and Heat.
Haurwitz, Bernhard. Dynamic Meteorology.
Houston, W. V. Principles of Mathematical Physics.
"GREEN COW" ELECTION

(From page 1)
Bulletin, the 12 with the highest number of votes were chosen as the official nominees.

Green Cow officials have expressed a strong desire to have more members of the staff vote in the election, in order to realize the true expression of the employees.

An official ballot is provided in this issue of the Bulletin for the use of all voters. Only one person may vote on each ballot. Each nominee may be voted for only one time on each ballot.

All ballots should be sent to the Bulletin Office where they will be kept in a sealed box until they are counted at 4:45 p.m., Tuesday, Dec. 14. All ballots must be in the office by that time in order to be counted. Regardless of what time they are sent, they will not be counted if they arrive after that time.

Everyone is urged to read the instructions for marking the ballot which is provided below.

CAN YOU SPOT HIM?

Read the clues carefully before checking answer on page six.

VITAL STATISTICS: This partially bald widower was born in New York City on Sept. 24, 1882 and has spent the past 37 years in Hampton.

EDUCATION: His college life was spent at Columbia University, where he received his Ph.D. in 1906. Through the efforts of his dean, he received an offer to teach at Hampton. The principal of the Hampton school was visiting in New York and asked our hero to have dinner with him at the Century Club. More thrilled with the prospect of the club than with the teaching offer, he went. The following fall found him in Hampton. It was then that he started thinking in the terms of a small town man rather than the big city boy.

FAMILY AFFAIRS: He met his future wife on an excursion to Buckroe Beach one afternoon. It happened that she was the secretary to the vice-principal of the school and the first letter that she had written was one requesting her future husband to come to Hampton as soon as possible. The two were married four years later. The turbulent thirties saw the death of his wife, in 1934, and his retirement from his position of Director of the School of Education at Hampton Institute, in 1939.

LABORATORY LIFE: He emerged from retirement, July 20, 1942, to come to work at the Laboratory and to head that phase of work that is chiefly concerned with keeping our essential male employees on the job.

PERTINENT PERSONALS: He lives with his only daughter in Wythe Parkway...is a member of Phi Beta Kappa, Phi Delta Kappa, and Kappa Delta Pi, all of which attest to his prominence as a scholar and as one of the foremost authorities on the education of the American Negro...for the past 37 years has been a special correspondent for the "New York Times"...is doing a yearly article on the education of the American Negro for the "American Year Book"...wrote over a million words for the "Southern Workman" while at Hampton Institute.

PROBLEMS OF AN ILLUSTRATOR

"All we want is a simple little sketch of the whole assembled airplane. Could we have it in about an hour?"
COORDINATION OFFICE SERVES REAL NEED

Two blocks from the Pacific Ocean, in Santa Monica, Calif., a 12-story office building towers over the rest of the city. On the tenth floor of that building is located the NACA's Western Coordination Office, the beginning of a work of which is of interest to LMAL personnel.

In the fall of 1939, Dr. George W. Lewis, Director of Aeronautical Research, sent Russell G. Robinson to the west coast to get construction of the Ames Aeronautical Laboratory under way and to carry out a new plan of the Committee to establish a closer liaison between the aircraft industry and the NACA.

Aircraft Industry Grows

The idea behind this closer liaison was that the aircraft industry was beginning to grow by leaps and bounds and was, of course, running into all sorts of engineering and design problems. Furthermore, many of the aircraft companies were building wind tunnels and doing a good deal of aerodynamics research of their own. The NACA was also expanding.

If the aircraft industry could be informed more fully of the NACA work and research facilities, which might be used to help solve the industry's engineering problems, and if the NACA, in turn, could learn something of the independent research and of the needs of the industry, much mutual benefit could be derived. The best way to accomplish such an exchange of information would be through personal contact.

The Coordination Office was therefore established; and its present head, the Chief of Research Coordination, reports directly to the Director of Aeronautical Research. In brief, the Chief of Research Coordination and his staff were to be investigators for and advisors to the Director of Aeronautical Research. In 1939, when the Coordination work was begun, the staff of the Coordination Office consisted of Mr. Robinson and E. G. Whitney, now assistant executive engineer of AERL at Cleveland. Mr. Robinson's burdens were considerably lightened early in 1940 when E. R. Sharp, now Manager of AERL, and John F. Parsons, arrived to take over construction of AAL. (At the same time, Mr. Whitney was holding down the eastern Coordination activity in good fashion).

S. Paul Johnston, former editor of "Aviation", was in January, 1940, appointed Coordinator of Research (the original title of the head of the Coordination Office) to work out of the Washington Office as supervisor of all Coordination work.

Hartman Appointed

As the year grew, so did the aircraft industry, the Coordination work, and the NACA. Work on the new Aircraft Engine Research Laboratory at Cleveland was started, and Mr. Whitney was withdrawn from the Coordination Office in June and assigned to the new project. He was replaced in the Coordination Office by Paul Johnston, who had been with Oscar W. McCann, who had been with Mr. Robinson to Washington. Hartman, who was associated with the Research Tunnel work, was sent to the west coast aircraft industry, first of June, over the western work.

As an industry activity of the staff as a whole mentioned the past period from Jan. 1, 1941, to Dec. 31, 1941, 780 visits were made to airmen manufacturers, Aeronautical manufacturers, and AERL by LMAL personnel.

Tips: In an agreement between AERL and the LMAL Bulletin, except to all the people exchanged prior to this agreement, the article on the Digest of one recent issue of the LMAL Bulletin.
LIFE AT THE LABORATORY

PARTY TIME: The 19-foot Pressure Tunnel--"Club 199"--enjoyed a dance Dec. 10 at the Chamberlin Country Club....

AWT's Wreckcreation Committee sponsored a skating party at the Jeff-Hlar Rink Dec. 6. Excluding the bumps and bruises, fun was had by all, especially Marge Bullock who spent most of the evening "on the floor". They climaxed the evening with a bit of harmonizing in a local restaurant....

SEASON ENDS: This touch football the boys have been playing for the past several weeks certainly is no soft touch, judging by the injury list compiled during the season. But everybody apparently had a good time, especially Engineering Section which came out on top. Some of the boys made pretty sad looking sights on Monday mornings, inspiring the cartoon at right. Among the latest victims were Bill Hickman, Structures, who suffered a dislocated elbow in a game against AFR, and Andy Hamstkylo, Tank, who twisted a shoulder muscle in a tussle with the West Shops. In a post-season contest, Tank No. 1 and Tank No. 2 will meet on Dec. 19. Some of the other teams are expected to issue challenges to their favorite opponents before year's end.

