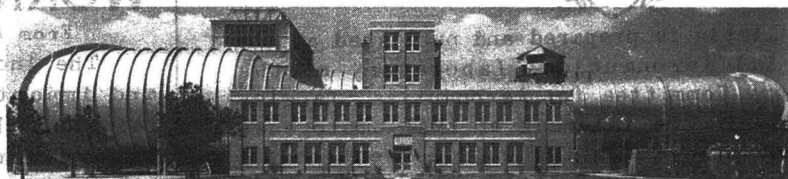
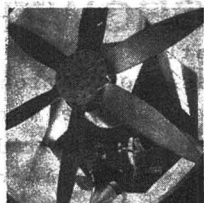


# LMAL BULLETIN



## LANGLEY MEMORIAL AERONAUTICAL LABORATORY

Issue 15, Vol. 3 Langley Field, Virginia, April 1-7, 1944

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### STRUCTURES, ALL-STARS TO PLAY APRIL 23

Plans have been completed for the pre-season softball attraction which will bring together Structures Research, 1943 champions, and the Bulletin All-Stars. The game will be played on Sunday, April 23, at 2 p.m. at Darling Memorial Park.

In event of inclement weather, the contest will be postponed until April 27.

Meanwhile, plans are going forward for the operation of the LMAL Softball League this season. There are 14 teams entered, including the Engineering Section, Bat Busters, Full Scale Tunnel, 8-foot High Speed Tunnel, Tank, AWT, Low Turbulence Tunnel, Structures, Instrument Research, PRT, Aircraft Loads, East Area Shop, Flight Research, and 19-foot Tunnel.

### NAME SOUTHERNERS FOR APRIL 21 DANCE

The Green Cow executive committee members were evidently so overjoyed at completing arrangements for the next dance so far in advance, that they forgot which band they hired. The story in last week's Bulletin stated that Red Overton would furnish the music when it should have read that Blair Blanton and the Southerners would occupy the bandstand.

Bill Craig, chairman of the committee, announced that the booking of the Southerners was in keeping with the new idea of presenting a variety of dance music to the prom trotters. Bob Savage and Red Overton have been presented at the preceding dances of the

year.

The Southerners are regarded as one of the "tops" of local bands. They have a style that encompasses both sweet and hot. Among the featured attractions are the stars of the WGH radio show, "Songs by Shirley and Blair", which is heard over the local airways each Thursday at 7:45 p.m. Blair Blanton is the piano playing leader and Shirley Linkus the petite vocalist. Also featured with the band is the hot trumpet of Bert "beat to the socks" Miller, of the West Sheet metal Shop.

The dance will be held at the Hampton Armory on Friday, April 21, from 9 until midnight.

### NEWS OF THE 'COCONUT' FRONT

This might sound like 'monkey business', but it's really a true story about Pfc. Elmer W. Greene, Jr., brother of Shirley Greene of the Laboratory's stenographic section.

Private Greene saw plenty of action on the Kwajalein and Eniwetok atolls. 'I heard the bullets whistle over my head more than once...and was knocked down by concussion once', he wrote.

But despite the bullets and mortar fire of the Japs, the 'crowning' blow for Greene came when he was knocked unconscious by a falling coconut.

### ELEVEN RETURN TO LAB IN ACER

Eleven Laboratory draft-eligible men who have come under the Army-Navy NACA Personnel Plan have been inducted and ordered to LMAL in the Air Corps Enlisted Reserve, according to a report made by officials here.

First to return was Charlie E. Rogers, who came back on March 20. William A. Eareckson, Jr., and Charles B. Edwards, Jr., returned on March 22. Eight came back on March 27, including Alvin W. Brittingham, William C. Burtner, Francis R. Dreisbach, Theodore H. Elder, Hugh C. Halliday, Louis M. Nucci, Harry C. Shoaf, and Andrew Veryzer.

Two other men, John T. Law and David E. Hicks, who had received their preinduction physical exams before the Army-Navy NACA Personnel Plan's list of essential employees was officially approved, did not elect to come under the plan when they reported for induction.

Law and Hicks had been assigned to the Navy at the time they passed their preinduction physicals. Both were on the essential list and at the time they reported for induction they carried certificates requesting their return to LMAL by way of the ACER. However, since the plan is entirely voluntary with the individual, they were not returned as a result of their own choice.



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

*Conservation Needed*

A report from the Stock Section indicates that there is a critical shortage of paper towels. "It is almost impossible to obtain them at the present time", we are told.

