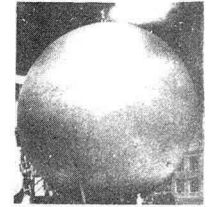
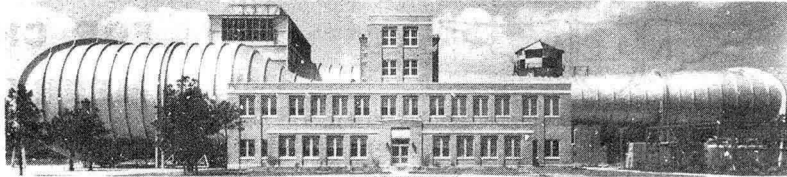
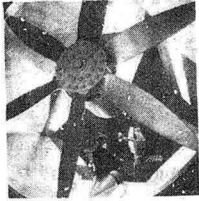


❖ Happy New Year ❖  
1944

# LMAL BULLETIN

Feb. 6413  
Apr. 23  
June 2  
Oct. 26



## LANGLEY MEMORIAL AERONAUTICAL LABORATORY

Issue 1, Vol. 3

Langley Field, Virginia, January 1-7, 1944

Page 1

### NEW IDEAS SOUGHT BY LABORATORY

All new ideas and suggestions relative to the operation of any phase of activity at the Laboratory will be welcomed at all times, it was announced this week by H. J. E. Reid, Engineer-in-Charge.

Mr. Reid stated that while this chiefly concerns suggestions as to research activity, it is by no means limited to that field.

Any member of the Laboratory staff who has any ideas that he wants to express along these lines, can assure their prompt consideration by submitting them, in memorandum form, in duplicate. One copy should be sent directly to the Engineer-in-Charge and the other should be sent to the person's immediate superior.

Section heads, division chiefs, and department heads will make their comments, and these will be forwarded with the memorandum to the Washington Office for consideration there.

In all cases, the person making the suggestion will be advised of the disposition of the matter or the steps being taken.

### *insignia is official*

The NACA emblem as it appears on page two of the Bulletin has been officially adopted as the insignia of the Committee, it was learned this week by a communication from John F. Victory, Secretary.

### Begin Construction Of First Of New Buildings This Month

Allocation of funds amounting to \$8,190,026 for new laboratories and equipment at LMAL has been approved by Congress and the bill signed by President Roosevelt.

All of the projects will be located in the West Area with the exception of a 16,000-horsepower drive, estimated to cost \$655,000, which will be installed at the 8-foot High Speed Tunnel.

The War Department has allotted approximately 101 additional acres of land which is located on each side of the present West Area plot. Plans are under way for a new entrance on Yorktown Road and for new drives. The areas will be connected to the flying field by a runway.

The majority of the build-

### NEW LEAVE WITHOUT PAY RULE IN EFFECT

Effective Jan. 1, 1944, leave without pay taken by LMAL employees will be charged in whole days only.

The time during which an employee is not actually in a leave without pay status, during the day charged to leave without pay, will be placed to his annual leave credit.

A more detailed explanation of the regulations and procedure in regard to leave without pay will be included in a manual of laboratory procedure now in preparation.

ings will be finished and in operation by Sept. 1 of this year, according to present plans. Actual breaking of ground will probably occur first at the site of the proposed Physical Research Laboratory on or about Jan. 18. Other projects will follow as

See page 3

### REGISTRATION FOR CLASSES

#### JAN. 3 AND 5

Registration for night classes under the War Training Program will be held at Hampton High School Jan. 3 and 5 from 7 to 8:30 p.m., in room 105. It is desirable that persons registering for the courses be employed in a field of endeavor closely related to the subject for which application is made.

School will be in session Mondays and Wednesdays from 7 to 9:30 p.m. Classes will meet for one and one-quarter hours each, thus affording registrants the opportunity of taking two courses. Some classes, however, will meet for two and one-half hour periods due to the nature of the material to be covered.