MISCELLANY: Part Deer, Maintenance, was passing out cigars last week. He is the father of a baby girl, Diane, born Dec. 4 at Elizabeth Buxton Hospital. The mother is the former iris Carr of Structures lab....Evelyn Fanbrough, formerly of 16-foot Tunnel, is the mother of a daughter, Jane Ann, born Nov. 27 in Woodson, Tex....Fern Jackson, 16-foot Tunnel, has gone to Alabama to join her husband at Camp Sibert....Any one at AID who goes home for more than three days must bring a box of candy back....Don Talmadge, FRM, will undergo a nose operation at New Bedford, Mass., his home....Marcellus (Phil) Edge, Impact Basin, is growing up. At present he is learning to sit in a chair--at the cost of a chair or two to date plus a few dents in the floor....Gordon F. Harris, Apprentice Administration, is the father of a daughter, Constance Susan, born in Roanoke Nov. 20.

LOVE LIFE: Ralph Schreneull, Engineering Section, was married Dec. 4 in Newark....Louise Mizell, Chief Clerk's Office, is engaged to Joe Parker of Uncle Sam's Navy....Last week-end brought a new name, Mark, to Agnes R. Morrisan, Impact Basin. He's a sergeant at Fort Monroe.

PHONE NUMBERS: Physical Research Office, 332; Physical Research Laboratory No. 2, 331, both of which are located on the second floor of the Administration Building; Illustrators of the Reproduction Section, located on the second floor of the Engineer Lab Building, 206.

FEARS TREND OF TALK ON HELICOPTER

"All this talk that the helicopter is to be flown by everyone from grandma to the tired businessman right after the war, for suburban commuting, shopping and going to the movies, is being so hurtfully overdone that we must call a halt to it."

Those are the words of Grover Loening, chairman of the helicopter sub-committee of the NACA, who told a New York audience last week that it will be at least five or ten years before the helicopter becomes a common family flivver.

"As things stand today, the helicopter is an even more professional apparatus than the airplane and not at all a vehicle to be placed in the hands of the public...." He said helicopter operation requires expert coordination of five separate controls and therefore they are "far less suitable for the use of the ordinary layman than the airplane, and the amount of skill necessary is very much greater than is needed to drive a car."

Safety Aces

A

EVERY PERSON WHO IN THE COURSE OF HIS EMPLOYMENT, RECEIVES AN INJURY, NO MATTER HOW SLIGHT, MUST REPORT TO THE DISPENSARY SO THAT PROPER TREATMENT CAN BE GIVEN AS PROMPTLY AS POSSIBLE.

PAINFUL INFECTIONS OFTEN RESULT UNLESS THIS IS DONE.

Keep Buying Bonds

Thoughts That Pass In The Type: THE MAN WHO IS ON TIME STARTS THE DAY WITH A BALANCE IN HIS FAVOR.
The Engineering Section's touch football team rolled on to the league championship last Sunday by defeating a stubborn FRM team, 13-6. The Engineers' first tally came when Blank intercepted a PRT pass and went 25 yards for the score. The try for the point was no good. The second score came on a pass, Schumacher to Nutter. Blank passed to Defis for the extra point.

Starting the second half trailing 13-0, the boys from PRT set up a score on a pass from Nichols to Keith who took it on the 20 yard line and went to the eight before he was stopped by Blank. Cohen scored the touchdown on a pass from Mastrocola.

AFR 21: Structures 5: The AFR team got off to a slow start, but put together three touchdowns and a safety in the last three periods to down Structures and wind up in second place for the season.

Structures scored first in the first quarter on a pass from Dumbo Dobrowski to Dave Ochiltree. Len Bartone's drop-kick for the extra point was not good.

Clint Brown and Fred Daum were the big guns in the AFR offense. A pass, Daum to Erwin, was good for a touchdown in the second quarter. A recovered fumble in the third period made it 8-6 for the boys from Air Flow. In the fourth quarter, another pass, Daum to Brown, added six more points, and Daum scored on a pass for the final touchdown. Daum passed to Brown for the extra point.

8' H.S.T. 13: FRM 8: Early in the first quarter, 8 foot intercepted a pass at midfield and ran it back to the FRM five. The touchdown came on the old "sleepy" play when Mattson passed to Henry in the end zone. The second score came soon after on another pass by Mattson, this time to Fedziuk.

FRM's first score came on a safety when Luoma, who had intercepted a pass from Reeder, was tagged in the end zone. A pass, Sjoberg to Kleckner, was good for a touchdown. The ball was batted down and bounced off the back of another player before Kleckner caught it.

The second half was scoreless, and ended with 8' H.S.T. in possession of the ball on the FRM one.

Tank 20; West Area Shops 0: After a scoreless first half, Tank took the initiative in the third quarter when Damrotowski passed to Jarvis for a touchdown and to Havens for the extra point. Damrotowski passed to Jarvis for another score in the fourth quarter and Posner converted. With only a few seconds remaining in the game Freihoffner took a long pass from Damrotowski for the final tally.

The disputed game between FRM and West Area Shops will be played Sunday, Dec. 12, at Hampton at one o'clock. The game will be played between 16' Tunnel and the 8' H.S.T. will be played at Hampton at 11 o'clock on the same date.

Standings:

<table>
<thead>
<tr>
<th>Team</th>
<th>Won</th>
<th>Lost</th>
<th>Tied</th>
<th>Pct</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engr. Sect. 6</td>
<td>6</td>
<td>1</td>
<td>1</td>
<td>.813</td>
</tr>
<tr>
<td>AFR</td>
<td>6</td>
<td>2</td>
<td></td>
<td>.750</td>
</tr>
<tr>
<td>PRT</td>
<td>4</td>
<td>3</td>
<td>1</td>
<td>.563</td>
</tr>
<tr>
<td>Structures 4</td>
<td>4</td>
<td></td>
<td></td>
<td>.500</td>
</tr>
<tr>
<td>8' H.S.T. 3</td>
<td>3</td>
<td>3</td>
<td>1</td>
<td>.500</td>
</tr>
<tr>
<td>FRM</td>
<td>3</td>
<td>4</td>
<td></td>
<td>.429</td>
</tr>
<tr>
<td>Tank</td>
<td>3</td>
<td>5</td>
<td></td>
<td>.375</td>
</tr>
<tr>
<td>16' Tunnel 2</td>
<td>4</td>
<td>1</td>
<td></td>
<td>.359</td>
</tr>
<tr>
<td>West Shops 0 5</td>
<td>0</td>
<td>5</td>
<td>2</td>
<td>.143</td>
</tr>
</tbody>
</table>

8' H.S.T. Tunnel game was a tie.

SPOTTED...

The gent in the spotlight on page three was, as if you didn't know, Dr. William Anthony Aery, head of the Selective Service Section.