Employees are urged to practice conservation in the use of paper towels. It has been suggested that one way to do this is to let as much water as possible drip off the hands before trying them with a towel. When this is done only one towel is usually needed.



**FIGURES SHOW WORK GROWTH**

*From Aviation News*

The increased operations and importance of the work being done by the National Advisory Committee for Aeronautics is reflected in the 1945 fiscal year estimated appropriation listed at \$23,454,500 as compared with the \$15,672,000 for the 1944 fiscal year.

There is pending, in the deficiency appropriation bill, an item of \$2,398,415 for NACA general operating expenses and in addition there are three supplemental estimates for constructions: \$8,804,200 for Langley Field; \$2,249,100 for Moffett Field and \$3,936,000 for the Cleveland laboratories.

Dr. Jerome C. Hunsaker, chairman, told a house appropriations subcommittee that in spite of wishful thinking and hoping, we have to prepare for a long war.

He declared: "we must go on the idea that it is a war with increasing pressure for full supremacy in the air. That is the critical thing in the war and we can take no chances on losing that air supremacy".

*If a man empties his purse into his head, no man can take it away from him. And investment in knowledge pays the best interest.*

-B. Franklin

*No man ever worked his passage anywhere in a dead calm-kites rise against, not with the wind.*

-John Neal

**NACA BOND RECORD DURING FEBRUARY**

	Washington	Langley	Ames	Cleveland	Total
Number of employees	126	2480	530	1677	4813
Number participating	121	2330	503	1469	4423
Percentage participating	96.03	93.95	94.9	87.6	91.9
Monthly pay roll	\$27,872.	\$503,233	\$121,248	\$399,295	\$1,051,650
Amount Subscribed	\$3,588	\$66,178	\$13,073	\$38,620	\$121,461
Percentage subscribed	12.9	13.15	10.7	9.67	11.5
Average subscription	\$29.66	\$28.40	\$25.81	\$26.30	\$27.46

PHOTOGRAPHIC PROCESS BOOK  
MAY BE PURCHASED AT \$4.50

Dave Ullman, ICL, phone 328, reports that he can arrange to supply at reduced rate the book, "The Photographic Process", by J. E. Mack and M. J. Martin, to any employee interested.

The cost under the reduced rate is \$4.50, Mr. Ullman said, adding that this price was obtained because of the large number which are being ordered at one time. Any one interested should notify Ullman immediately.

WHAT NEXT? "Factory Management" magazine reports that one use suggested for the helicopter is to carry girders and beams to high buildings or bridges and hold them in place while they are being fastened. This would make derricks, elevators, and cranes unnecessary for this purpose.

# USO NEWS

This week's program at the Hampton Industrial USO begins on April 2 with open house and a meeting of the Brain Busters. On April 3 at 8 p.m. the bridge club will meet. The American Legion will have a meeting on Tuesday, April 4. A movie "He's My Guy", starring Dick Foran and Irene Harvey will be shown at 8:30 p.m. on April 6. The April 7 calendar will feature an "eatin' meetin'" at 5:30 p.m. On Saturday night, April 8, beginning at 8:30, there will be a dance.

LOST: A book "Physical and Dynamical Meteorology" by David Brunt. If found please call Bob Souter at Aircraft Loads.

NEW NUMBER: Stability Tunnel Head, 325.

## OPERATIC SOCIETY TO GIVE KALMAN'S 'COUNTESS MARITZA'

The Newport News Operatic Society is presenting "Countess Maritza", by Emmerick Kalman, in the Newport News High School Auditorium on Monday, Tuesday, and Wednesday nights, April 17, 18, and 19. Admission will be \$1.20 and tickets may be obtained from Lucette Biver, Cost Office.

## BOOKS ON 'COMPLEX VARIABLE' AVAILABLE FROM MR. GARRICK

I. E. Garrick, Physical Research, phone 332, has available at \$1.60 each, eight copies of the book, "Functions of a Complex Variable With Applications", by E. G. Phillips.

These books were ordered last fall for a University of Virginia extension course and arrived from the publisher four months late. Any one interested in obtaining one may communicate with Mr. Garrick.



BASKETBALL CHAMPIONS: In a highly successful LMAL basketball season, championship honors went to the 8-foot High Speed Tunnel team. Approximately 100 staff members participated in the abbreviated season's play, showing a keen spirit of competition and good sportsmanship. The champs include (from left): Front row-- Hank Fedziuk, James Delaney, Capt. Arvo Luoma, Ralph Bielat, and G. E. Niles. Back row--C. A. Clarke, manager; A. T. Mattson, Felix M. Beiduk, W. S. Aiken, Donald Baals, and Cletus J. Vincke. Team members not in the picture were Bob Forrester and Bob Pendley.