Should the registration for one and one-quarter hour courses indicate it to be impracticable to set up that type of schedule, the War Training Office may establish

See page 6



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 Hutton
- Associate Editor . . . . Ruth Angel
- Art Editor . . . . . Ben Vogel
- Reporters . . . . . LMAL Employees

*Work Hard For Victory!*

Now is the time to make New Year's resolutions. Many are made and almost as many are broken about this time each year. But in the interest of the war effort, there is one resolution which all of us could make and strive hard to keep throughout the year. That is: to carry through with enthusiasm and confidence every project which each individual undertakes during 1944.

The ability to overcome our problems, especially the more difficult ones, is the conquering spirit that has made this nation great. Thomas A. Edison is reported to have made 3,000 experiments to develop the first working model of the incandescent lamp--and only two of these experiments worked. What if he had stopped after the first 1,000 trials?

Let us all in this New Year of victory recognize that sustained thinking, working, and cooperation are the foundation of progress. Let it be impressed upon us that organizations whose staff members work the hardest and think the most invariably lead the parade. By working more--not by working less--we will make an even greater mark in the world of aeronautical research.

★ ★ ★

*A Friend*

This NACA Laboratory has suffered a genuine loss in the recent death of Dr. Harry Dresser Howe, who, through a long term of years, ministered to the needs of many men and women, both by day and by night, despite heat or cold, sunshine or storm.

Dr. Howe was the perennial friend of young people. He shared his personality, as well as his professional skill, with generosity. Wherever he went he carried hope and good cheer as well as the healing art and the surgical skill.

Many individuals, as well as whole families, associated with the Laboratory will be the poorer for the passing of this truly beloved and competent physician--surgeon.

Dr. Howe's contribution, both financial and professional, to the Dixie Hospital will long be shared by young and old alike at this Laboratory and will continue to be a real blessing to all citizens, regardless of race or creed. Many members of the Laboratory staff have already expressed their individual praise of Dr. Howe and now the LMAL Bulletin expresses the corporate thanks for the services of Hampton's first citizen.

## THANKS PERSONNEL FOR CHARWOMEN'S MERRY CHRISTMAS

On behalf of LMAL's charwomen, Mrs. Emma McSmith, their supervisor, today offered thanks to the personnel of the Laboratory for the "merry Christmas" which they brought to her group of workers.

The 27 charwomen assembled in the Engine Lab Christmas Eve to exchange gifts and to meet one another. Then came the surprise, envelopes containing \$3 for each, which were presented by Mrs. Lenore D. Hulcher, counselor-to-women. The money was contributed by LMAL personnel.

Toys which had been collected through the efforts of Leigh Lewis and Bill Poythress were also presented to the charwomen for the younger members of their families.

The group also received other gifts from friends.

## PROCEDURE MANUAL BEING PREPARED

Plans are now in progress for the preparation of a procedure manual for the general use of Laboratory employees.

It is proposed that this manual include a detailed step-by-step explanation of the procedures to be followed in the conduct of business between Laboratory organization units, and with the Washington Office, other NACA laboratories, and outside activities. In fact, all general procedures in effect at the Laboratory, except those within a section, will be included if possible.

Suggestions as to procedure material which should be included will be welcomed. If any employee has a suggestion to make in regard to this, it is requested that he send a note to Mrs. Indaline T. Atkins in the Files Section.

★ ★ ★

Idle rumors were also added to well-founded apprehensions.--LUCAN.

## CAN YOU SPOT HIM?

Read the accompanying story carefully before checking the answer on page six.

**VITAL STATISTICS:** On the spot for the week is a local lad who first saw the light of day on April 10, 1897, in that section of York county which is known as "Bull Island." He is married, and the father of the largest family yet listed in this feature, there being six girls and one boy in his family.

**EARLY LIFE:** Like all Bull Islanders, his youth was evenly divided between two pastimes, fishing for a living and baseball for fun. He spent a good bit of time on the water with his father and their boat brought in goodly supplies of fish, clams, and oysters. It was then that he started on the way to the title of "the fastest oyster shucker in these parts."