CIRCULATION NOTE: Did you send anything through the Laboratory's circulation system today? If so, was it properly addressed? If there were several papers belonging together were they securely fastened? Please keep these important thoughts in mind.

NEED MORE DRIVERS TO SHARE RIDES

The "share the ride home" service, started last week by the Bulletin, has met with fair success in assisting members of the Laboratory staff in getting rides home for the Christmas holiday season.

Eight vacancies have been listed in cars bound for various points, and 22 persons have asked for rides. Three of these have been arranged, one to Fredericksburg, one to New York, and one to Detroit. At present the greatest demand for rides is to North and South Carolina and points south as far as Florida and Alabama. Anyone who is interested in driving to Boston could have his car filled on a moment's notice.

Vacancies exist in cars bound for New York, Newark, and Fredericksburg.

Anyone looking for a ride or having vacancies in his car is asked to call the Bulletin Office, 376, at his earliest opportunity.

Bowlers Here Issue Challenge To AERL

A group of ten pin bowlers of LMAL challenges a representative team from AERL in Cleveland to a Postal bowling match.

Mike Panz, West Sheetmetal Shop, believes "a good contest would result even though the two teams were many miles apart at the time".

Mr. Panz makes the challenge on behalf of himself and four others, who are considered among the best bowlers at LMAL: Fred Podgson, Carpenter Shop; William Morgan, Engineering; Fred Taub, West Machine Shop, and Lester Reynolds, Instrument Lab.

Any other bowlers at the Langley Laboratory who have an average of 175 or better and who want to take part in the proposed contest may communicate with Mr. Panz.
THIRTEEN GET HOLIDAY RIDES

The Bulletin's "share the ride home" service has met with fair success in finding rides home for 13 employees who would have been unable to make the trip because of the request that civilians not use public transportation during the holiday season.

Rides have been obtained for points as far west as Detroit, as far north as New York, and as far south as Winston-Salem. Vacancies still exist in cars bound for Winston-Salem, New York, and Washington.

Any persons going west, either in the direction of Tennessee or Chicago, or going south through South Carolina or Georgia, are asked to list their cars with the office. There are quite a number of employees seeking rides in those directions.

Farren Visits Lab

Henry J. E. Reid, Engineer-in-Charge, and several other Langley Laboratory officials, attended the seventh Wright Brothers Lecture Dec. 17 in Washington, commemorating the 40th anniversary of the first airplane flights by Orville and Wilbur Wright at Kitty Hawk, N. C.

The lecture was delivered by William Scott Farren, Director of the Royal Aircraft Establishment in England, who discussed "Research for Aeronautics—Its Planning and Application." The English official visited LMAL during the past week prior to giving his lecture in Washington.

New Green Cow Group Includes Craig, Kelly, Batterson, Hutton

Bill Craig, Administrative Office; Charlie Kelly, Full Scale Tunnel; Sid Batterson, Impact Basin, and Tiny Hutton, Personnel, were elected to the Noble Order of the Green Cow in the election held Dec. 11 through 14. Craig was elected chairman by virtue of receiving the most votes.

A total of 1138 ballots were cast in the largest election in the history of the Laboratory. Of these, five were thrown out because they were improperly marked.

Craig received 591 votes and Kelly was second with 521.

CONGRATULATIONS!

Last Thursday marked the twenty-sixth anniversary of the day that Walter Reiser, Head of Maintenance, entered the government service.

Mr. Reiser started to work Dec. 16, 1917, for the old Bureau of Steam Engineering of the Navy Department in Washington.

He stayed there until 1920, and then went to two other government posts before coming to the Laboratory on June 8, 1923.

NEXT ISSUE DEC. 23

The Christmas issue of the LMAL Bulletin will be distributed on Thursday, Dec. 23. This means that our deadline for accepting contributions for that issue will be Monday night or early Tuesday morning.

Present plans are to print an eight-page edition.
Let's Cooperate

A great deal of confusion has been caused at the telephone switchboard recently because of personal calls. The telephone operators are not able to diagnose the trouble and put their fingers on any particular part of it, mainly because it comes in big bunches. One point among their impressive list is the reporting of sick leave. Some employee is always coming back to work after a day's illness and declaring that he is not sick. He has his landlady or sister or someone else called in and reported it; however, there is no record of the call. Here are some of the reasons why. First, a great many people try to call Langley Field and then ask for the NACA. It can't be done that way. The NACA has its own switchboard which can be reached by calling Hampton 6341.

Next, there seems to be a rather popular misconception that the inside telephones are connected with the outside exchange. This is not so. They are two separate exchanges, the former being used for calls inside the Laboratory, and the latter being used as a connecting link between the Laboratory and the outside world. As a result of this idea, the following story can usually be told.

Someone calls 6341, gets the operator, and asks for extension 245. She is informed that there is no extension 245, and is asked whom she is calling. She says that she is calling the Spin Tunnel. When she is told that they do not have an outside telephone, she hangs up without saying what she wanted. Thus, nobody is not reported as being sick. This story also illustrates another failing of many employees, the idea that they should report sick leave to their section. It is reported to the section by the telephone operator on duty, but only after she is properly informed.

The correct method used in reporting sick leave is this. Call, or have someone call, Hampton 6341. When a tired voice says, "NACA," tell her your name, your section, and the fact that you are sick. She will then ask who is calling, please. If it's you, say so; if it's someone else, have him or her say who it is.

Finally, employees are reminded that the laboratory's outside telephones are not to be used for personal calls, either outgoing or incoming. There are only four outside lines serving the business needs of the organization and it is imperative that they not be tied up for personal calls. Except in cases of extreme emergency, such as sickness, accidents, or death, there are no exceptions to the rule.

The following new books in the Library are available for charging out for a four-day loan period. These books must be called for and returned personally by staff members.

Richtmyer & Kennard. Introduction to Modern Physics.
Reark, R. J. Formulas for Stress and Strain.
Spilhaus & Miller. Workbook in Meteorology.
Slater, J. D. Introduction to Chemical Physics.
Smythe, W. R. Static and Dynamic Electricity.
Williams, S. R. Magnetic Phenomena.
Younger, J. E. Airplane Construction and Repair.
Zemansky, M. W. Heat and Thermodynamics.
Annual Tables of Constants. (some back volume. In French and English).
Compton & Allison. X-rays in Theory and Experiment.
Gardner & Barnes. Transients in Linear Systems.
Knapp. Basic Physics for Pilots and Flight Crews.
Davis. Empirical Equations and Nomography.
Sverdrup, Johnson, & Fleming. The Oceans.
Mack & Martin. The Photographic Process.