# Service Notes...

A new name was added to our mailing list last week--that of Staff Sergt. Philip Fruchtman, who formerly worked in the Laboratory's West Sheetmetal Shop. He is a radio operator and gunner on a B-24. "Pinky", as he is known to many of his friends here, had completed six missions over Germany at the time of his last letter early this year.

We also received more letters last week from fellows on the mailing list:

One was from Private Viggo G. Dereng, who is attending Bombsight and Automatic Flight Control Maintenance School at Lowry Field in Denver, Colo. He sends a 'hello and best of luck' to all his old friends and says he would welcome any news from the 'gang'.

Howard 'Benny' Miller writes to say that he has been transferred from Freeman Field in Seymour, Ind., to Western Kentucky State Teachers' College in Bowling Green, Ky., where he is an aviation student. 'The longer I'm away from NACA, the more I realize the importance of the work...I'm looking forward to the time when I can again return to NACA and take up where I left off.'

Bobby "Shorty" Harrison, who is undergoing basic training at Aberdeen, Md., in a letter to Melvin N. Gough, head of the Flight Research Division, tells something of his experiences while learning to fire the Army's 30-caliber rifle.

"...To show you how scared I was, when I fired by second shot, I had tears rolling down my face. I overcame my fright and on my second fire I made a score of 162 (sharpshooter)... He said he got a big kick out of firing it after "I got used to it and I couldn't understand why I was scared of it..."

"Shorty" says he is preparing for a week in the woods in pup tents and has discovered at least one advantage in being small. "My feet will not stick out the end of my tent at night. Then too, I won't have to dig as big a fox hole as the larger fellows..."

CONDOLENCES to Dr. Calvin N. Warfield, AID, on the death of his father Friday night, March 24, in Baltimore.

## LIBRARY NEWS

The following new books are available at the Library in the Administration Building:

629.134 Markley, James M. Text-book edition. Fundamentals for the Aircraft Mechanic.

621.884 R74 Roth, Marvin G. Manual of Aircraft Riveting.

778.34 G85 Greenwood, H. W. Infra-red for Everyone.

015.7 P96 Publishers' Trade List Annual.

629.13435 Sm5 Smith, G. Geoffrey. Gas Turbines and Jet Propulsion for Aircraft.

629.135 Ad1 Adams, Harold W. Aircraft Hydraulics.

517.21 B78 Bromwich, T. J. I'a. An Introduction to the Theory of Infinite Series.

671 L64 Linde Air Products Co. Oxy-acetylene Handbook.

530.1 N39 Neumann, Johann von. Mathematische Grundlagen der Quantenmechanik.

516.14 M61 Miller, J.C.P. Tables for Converting Rectangular to Polar Coordinates. Plastics Catalog for 1944.

651.4 B25 Barnard, C. I. Functions of the Executive.

629.1323 Un3 U.S. Naval Academy. Physics of Aviation.

629.135 US Atmosphere; 1942.

535.3 P93 Pringsheim, Peter and Vogel, Marcel. Luminescence of Liquids and Solids.

623.5 C85 Cranz, Karl Julius. Lehrbuch der ballistik. 3 vols. and supplement.

629.134384 V75 Vine, David. Reference book of aircraft wheels, brakes, and oleo struts.

629.1345 Norton, Stephen John. Inspection of Aircraft After Overhaul.

★ ★ ★

She: "My Dad takes things apart to see why they don't go."

He: "That's interesting, but so what?"

She: "You'd better go."

—Broadcaster

## BRAIN BUSTERS DISCUSS RULES

The rules discussion conducted by the Brain Busters on March 26 at the Hampton Industrial USO was attended by nine members who aired their views in regard to the 1944 rules as presented by the Academy of Model Aeronautics. All present were agreed that the Academy rules "are too stringent and unfair" and should be disregarded by the Brain Busters.

Among suggestions for rules to be used in Hampton were:

1. That AMA 1943 rules should be followed, with a shorter motor run as used locally in 1943.

2. A minimum wing area of 1500 square inches per cubic inch piston displacement, with no regard to wing or power loading; no cross-section.

3. Increase wing loading to 12-15 oz. per square foot and increase the motor run.

4. Limit planes only to class according to AMA rules for A, B and C engines. No wing loading, power loading, cross-section, or wing area rulings.