**COMES WAR:** Like many of the present day younger generation, he did not want to be drafted into the armed forces, but wanted a chance to select his own branch of service. He had followed the water a good bit and was an excellent man with motors, so he enlisted in the Navy as a Machinist's Mate Second Class. He spent 18 months in the service, mostly on coastwise convoy duty.

**CIVILIAN SERVICE:** Following the war, he returned home and came to work for the Quartermaster Corps at Langley Field in 1921. He worked there for five years, and might never have come to the Laboratory if it had not been for baseball conscious Tom Carroll, the Chief Test Pilot, who was managing the Laboratory's baseball team. In 1926, realizing that the team needed a southpaw to bolster its mound staff, Tom went to Mr. Sharp to see if the Laboratory couldn't use this fellow somewhere. A transfer was arranged, and he soon reported for work to Mr. Sharp. When questioned as to his ability, he had stated that he could run anything on wheels, so he was turned over to Maintenance as a truck driver. Walter Reiser's first comment was, "If he's another baseball player, I won't take him." He took him however, and found in him a good man. His official duties were to haul all freight from the railroad station, haul all trash to the dump, and to maintain all grounds. His career with the ball team was

a brilliant one, his southpaw slants paving the way to many victories.

**PERTINENT PERSONALS:** His greatest ambition is to get work done without hearing any howls, and is proud of the fact that he doesn't hear many now....He is tall and angular and his six foot one inch frame is generally topped with a gray cap:...He doesn't believe in taking much leave, being willing to let the folks who are away from home have the time to see their folks. This idea has proved its worth to him, for in 1938, following an automobile accident, he was in bed for 13 weeks and didn't lose a day's pay...He has been the right hand man at all parties at Oak Point for the past several years.

## RECRUITING PROGRAM BEING COORDINATED

T. Melvin Butler, Personnel Officer, has spent the past week away from the Laboratory on business at AERL and in Washington.

Mr. Butler has been working with officials of the laboratory in Cleveland and the Washington Office in an effort to coordinate the recruiting drives for skilled and technical personnel being conducted by both laboratories.

\* \* \*

**LOST:** Brown pigskin gloves near Administration Building. Barbara A. Moss, 16-foot Tunnel.

## CLEVELAND CLIPPINGS

**FORM COUNCIL:** Culminating weeks of discussion and planning, an AERL Activities Council has been organized, including heads of the various activities groups on the Reservation. Its purpose: to promote cooperation between the groups and to extend help and encouragement where it is needed.

**JOB INSTRUCTION:** In a program outlined to tie in with the Training Within Industry Program of the War Manpower Commission, Job Instruction Training Courses are being offered at AERL.

**LOBBY LINES:** Dale M. Burrows, of the Full Scale Research Division at LMAL, visited AERL recently on official business....Joseph Braig and wife visited the AERL Braigs, Eugene C. and James R. Braig a few days ago....John W. Ebert, Jr., stopped by AERL en route from the West Coast...

**ELECTION:** The NicNACA Social Committee is holding an election for a new group to serve during 1944.

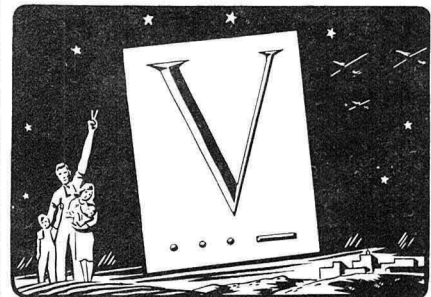
**RIFLE RANGE:** Permission has been granted for the construction of a rifle range at AERL. Work will probably begin within a few days.

\* \* \*

SEND BOND CHANGE NOTICES  
DIRECT TO FISCAL OFFICE

A change in routing of all future memoranda regarding bond allotment changes has been made, effective immediately.

Such memoranda should now be routed directly to the Fiscal Office.



# LIFE AT THE LABORATORY DURING '43

With the beginning of a new year, let's indulge in a bit of retrospect and recall some of the headlines which made Laboratory history during 1943.

January--Victory tax and combined pay-rolls begin....Accumulated leave extended to 90 days....Timesheets to be semi-monthly.... New pay rates established....NACA leads government agencies in bond sales.