* BUY U.S. WAR BONDS
WRIGHT BROTHERS: THEIR DREAM CAME TRUE

Cold December winds whipped the waves sullenly against the barren shoreline. Lonely gulls glided cautiously above the white caps, their attention directed to a bit of human activity on a sand dune not far away, where a history-making event was about to take place.

Two enthusiastic young brothers, eager to spend Christmas at their home in Dayton, Ohio, were confidently warming up the motor of their strange-looking contraption, carefully checking wind velocity, and completing the track from which the craft was expected to take off and fly through the air.

Orville Makes First Flight

Presently all was in readiness. The younger of the brothers, Orville Wright, took his place at the controls of the machine. Lying face down, he smiled hopefully at Wilbur Wright, who stood in the sand at the right, holding a wing to balance the craft on the track as it started forward against a 27-mile-an-hour wind.

It was easy for Wilbur to remain with the machine till it lifted from the track after a 40-foot run. He watched the craft, moving like an unbroken bronco through the air. Then a sudden dart groundward ended the flight which, though it lasted only 12 seconds, was nevertheless the first in the history of the world in which a machine carrying a man had raised itself by its own power into the air, full flight, had sailed forward without reduction of speed, and had finally landed at a point as high as that from which it started.

Recalls Historic Event

Dr. Orville Wright, a member of the National Advisory Committee for Aeronautics, recalls that the first successful flight ended a little over a hundred feet from the end of the track, or a little over 120 feet from the point at which it rose into the air.

A short time later "Wilbur started on the second flight. The course of this flight was much like that of the first, very much up and down. The speed over the ground was somewhat faster than that of the first flight, due to the lesser wind. The duration of the flight was less than a second longer than the first, but the distance covered was about 75 feet greater."

Describes Other Flights

In describing the third flight that day, Dr. Wright said that, "I was proceeding along pretty well when a sudden gust from the right lifted the machine up 12 to 15 feet and turned it up sidewise in an alarming manner. It began a lively sidling off to the left. I warped the wings to try to recover the lateral balance and at the same time pointed the machine down to reach the ground as quickly as possible. The lateral control was more effective than I had imagined and before I reached the ground the right wing was lower than the left and struck first. The time of this flight was 15 seconds and the distance over the ground a little over 200 feet."

The fourth and last flight that day was made by Wilbur, who covered a distance over the ground of 852 feet in 59 seconds. "The first few hundred feet were up and down, as before, but by the time 300 feet had been covered, the machine was under much better control. The course for the next four or five hundred feet had but little undulation. However, when out about 800 feet the machine began pitching again, and, in one of its darts downward, struck the ground."

World Proves Skeptical

These history-making flights occurred on December 17, 1903, at out-of-the-way Kitty Hawk, N.C. Because the world was not prepared to believe that such a dream could ever be a reality, the event went virtually unnoticed. A couple of newspapers dared to print the story. Most editors ignored it.

But 40 years later all the world knows about the airplane. Blatant headlines tell of the giant air armadas of the Allies, blasting the strength and the spirit of the Axis; Winston Churchill, four decades later, talks of a "great experiment"—the effort to win victory through air power and assure once again the return of peace on earth, goodwill toward men.

America Goes Forward

And as America coordinates its research and production facilities to make Uncle Sam's planes the best in the world, an appreciative nation this week harkens back to that bleak December day 40 years ago on the desolate expanse at Kitty Hawk, where two brothers, imbued with the spirit of adventure and the desire to succeed, met a great challenge and came through with flying colors.
ASKS RETURN OF ENVELOPS

The shortage of paper is becoming increasingly acute as indicated by the lower quality of paper products now available to LMAL. There are believed to be substantial stocks of circulation envelopes which have accumulated in the various units of the Laboratory. This accumulation is natural and providing no more accumulations occur might represent no more than the stock which would normally be used up within the various units. However, in some cases, a supply may be constantly accumulating. As an aid in conserving paper, any office having a surplus supply of envelopes is requested to return this surplus to the Duplicating Section for re-use.

The paper shortage will not last always and it is possible that with judicious handling of the envelopes the Laboratory may be able to avoid the re-ordering of a critical type of paper. This would be a substantial aid to the war effort.

LOIS WILLLS VALEDICTORIAN OF NEWPORT NEWS HIGH SCHOOL

Lois Evelyn Willis, who worked as a clerk in the library at the Langley Laboratory during the past summer, has been designated as valedictorian of the February graduating class of Newport News High School.

The daughter of Mr. and Mrs. H. R. Willis of Stuart Gardens, she hopes to resume her connection with LMAL in February.

LOST: Gold Carnegie Tech school key; somewhere at the Laboratory on Dec. 11. Inscribed on the back is "R. MacLachlan, chapel choir, Men's Glee Club. If found please return to R. MacLachlan, Stability Tunnel.

TELEPHONES: New telephone number of the Safety Engineer's office is 302.

CAN YOU SPOT HIM?

Check the clues below before looking at the answer on page six.

VITAL STATISTICS: This duck hunting engineer first saw the light of day in Chillicothe, Ohio, on Feb. 10, 1905... is married and the proud papa of two boys.

COLLEGE LIFE: He received B.S. degrees in both mechanical and aeronautical engineering at the University of Michigan in 1927. He also left the campus with a trunkful of monogrammed sweaters which were won in football and track. The sweaters have never been worn, because in those days it was not considered the thing to do. He played halfback on two Michigan teams which won the western conference championship and also ran on the mile-relay team which set the Big Ten record that stood until a few years ago. This record, he proudly points out, was broken by another Michigan team.

AS AN ENGINEER: He studied aeronautical engineering because he was interested in airplanes and in flying them.

Honor Your Flag

There has been much discussion recently as to the proper way in which civilians are supposed to observe the lowering of the flag at retreat at 4:45 each afternoon. After consultation with the Base Adjutant's office, we offer the following facts.

Usually a band is present at retreat, and in this situation the bugler plays "Retreat" prior to the playing of "The Star Spangled Banner". If there is no band present, the bugler sounds "To The Colors".

During the sounding of retreat and the playing of the national anthem or "To The Colors" and during the interim all civilians should observe the correct procedure of courtesy to the flag.

Male pedestrians should stand at attention and face the flag. If the person is wearing a hat, he should remove his hat and hold it, in his right hand, over his heart. If the pedestrian is a woman, she should stand at attention with her right hand over her heart.

All traffic should stop and the drivers of all vehicles whether private, government, or public transportation, should alight and show the flag the correct courtesy. All passengers should remain seated.

so, upon graduation, he made application to the Army Air Corps. He was turned down because of his eyes, and the following fall he arrived at Langley Field, the newest in the laboratory's crop of engineers. He was assigned to work in the Propellor Research Section which was just being set up. He was the fourth man to go into the section, the third having been Mel Gough. He spent eight years in PRT, and during that time the NACA cowling was developed in the section. He was then transferred to the office of the Chief of Aerodynamics and spent the next five years as an assistant there. He then moved downstairs to the office where he now holds forth.