The next meeting will be held Sunday, April 9, at the Industrial USO. Paul Marchal, Jr., acting secretary, announced that the club wishes to formulate rules in the best interests of the majority of members and urges a full attendance at the session.

### BUY MORE WAR BONDS

#### PLAN 'SUNRISE' SERVICE AT MRS. DARLING'S HOME

The young people of Hampton are sponsoring an Easter Sunrise Service to be held on Sunday, April 9, on the lawn of Mrs. Frank W. Darling's home in Hampton. This will be the second annual Sunrise Service.

The program will start at 6:30 a.m., with Dr. William A. Aery leading the meditation. Elizabeth Chapman, violinist, will furnish the music.

# Life At The Laboratory

**HERE AND THERE:** Helen Walker, Stocks, is visiting a friend at Fort Bragg, N. C....Oleta Church and Marge Bullock, AWT, spent the week-end at Oleta's home in North Wilkesboro, N.C... Margaret Farmer, AWT, is spending a few days at her home in Wilson, N. C....Shirley Huxter, 16-Foot Tunnel, has returned after a visit to her home in Richmond....Fat Chiarito, Structures, has gone to his home in New York to visit his brother who will soon go overseas....John Duburg, Structures, is back after a visit to New York....Louise Faul, AWT, visited her family in Washington, N. C., last week....Joe Kotanchik, Structures, is back after a visit to Philadelphia.

**VACATION RHAPSODY:** Ruth Smith, Construction, and her husband, who has just received his second lieutenant's commission, have returned after spending twelve days in Detroit....Billy Warren, AWT, is spending a few days at her home in Sumter, S.C...Herman Ankenbruck, Free Flight Tunnel, has returned from Baltimore where he visited his brother, who is stationed there with the U. S. Army....F. K. Deck, Dynamic Tunnel Operations Shop, has left the Lab to help his father on his farm.

**MISCELLANY:** Ruth Barnhart, Spin Tunnel, has returned from a visit to her home in Albuquerque, N. M. She brought a bottle of Albuquerque dirt to Tom Snyder so he would know just what the place looks like....Dot Estes, 19' Pressure Tunnel, has returned after a visit to her home in Greensboro, N. C...Hazel Philyaw, 19' Pressure Tunnel, took a train to Washington last week-end and "flu" back. She was out of work for three days. Bob Graham, 19' Pressure Tunnel, and his wife, Nell of L Purchase, are back from a visit to Raleigh.

**VISITOR:** Lieut. Carl J. Wenzinger, former head of 19' Pressure Tunnel Section, visited the Lab last Tuesday, March 21.

**ILL WINDS:** Buck Barber, Construction Purchase, who has been ill for the past few weeks, is recuperating at his home in Hilton....Marie Bird Allen, Head of 16' Tunnel Computing Section, is back at work after recuperating from measles.... Dorothy Bria, AWT, is at her home in Hampton after undergoing treatment at the Base Hospital.

**PARTYING:** The boys of Club 55 had a party last Friday night, March 24, honoring Bob Weinberger, who celebrated his birthday. Bob was a quarter of a century old....Free Flight Tunnel had another of its well known parties Friday night, March 31, at the Hampton Yacht Club.

**BRIDGE TOURNAMENT:** The first round of the 19' Pressure Tunnel's bridge tournament was so successful that the staff is planning to run off another round. Owen Deters and Ralph Avakian were the high scorers. Jerry Teplitz and Helen Flanagan, who were slated for last place at the end of the first play off, surprised everyone by ending up in second place; and to prove their ability they are entering the ALD bridge tournament.

**PROUD PAPA:** Howard H. Morris, Assistant Chief of the Technical Service Department, is the proud father of a son, Howard H. Morris, Jr., born Tuesday, March 28.

**OUTSTANDING:** In the battle for the cellar position in the basketball tournament, played off between Tank and 16' Tunnel last Monday night, March 27, Leonard Damratowski of Tank, proved to be one of the outstanding players for 16'. In the midst of all the confusion, he dropped the ball in the basket to score 2 points for the opponents.

**NEW ARRIVAL:** Frederick Breisch, West Machine Shop, is the father of a new son, born March 23 at Dixie Hospital.

## CLEVELAND CLIPPINGS

**HOMES READY:** Riverside Park, a new housing project, is nearing completion. Some NACA employees have already moved in.

**SMOKER:** Carlton Kemper, Executive Engineer of AERL, was principal speaker at the "smoker" for Laboratory employees held on March 23.

**STUNT NITES:** Stunt Nite shows were staged on three different evenings to accommodate the large number of employees who received free tickets by virtue of their purchasing \$25 bonds during the Fourth War Loan Drive.