February--Apprentice School graduates first class of 14....Cavalier Court housing project nears completion....E. T. Allen, former LMAL test pilot, dies in bomber crash.... Charles G. Haas, Property Clerk, dies.

March--Attendance records begin and Laboratory staff members get accustomed to signing in and out....Accumulation of 90-day leave made retroactive to Sept. 8, 1939....Butler Brothers get appointments, sherwood as Procurement Officer and Melvin as Personnel Officer....Claude F. Ingels becomes Property Clerk....Green Cow starts off season with gay dance....Red Cross drive nets over \$2,000.... NACA observes its 28th anniversary....Leigh Lewis elected chairman of Apprentice social club.

April--Spring term of Apprentice related-study classes begins....LMAL receives Minute Man Flag by virtue of topping other NACA Labs in bond purchases....Sections form softball league....Percy Crain appointed acting head of Electrical Department.

May--Aircraft Engine Research Laboratory at Cleveland dedicated with H. J. E. Reid representing LMAL at ceremonies....NACA insignia in silver and gold adopted for use as lapel pin....NACA Tennis Club inaugurates season.

June--Plan organization of LMAL chorus and orchestra....Avions sponsor dance....LMAL personnel total exceeds 2,000 as compared with 450 employees in 1939....Maintenance sends "smokes" overseas to service men.... Supercharger Section bids farewell to LMAL and says hello to Cleveland....C. W. Lockwood Company gets \$64,375 contract for altering Engine Lab....Model Club names itself "Brain

Busters"....Dr. Joseph Sweetman Ames, retired NACA Chairman, dies.

July--J. J. Lankes, well known woodcut artist, begins employment in Reproduction Section....LMAL inaugurates new work hours.... Bulletin begins weekly publication....NACA commended for research on A-26....Jesse H. Jones, Secretary of Commerce, congratulates Hydrodynamics Division for research on Hughes-Kaiser Cargo plane....Withhold \$25,461.60 from pay checks for first half of month as new tax takes effect....Ernest C. Johnson's new office in Technical Service Building completed....Dale Burrows twirls first no-hitter in softball loop....Charwomen report 100 per cent participation in war bond payroll plan.

August--Grover Loening, consultant on aircraft of War Production Board, named chairman of NACA Subcommittee on Helicopters.... Cafeteria kitchen undergoes "face-lifting"... Lab informed of death in Atlanta in July of Montgomery Knight, former head of AWT.

September--USO formally opens....Mrs. Lenore D. Hulcher appointed as women's counselor....Structures Lab wins softball title.... Employees organize touch football league.... Third War Loan drive begins..."Brain Busters" sponsor successful Hydroplane Championships, with Frank Parmenter giving the most spectacular performance.

October--Igor I. Sikorsky visits LMAL.... Bond drive goes "over the top"....Diskin, Lange, Ramsey, Draley, Brewer, Hart, Bartone, Sweberg, Nelson, Marchal, Neihouse named on Bulletin All-Star softball team....Lab bowling loops disbands as fire destroys Wythe alleys.

November--Carl J. Wenzinger, chief of 19-foot Tunnel Section, called to active duty with Navy....Frank Knox, Secretary of Navy, visits Lab and cites importance of its research program....Girls prepare to move into Ann Wythe Hall....Henry L. Stimson, Secretary of War, adds his commendation to importance of NACA work....Bulletin observes first anniversary.

December--Engineering Section wins football championship....