SIDE LIGHTS: His desire to learn to fly made him a ready pupil for Bill McAvoy, test pilot at the Laboratory, and soon after his arrival here he started taking lessons. He spent all the money he could get his hands on for instruction, but he accomplished his purpose and learned to fly. He became half owner in a plane with E. G. Whitney, now assistant executive engineer at AERL, and logged quite a few hours. He also taught several fellows here the knack of flying and soloed a few of them.

PERTINENT PERSONALS: He lived at the old "101 Ranch" at the corner of Armistead and Victoria Avenues in Hampton, along with R. V. Rhode, and Floyd Thompson. He married a young math teacher from Hampton High School on Sept. 2, 1931.
FOOTBALL SEASON COMES TO CLOSE

The Laboratory touch football league ended its official season on Sunday Dec. 12 with FRM tying the West Area Shops, 6-6, and the teams from the 8' H.S.T. and the 16' Tunnel playing to a 0-0 deadlock.

The shop team led 6-0 at the end of the first half of their game with FRM by virtue of a pass from Everett to Schatz. The Flight Research boys tied the score in the third quarter when Bill Craig took a Shop punt on his own 35 yard line and lateralled back to "Hunk" Hart who ran 70 yards for the score. Matthews' attempted conversion was wide.

The game between the two tunnel teams was highlighted by the fine defensive play of both. The first part of the game saw both teams try to score via the ground route. Cartabiano led the 16' team with runs of 30 and 40 yards. Luoma's 30 yard run was the feature of the 8' ground game. Axel Mattson took to the air for the 8' team and the aerial game clicked for a short time, but the pigskin refused to be shoved into pay dirt.

The final standings of the league are:

<table>
<thead>
<tr>
<th>Team</th>
<th>Won</th>
<th>Lost</th>
<th>Tied</th>
<th>Pct</th>
</tr>
</thead>
<tbody>
<tr>
<td>Engr. Sect.</td>
<td>6</td>
<td>1</td>
<td>1</td>
<td>.813</td>
</tr>
<tr>
<td>AFR</td>
<td>6</td>
<td>2</td>
<td></td>
<td>.750</td>
</tr>
<tr>
<td>PRT</td>
<td>4</td>
<td>3</td>
<td>1</td>
<td>.571</td>
</tr>
<tr>
<td>Structures</td>
<td>4</td>
<td>4</td>
<td></td>
<td>.500</td>
</tr>
<tr>
<td>8' H.S.T.</td>
<td>3</td>
<td>3</td>
<td>2</td>
<td>.500</td>
</tr>
<tr>
<td>FRM</td>
<td>3</td>
<td>4</td>
<td>1</td>
<td>.438</td>
</tr>
<tr>
<td>Tank</td>
<td>3</td>
<td>5</td>
<td></td>
<td>.375</td>
</tr>
<tr>
<td>16' Tunnel</td>
<td>2</td>
<td>4</td>
<td>2</td>
<td>.375</td>
</tr>
<tr>
<td>West Shops</td>
<td>0</td>
<td>5</td>
<td>3</td>
<td>.188</td>
</tr>
</tbody>
</table>

CHRISTMAS CANTATA: Langley Laboratory personnel are invited to attend the presentation of "The King Comes" (by Stults) at Hampton Baptist at 11 a.m. Dec. 19. Several NACA employees will take part in the cantata.

MEETING: The NACA Janitors Relief Club will meet Dec. 19 at 5 p.m. at the Masonic Hall, North King Street, Hampton.

LIFE AT THE LABORATORY

FAREWELL TO THEE: Heavy hearts are evident on the second floor of the Administration Building and in the FST, due to the departure of Audrey Campbell of the Editorial Office. A fast and furious row of parties preceded her leaving. On Monday, she and Roy Lange were guests at a dinner party at the home of Tiny and Marj Hutton. Viola Ohler was hostess the following night and Evelyn Renfro, Helen Flannagan, and Jean Ellis did honors on Wednesday.

PARTY BOYS AND GIRLS: Duplicating celebrated the birthday of Letitia Cassidy last Monday with the appropriate cake and candies..."Noi's Hummers", the Photo Lab recreation club, sponsored a skating party at the Hygela Roller Rink last Monday. Harry Hamilton, who hadn't seen skates since he quit knee pants, showed great promise as a figure skater. The group later partook of a chicken supper at the Pick-a-Bone.

SUPER STRUCTURES: The Structures Lab lads topped the Tank team 20-0 in a post season battle as a reprisal for an early season defeat. Houbolt, Rossman, Stein, and Ochiltree tallied up the winning points while Zeck, Amole, and Freihofner looked brilliant in defeat.

ILL WINDS: Gene Santi, Tank, is receiving callers at Dixie Hospital following a football accident....C. E. Kline, Engineering Section Head, returned to work last Monday following a week's illness.

NOTES FROM HITHER AND YON: The boys in "Club 55" are entertaining suggestions as to how to remodel their doors so they will fit the new maid, who is built along the lines of a General Sherman Tank. It is rumored about that Charlie Kelly is the least bit scared of her as a result of a run-in concerning a pencil....John Blank, captain of Engineering's football victors, has departed for the duration with the Navy....The Fiscal office girls have a new fascination, the Ouija board. Everyone seems thrilled at what she learns except Catherine Watkins, who doesn't like the language her talks in....Helen Carberg of Reproduction, while heading for the soldier's USO, explained, "Yep! Got to do some early Christmas shopping"....Reproduction's Doris Avery is burning up the travelanes between here and New York visiting her Navy husband.

WEDDING BELLES: Willie Couch, East Area Computer, is tying the knot with armed serviceman Charles B. Gates in Mooresville, N. C., today....Shirley Walker of the Files will become Mrs. Gene Routten on Monday....Frances Winder has left to devote full time to wedding plans and Jack Reeder.

RECENT VISITORS: Dr. George W. Lewis and E. H. Chamberlin of the Washington Office were here last week.

LUCKY PEOPLE: "Fire Chief" Charles Satterfield and Fay Hill, Instrument Service, were the winners of 14 pound turkeys at the Brainbuster raffle last Sunday....Monday was the nineteenth wedding anniversary of Eddie Hart of the Pangar.
**THE GOOD**

Back in the old days when the staff of the Laboratory numbered around 100, back in the early twenties, there existed a rather novel service to the employees.