**FOSTER ILL:** Hampton Foster, formerly of LMAL and now head of the Multicylinder Diesel Group at AERL, is convalescing from several weeks' illness.

**SPORTS:** Basketball, golfing, bowling and rifle shooting hold the AERL sports spotlight. A rifle range is being built in the basement of one of the Lab buildings.

### "WORST AID"



#### ANY UNSAFE PRACTICES HERE?

Man removing splinter from finger with knife blade.

**LOST:** Arthur Kantrowitz has lost a book which is one of the Durand Series, Vol. 3. If found please contact him by calling 248.

## 8-FOOT TUNNEL WINS CAGE TITLE

The 8-foot High Speed Tunnel team outclassed the field and ran away with the Laboratory Basketball League championship, winding up the season with seven victories and no defeats in loop competition.

Trailing them in second place was the Structures Research quint, only team to defeat the champs, in an exhibition contest played two weeks ago. Structures won six. Their only loss was to the 8-rooters.

The champions ended the league season March 26 with a 31 to 24 victory over AFR. At halftime the high speeders were leading, 13 to 10. Their lead narrowed to 19 to 18 at the beginning of the fourth period, but Hank Fedziuk, who made 13 points during the game, paced the champs in the fourth period to widen the breach. Capt. Arvo Luoma and Cletus Vincke starred on the defense. Irwin with ten points was high man for AFR.

Structures defeated IRL in another March 26 game, 29 to 19, with Dave Ochiltree, Len Bartone, and John Houbolt tallying 12, 9, and 4 points respectively. From the second period on, Structures maintained virtually a 10 point lead.

In a battle for the cellar position, Tank won that "honor" by dropping a 31 to 18 decision to 16-foot. It was the first victory for the 16-footers, while the hydro boys have yet to taste victory.

### FINAL STANDINGS

Teams	Won	Lost	Pctgs
8' HST	7	0	1.000
Structures	6	1	.857
FRT	5	2	.714
IRL	4	3	.572
FRD	3	4	.429
AFR	2	5	.286
16' HST	1	6	.143
Tank	0	7	.000

Husband (answering telephone): "I don't know. Call the weather bureau."

Pretty young wife: "Who was that?"

Husband: "Some sailor who wanted to know if the coast was clear."  
—The Armodier

An asylum inmate sat fishing over a flower bed. A friendly visitor walked up to him and said, "How many have you caught today?"

"You're the ninth," quoth the inmate.  
—Arizona Contact

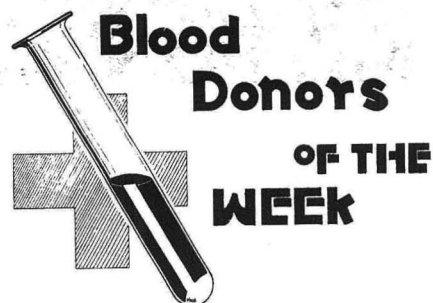
Drunk (to smartly uniformed bystander): "Shay, call me a cab, will ya?"

Bystander: "My good man, I'm a naval officer—not a doorman!"

Drunk: "Awright, awright, then call me a boat. I gotta get home."  
—Broadcaster

I followed her 10 blocks or more.  
A figure trim and neat;  
And then at last I saw her face  
As she turned off the street.  
And now I'm searching far and wide,  
And blood is in my eye.  
I'm looking for the man who said  
That figures never lie.

—California Bruin



## Blood Donors

## OF THE WEEK

### LMAL BLOOD DONORS

David R. Woodward, Tank No. 1. Emergency case at Dixie Hospital.

John H. Wood, Spin Tunnel emergency case at Dixie Hospital.

Marvin I. Haar, Tank No. 1, to wife of LMAL employee.

Jack Posner, Tank No. 1, emergency case at Dixie Hospital.

Durwood A. Dereng, Dynamic Model shop, emergency case at Dixie Hospital.



NEW CLUB: Five members of the Hampton Model Power Boat Club are shown with their models. They include (from left): Front row--James Betts and Freddie Jorgensen; Back row--H. F. Andrews, Curtis Martins, and Robert Folz. The club will meet at 8:30 p.m. April 2 at the Hampton Industrial USO to witness movies of a Baltimore regatta and shots of a model boat traveling 70-miles-per-hour. The club is interested in enlarging its membership and any one wishing to attend the meeting may do so. Officers are Betts, commodore; Martins, vice commodore; Andrews, secretary-treasurer; and Spencer Cardwell, corresponding secretary.