**TWIRLS FIRST NO-HITTER; IN TIE FOR LOOP LEAD**

no-hitter was turned in led his PRT team to a 2 to

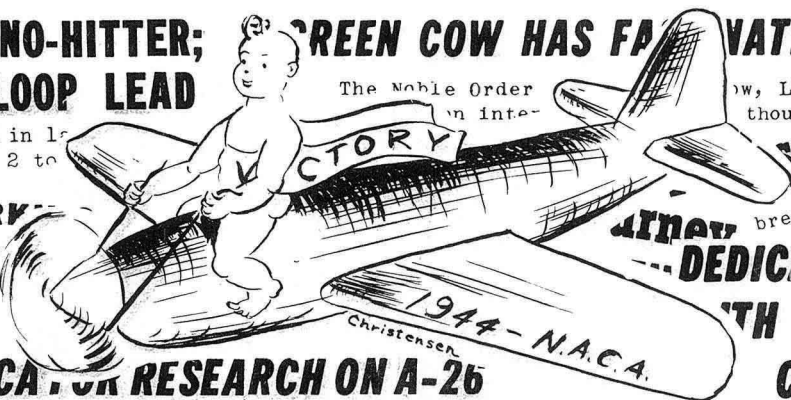
**LANKES WORKS IN REPRODUC**

NEW SLOGAN cent each pay day in ings bonds.

**COMMEND NACA FOR RESEARCH ON A-26**

**GREEN COW HAS FAVORABLE HISTORY**

The Noble Order in inter-... through LMAL social



...ence Wins stent action and a break combined to br... MAL pay che...

**DEDICATE AERIAL CEREMONY CLEVELAND**

## STOCK SUGGESTIONS

A timely suggestion has come in from the Stock Section in an effort to cut down undue confusion in recording charges for material drawn from the stockrooms.

A number of employees, who are employed by one section but are doing some work in another, are charging stock to the latter section. This is not the correct procedure. Stock should be charged to the section where the person is permanently assigned. For example, if a man is assigned to the Maintenance Section and is working in the Generating Plant, he should not draw stock and charge it to the Generating Plant, but charge it to Maintenance, which is the section to which he is assigned.

\* \* \*

It has been noted recently that sections are buying articles of supplies, which are not in the stockrooms, and in turn are furnishing these supplies to other sections as called for. Since it is the function of the Stock Section to keep in stock all supplies that are more or less universally used, it is suggested that when sections do run across such items that they send a memorandum to the Procurement Officer requesting that such items be added to the regular stock list. They are then automatically stocked for general issue and being so stocked can be ordered in a routine matter with a minimum number of purchase requests and overhead expense.

In submitting such memoranda to the Procurement Officer, it is desirable that sections give specifications of stock or a former order number to guide the Stock Section in making up their specifications.

A new telephone has been listed for the Aircraft Loads Division, Seaplane Ramps, which are located in the small building in rear of 8' H.S.T. The number is 343.

## LIFE AT THE LABORATORY

**BYE-BYE, BOYS:** Al Becker and Earl Greubel have left the Engineering Section for other worlds. Earl has gone to his home in Wisconsin and from there will go to Indiana Tech. Al is entering the Army Air Corps. Tommy Holmes, Tank, has returned to his home in Florida.

**ILL WINDS:** Lois Evans, head of the FST computers, is ill at her home in Norfolk. Norwood Evans, Employment, continues under the weather. Ruth Perryman, Personnel, is glad to be back after an eleven day illness.

**MORE PARTIES:** The lab assistants at Structures made merry last Thursday with their Christmas party and presented gifts to Joe Kotanchik and Carl Rossman. Belated wedding gifts were also given, a mahogany end table to the Evan Schuettes and several pieces of crystal to the Harold Crates. A big time was had by all at the Tank last Friday when the section heads received surprise packages from someone in the Claus family. "Uncle Oley" got a pair of worry birds to share his burdens and Jimmy Benson received a white turban to go with his crystal ball.

**PASSING THOUGHTS:** I. Purchase wants to know how to put in a purchase request for a picture of their new pin-up girl, Chili Williams. The staff in the Stability Tunnel want a red lantern to hang in an obvious place on the staging being used in repairing the hallway ceiling. Reason, for the safety of the section head.