Joseph W. McManus was then the Chief Clerk, and Lynton Burr and Clyde Lumpkin were working in his office. When the pay checks came down, they were addressed to the individual in an envelope, and the total distribution time was about one hour.

Anyone who desired to have his check cashed before he went home (in those days the bank didn't keep special hours on pay day) could endorse it and send it back to the Chief Clerk's office before two o'clock that afternoon. That's when the fun began.

**Enter Checks In Duplicate**

When the checks started coming in, they were entered on a schedule, prepared in duplicate, which showed the total amount and the number of bills and coins of each denomination that it would take to make the total. When the schedule was complete, totals were made to see how many of each denomination were needed. Then, with the duplicate copy of the schedule in hand, the boys started for the bank, which was open until three o'clock.

The trip in town was often a most adventurous one; the chief reason being the Committee's official car. This vehicle, which had been ob-tained from the Navy, was a World War I model Dodge touring car, which the younger generation will recognize as the forerunner of the convertible sedan. This car had as one of its spectacular features a trick gear shift, in which everything was backwards. When a new man got in and tried to back up, he frequently started forward with a jump and a bounce.

**Get Money From Bank**

As soon as they got back to the office, one of the clerks would start out over the Laboratory, armed with all the bills, which were clipped into individual packages for each man, and in his other hand, a huge bag containing all the change. He then paid off.

**Honesty Prevails**

Occasionally, someone would make a mistake in distribution, and as a result, one person would be underpaid. The boys in the office would never worry, however, for the party or parties who had received more than their share never failed to call in and say that they had too much money.

According to Clyde Lumpkin, the present Chief Clerk, the most astounding feature of the whole system was the trust that everybody had in everybody else, particularly in the office force.

"Yes", Clyde added, "those were the good old days, but them days is gone forever".

**OLE DAYS**

**TRAVELOG**

**BACK AT WORK**

George Reimerl, Structures, has returned from a trip to Wisconsin...FST and Club 55 welcomed Bennie Cocke's return from down home in Jacksonville, Texas...Lois Evans visited her brother at Ft. Bragg last week-end...Gerry Brewer spent some time with his family in Massachusetts...Kaz Czarnecki is back after a recent operation...Margaret Plumlee, East Area Computer, visited her home in Celina, Tenn...Paul Taylor and Melvin Putler have settled back after a brief fling in New York.

**GOING HOME**

The visiting bug has already bitten quite a few and sent them on their merry way...Angie Cartabiano to New York, Ann Zopit to New Jersey, Virginia Smith to Cleveland, Esther Draughn to Martinsville, and Tommy Hollingsworth to Philadelphia where he will attend the wedding of his sister-in-law. Dorothy Crook is with her family in South Carolina and Paul Boeger is at his home in Topeka.

**BUY CHRISTMAS SEALS**

**SPOTTED**

The engineer in question on page three is William H. Herrnstein, assistant to the Engineer-in-Charge.
Though our Christmas will again be overshadowed this year, it will still be merry in a deeper and less materialistic way. Now, throughout the whole world, in the hearts of many, many millions, a great hope lives. For fulfilment they look to us. Our boys are in every part of the world where fighting is taking place. The casualties will be reduced by the help which we are able to contribute through the results of our research work and personal sacrifices. Every EMAL employee should feel the satisfaction of giving direct and necessary support to our fighting forces, and should continue to do his utmost. Nothing else is of much moment until victory is achieved.

At this season I wish to express my sincere appreciation for the interest and cooperation you have shown in the tasks you have been assigned, and to extend to each one a "Merry, Merry Christmas!" and a wish that the next New Year may see the victory won.
HOLIDAY SPIRIT PREVAILS AT USO

The holiday spirit will prevail at the Industrial USO Center in Hampton during the Yuletide season. Frank Long, Director, suggests that members of the LMAL staff, especially those who are away from home, make the USO their headquarters during the Christmas and New Year season.

A Christmas party is planned for Christmas Eve. Each person will be asked to bring a present, worth about ten cents, which will be exchanged among those attending. Christmas Day there will be an open house.

A bridge party will be held Dec. 27. Another movie, "How's About It", featuring the Andrews Sisters and Robert Paige, will be shown Dec. 30.

A New Year's Eve dance will be sponsored on Dec. 31 and another open house will be held on New Year's day.

Train Wreck In North Carolina Described By LMAL Employee

The Atlantic Coastline train sped through North Carolina from the south, its human cargo overflowing into the aisles. One of the passengers was Oscar Seidman of LMAL. He was in the third coach and sat next to the aisle about six seats from the rear.

It was early on the morning of Dec. 16 and Oscar was trying to sleep. As he dozed, thoughts of an accident kept running strangely through his mind. Twice during the day, since the train had chugged out of Miami on its northward run, Oscar recalls feeling the sudden application of brakes and wondering vaguely if the train were about to strike something.

"This Is It"

Now as he felt the brakes being applied again the same thought scattered through his mind. When he realized that his coach was off the track and bumping unevenly over the ties, he thought, "this is it". Suddenly the roof of the front end caved in and folded up. Windows shattered. Luggage from overhead showered down on the passengers, who were sprawled helplessly throughout the coach. The lights blinked out.

Out of the darkness a woman screamed the name of her husband. Two seats behind Oscar a man moaned. In the blackness Oscar felt for his flashlight, discovered it wouldn't See page 2.

Proclaims Jan. 1 National Prayer Day

President Roosevelt has proclaimed Jan. 1 as National Prayer Day. The text of his proclamation follows:

"At the end of the year 1943, which has not only made manifest the devotion and courage of our nation's sons, but has also crowned their efforts with brilliant success on every battlefront, it is fitting that we set aside a day of prayer to give thanks to the Almighty God for his constant providence over us in every hour of national peace and national peril.

"At the beginning of the new year 1944, which now lies before us, it is fitting that we pray to be preserved from false pride of accomplishment and from wilful neglect of the last measure of public and private sacrifice necessary, to attain final victory and peace. May we humble seek strength and guidance for the problems of widening warfare and for the responsibilities of increasing victory. May we find in the infinite mercy of the God of our Fathers some measure of comfort for the personal anxieties of separation and anguish of bereavement."

Give War Bonds -
A Present With A Future
The LMAL Bulletin is prepared and published at the Langley Memorial Aeronautical Laboratory of the National Advisory Committee for Aeronautics, Langley Field, Virginia, in the interest of LMAL employees. Contributions of news and art should be sent to the Editor, in the Administration Building. Telephone: 376.