**LOVE IN BLOOM:** Dan Cupid ran St. Nick a close race for top honors during the Christmas season. Among the engaged are Kathryn Pyle, Maintenance Office, to Ozzie Lappi, Loads; Anna Zepht and Angie Cartabiano, both of Loads; and Marijean Saunders, Receptionist, to S. A. Smith of Newport News and Deland, Fla. Martha Willis, Apprentice Administration, said, "Yes", to Lieut. John R. Tamm on Christmas night, and Shirley Walker returned to work as Shirley W. Routten, following a Dec. 20 marriage to Gene Routten of Fox Hill. Along the slightly less serious line, Bill Craig, Administration, and Millie De Vine, Selective Service, have returned after spending the holidays with Bill's folks in Pittsburgh and Roy Lange, FST, has come back from Audrey Campbell's home in Charlottesville. Among the married folks, Mary Jean Thompson, Personnel, fared best with the surprise return of her husband, Bill, from the ocean blue...Carroll Christensen, Engineering Section, returned last Wednesday from a big Christmas in North Carolina, flashing a diamond ring from Sergt. Donald Sommerville, U. S. M. C.

**CONDOLENCES:** To Kay Kelsey Wetherington, AWT, on the death of her mother.

BUY WAR SAVINGS BONDS AND STAMPS

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BUY WAR SAVINGS BONDS AND STAMPS



**LOST:** A 1943 Hampton High School class ring with the initials E S on the inside. It was lost in the Ladies' Room in the Engine Lab Building. Finder please return to Evelyn Smith, East Area Blueprint room. Reward.

**FOR SALE:** A pair of genuine brown baby alligator, high heel pumps, size 5 1/2 B. They have been worn only once. No auction ticket is wanted. Contact Mary Jones in L Purchase.

## REGISTRATION

(From page 1)

courses on a two or two and one-half hour basis (two days per week), and will enroll persons in the course indicated as his first choice.

Classes start Jan. 10 and will continue for ten weeks. Upon satisfactory completion of each course the nationally recognized certificate of the U. S. Office of Education will be awarded the student. There is no charge for the courses, but the student will be expected to furnish certain sup-

plies such as textbooks and writing materials.

Courses to be offered include: (Courses which are not followed by figures are proposed to last one and one-quarter hours) Blueprint Reading, Physics, Mechanical Drawing (2 1/2 hours), Fundamentals of Radio (2 1/2), Sheetmetal Pattern Drafting (2 1/4), shop Mathematics, Simple Aerodynamics, Woodworking Theory, Theory of Electricity, Use of Handbooks (2 1/2), Metallurgy, Machine Shop Theory, Machine Shop (2 1/2), and Machine Design.

## Safety Aces

# A

**WATCH LADDERS, THEY MAY BE DANGEROUS. SEE THAT THE RUNGS, OR CLEATS AND SIDES ARE STRONG AND IN GOOD CONDITION.**

**NEVER PLACE LADDERS AT AN UNSAFE ANGLE; ON SLIPPERY FLOOR, ON BOXES, LOOSE BOARDS, OR SO AS TO REST ON ONE LEG.**

NO. 4

# A

## SPOTTED....

*The man in question is James Blanchard "Lefty" Forrest, Superintendent of Labor for the Maintenance Section.*

\* \* \*

## Begin

## Construction

(From Page 1)

soon as contracts are awarded.

Laboratory officials pointed out that the proposed construction is not a part of a post-war program but includes buildings and equipment necessary to conduct research programs for the winning of the war in the air. It is for this reason that the building program is being pushed to completion within nine months, if possible.

In order to expedite the project, designing was handled by the Langley Laboratory's Construction Office and AERL construction personnel, with the aid of outside architectural engineering firms.

The proposed buildings and equipment and the estimated cost follow:

Induction Aerodynamics Laboratory--\$770,000.

Physical Research Laboratory--\$1,161,500.

New 16,000-horsepower drive for 8-foot Tunnel--\$655,000.

Two 7 by 10-foot Wind Tunnels and laboratories--\$1,564,000.

Electronic Aircraft Instrument Laboratory---\$784,800.

Aircraft Loads Building and Aircraft Loads Calibration Laboratory--\$1,199,000.

West Model Shop extension--\$39,000.

Sheetmetal Shop--\$423,500.

Electrical Building----\$126,000.

Roads and West Area Heating Plant--\$1,467,226.

*WIRELESS: Three decades ago J. A. D. McCurdy sent and received the first wireless in the air.*