Editor . . . . . . . . . . . H. Lee Dickinson
Managing Editor . . . . E. McKinley Putton
Associate Editor . . . . Ruth Angel
Art Editor . . . . . . . Ben Vogel
Reporters . . . . . . . LMAL Employees

Let Us Be Thankful

As we prepare to celebrate Christmas and to bid farewell to another year, one which has brought home to us with dramatic fury the deadly seriousness of a world war, let us take to heart the message of President Roosevelt in which he proclaims Jan. 1 as National Prayer Day.

All over the war-torn world the pace of man's daily life has been accelerated. Many of the niceties, the small privileges that had made living so delightfully pleasant have disappeared. Men and women are dying. Families have become separated.

But we in America have been fortunate. So it is only fitting that as we begin a New Year we pause to offer reverent thanks for what we have enjoyed and utter a prayer for the hastening of the day when we may once again have peace on earth, goodwill to all men.

TRAIN WRECK (From page 3)

work. Someone struck a match and held it next the man who was crying. His face was spattered with blood.

Crawls Through Window

Some one picked broken glass from the border of a window. Oscar and a soldier crawled out, then assisted others to emerge from the tangled wreckage. It was a cold, clear night. A blanket of snow covered the deserted countryside.

A stranger named Oscar a baby boy to hold while his mother searched in the wreckage for the youngster's shoes. Every time Oscar tried to turn the boy over to someone else, so he could help care for the injured, the lad would cry and cling to Oscar's neck. Presently the mother came and took the child.

By this time Oscar had discovered that his train had plowed into the wreckage of three cars which had been derailed on a southbound track 30 minutes before. He didn't discover untill later, however, that his coach had been swung completely around during the accident and had sheared off the top of the coach behind. Another coach had jammed crossways through one end of his coach. Oscar estimated that 15 persons in his coach were killed.

Give Aid To Injured

The wreck occurred in a gulley between two high snow-covered embankments. The survivors made a path from the roadway to the top of an embankment by spreading pullman mattresses and ladders on the snow. It was up this path that Oscar and others helped carry the dead and injured to waiting ambulances.

Oscar helped in rescue work from 1:15 a.m., when the accident happened, to 8:30, at which time he left the scene.

CLEVELAND CLIPPINGS

BLOOD DONORS: ARRLites came through with 160 pints of blood on the recent visit of the Red Cross mobile unit. Ray Labadie reached the gallon mark in donations.

CHRISTMAS PARTY: The Nica's are having a gala Christmas blowout in the form of a real old fashioned party at the Lake Shore Hotel on Christmas night.

PATTY BERGS (?): Golf instruction for women employees was started Dec. 7. Charles Sullivan is doing the honors.

LOBBY LINES: Eastman Jacobs, T. A. Harris, and M. N. Seifert visited from LMAL... "Maddy" Gay, his wife and daughter, spent Thanksgiving with the Hampton Fosters... Dana Lee, Mary Cook, and Dr. M. C. Shaw are all trying to outdo the other by displaying photos of their young hopefuls on their desks.

BASKETBALL: AERL has two teams competing in two Cleveland leagues.

HUNTING: Reports from AERL huntsmen indicate that the season on pheasants was unusually good this year.

LIBRARY NEWS

The following new books in the Library are available for charging out for a four-day loan period. These books must be called for and returned personally by staff members.

- New Jersey Zinc Co. Die Casting for Engineers.
- Fink, D. G. Principles of Television Engineering.
- Seitz, P. The Physics of Metals.
- Barrett, Charles S. Structure of Metals.
CAN YOU SPOT HIM?

Check the story below before looking at the answer on page six.

VITAL STATISTICS: This mustached engineer is a Cleveland-born and will be 58 years young on April 27. He is married and the head of "a balanced organization", as he puts it. There are two boys and two girls in the family.

ENGINEERING BACKGROUND: At the age of five, he proudly announced that he was going to be a shipbuilder. During his early youth, he read about experiments being conducted at Cornell under Dr. Durand. These experiments were the towing of model ships in a tank. He was definitely interested, and upon graduation, he applied for the course in Naval Architecture at Cornell, only to be informed that the course had just been removed from the curriculum. He then decided on M.I.T. and spent one year there. Then transferred to the University of Michigan where he received his B.S. in 1909. His early working experience following graduation took him to the Newport News Shipyard and back to the Great Lakes region where he worked on the design of the "See and Sear" which later became our first fresh water airplane carrier, the "Wolverine". He also went to Panama to do some work on the canal.

ENTER AERONAUTICS: War was eminently so he applied for officer's training but that was as far as he got. He was called to Washington to serve as chief engineer of the Joint Army and Navy Airship Board, of which Admiral Taylor was chairman and Dr. Nunnemaker was Secretary. In 1921, he was made Assistant for Lighter-than-Air for the Navy Bureau of Aeronautics. While with this outfit, he had a hand in the design of the Shennandoah, Akron, and Vason. It was he who introduced the idea of housing airplanes inside the airships.

WITH THE COMMITTEE: He came to work for the NACA in 1926 in the Washington Office, and stayed there for three years. He then came to this Laboratory to head one of the research divisions. He has done quite a bit of travelling; in 1928, he went abroad to present a paper on the phase of work that he was heading here at the Laboratory.

SIDE LIGHTS: His greatest envny used to be the chin foliage of Eastman Jacobs and his current mustache, now one month old, is his attempt at rivalry. He can trace his ancestry back to the Mayflower...for 31 years he has been a member of the A.S.C.E. and is also listed on the rolls of the Cosmos Club. Doctors Durand, Zahn, and Lewis are fellow members...he is now wearing his usual winter addition to his wardrobe—spats. This is no attempt at sartorial splendor but merely a successful way to keep one's ankles warm...he is still waging a fight, through not single-handedly, to get the average engineer to realize the great antiquity of the accomplishments of his professional ancestry.

ONE FROM MANY: One of the many experiences of a well lived life is the summer that he spent traveling with a carnival. It seems that his cousin had put some money in the show and sent him along to protect his investment. His job was to look after the money, both incoming and outgoing. One of his roustabouts, and a darn good one despite the fact that he could neither hear nor talk, came in one day and wrote a note saying that he hadn't had a cigarette in several days and requesting an advance on his salary for the purpose. He got back a note saying that there was no money to advance anyone, but he got a small personal donation. A few years later, our friend saw him in Oberlin, Ohio, loading freight. He stopped and the fellow recognized him and came up and shook his hand most vigorously, the look of lifelong friendship in his eyes. Our friend could not understand the curious stares that the crowd of bystanders were giving him. His mother, who was with him, explained that the man had served two terms in the pen for attacks with a knife, and was regarded as one of the most dangerous criminals in town.

NACA BOND RECORD DURING NOVEMBER

<table>
<thead>
<tr>
<th>On Pay Roll</th>
<th>Washington</th>
<th>Langley</th>
<th>Ames</th>
<th>Cleveland</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Number</td>
<td>128</td>
<td>2,284</td>
<td>515</td>
<td>1,467</td>
<td>4,394</td>
</tr>
<tr>
<td>Percent</td>
<td>126</td>
<td>2,224</td>
<td>487</td>
<td>1,341</td>
<td>4,178</td>
</tr>
<tr>
<td>Monthly</td>
<td>98.5</td>
<td>97.58</td>
<td>94.5</td>
<td>91.42</td>
<td>95.08</td>
</tr>
<tr>
<td>Pay Roll</td>
<td>$28,088.15</td>
<td>$449,551.36</td>
<td>$113,178.13</td>
<td>$331,166.84</td>
<td>$921,081.48</td>
</tr>
<tr>
<td>Amount</td>
<td>$3,664.42</td>
<td>$61,570.89</td>
<td>$12,492.25</td>
<td>$34,856.63</td>
<td>$112,584.19</td>
</tr>
<tr>
<td>Percent</td>
<td>13.05</td>
<td>13.70</td>
<td>11.0</td>
<td>10.53</td>
<td>12.21</td>
</tr>
</tbody>
</table>
**LMAL WAGES SAFETY "WAR"**

Powerful Safety Forces in West Area Seek Enemy Wherever He Is As West Model Shop Mops Up

At The West Area Frontier - Dec. 23 - (LMAL) - Powerful forces deployed over the expanse of the West Area this month, seeking the enemy and consolidating positions.

First Sergeant Charles J. Yates reported a minor outbreak at Caseinglue, which was quickly quelled with no losses suffered by our troops. Striking at the enemy, reinforcements were brought up and our position was fortified with gloves, arm covers, and protective skin creams.

Private Annie Lee Cruise was reported injured during a skirmish at Bluepress. A booby trap, in the form of a heavy iron bar which the enemy cleverly caused to drop on the unsuspecting soldier's foot, caught Private Cruise, with the result that she was hospitalized for two weeks.

Significantly, Jointer, the enemy stronghold near Planer, apparently has been temporarily neutralized by installation of a new improved guard, for no major action has stemmed from there. The enemy has the advantage here of terrifying noisemakers, high-speed weapons, and concentrated dust throwers. The booby trap, however, continues to offer the greatest single hazard.

Engaging in some close fighting with the enemy in a flank movement, Private First Class Elizabeth Aldrich was wounded in the hand-to-hand fighting with the enemy lumber division; a splinter put her out of action for two days.

Our troops in this sector are composed mostly of WOWS (Women on Warwork) and under the leadership of Staff Sergeant Caroline Stanley and Corporal Nellie Owens, have chalked up amazing successes on all fronts by continuous attention to all potential hazards and careful instruction of our troops, according to Second Lieutenant William J. Lawton.

Widespread and active patrolling, led by Staff Sergeant Annie Mercer and Sergeant Stella Habura, continued along the West Sheetmetal front. Near the west boundary of this sector, one of our units intercepted an enemy patrol made up of electric hand drills, inflicting heavy casualties upon it at a cost of one soldier wounded, Private Edith M. McCook, who was cut in the hand by a broken drill. She was sent to the rear for three days.

November was a quiet month on the West Machine Shop front. Bad weather was encountered in the east portion and under this cover the enemy attempted a bombardment of hot cutting oil and metal chips, which was promptly halted by an effective fire laid down by Second Lieutenant Robert F. Goodness and Sergeant Lelia Llanesa, who distributed an adequate supply of goggles.

Lieutenant John A. Bergbom received a special citation for his effective work in setting up a supply depot for safety equipment in the West Area.

**SPOTTED....**

Spotted for the week is the skipper of the LMAL Tank, Starr Truscott, the Chief of Hydrodynamics, to whom his staff refers, in best Naval tradition, as "the old man".

LOST: One blue Eversharp fountain pen with owner's name engraved in gold. Reward if returned to Bill Cowling, Construction Drafting Room, Phone 296.

*BUY U.S. WAR BONDS*
CHRISTMAS LIFE AT THE LABORATORY

POST SEASON: A new form of winter sports has taken hold of the lads and lassies from the 16' Tunnel. During the recent snow flurries, a battle ensued between the male and female elements. Snowballs were the méthode de combat and the only casualty was Nancy Wall who caught one on the tip of her nose.

MAIL BAG: We pass on to you this message which came in through the mail last week: "To all my friends at NASA: Wishing all of you a sincere Merry Christmas and allsuccess in the New Year." Private "Benny" Miller, TSAAF. Benny is almost through basic training at Greensboro and says that he ran into Frank Ka, formerly of the East Machine Shop, a short time ago at the center.

PARTYITES: The computers at ANT had their Christmas party last Saturday. Oleta Church, Ruby Womble, and Hazel Redding had charge of refreshments and the group presented Janie Burroughs with a Christmas gift....The PST computers entertained Frances Winter with a luncheon Wednesday and presented her with a going away gift....The 16' computers had a Christmas party at the home of Julia Godwin last Sunday....The Curtis Wright Corporation entertained the staff of the 16' Tunnel, Saturday, Dec. 11, at the Hi-Pat. After the party, the boys at Yingorff Manor had open house....The "backbone of the hangar", the girls of FRM had their little holiday celebration last Wednesday.

RECONDITIONED: New innovations at the Stability Tunnel include acoustic tile on the ceiling of the offices so Tom, Pollingsworth's train of thought won't be broken by computing machines and tunnel noises, and asphalt tile on the floor so Jay Bird can practice his rhumba without disturbing the whole staff.

PROUD PAPA: J. Albert Roy, Structures, has been passing out cigars following the birth of a son, Robert Arthur. Everybody in the lab, especially George Zender, has decided to stick to cigarettes and pipes....Joe Vensel, former test pilot here and now head of Flight Research at AERL, is taking congratulations on his new daughter, Joan.

CONDOLENCES: Our sincere sympathy goes to C. N. Dearborn on the recent death of his mother.

WEDDING BELLES: Martina Willis, Apprentice Administration, is becoming Mrs. John R. Tamm on Saturday. The luck fellow is a lieutenant at Fort Green, N. Y.

ILL WINDS: J. Norwood Evans, dean of the Laboratory's duck hunters, is temporarily receiving callers at his residence, 6 Chichester Road, in East Hampton. Get well, Norwood, the office ain't the same!....Joe Walker is back at Full Scale after an illness of two weeks.

BYE-BYE, NANCY: Vance Underwood, head of the payroll girls said farewell to Laboratory life last Saturday. She received a going away gift of silver from the folks in the Fiscal Office.

BEST WISHES: Peter's wishing for a speedy recovery; to Tom Northen, TFL, from a recent illness.