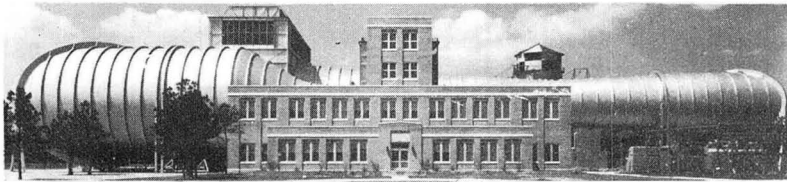
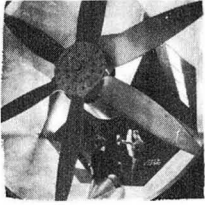


# LMAL BULLETIN



## LANGLEY MEMORIAL AERONAUTICAL LABORATORY

Issue 37, Vol. 3

Langley Field, Virginia, September 2-8, 1944

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### FCU CHANGES OPERATIONS

The great increase in volume of business of the LMAL Federal Credit Union has necessitated a complete reorganization in the manner of handling the individual members business. Effective September 1st, the present system of individual collections in each building is being discontinued. To supersede this system the Credit Union has established two business offices. The East Area office, located in the Personnel Services Office, Service Building, is sharing space with the Rationing and Housing Units, and the West Area office is located in the West Area Cafeteria.

Mrs. Modesta D. Roberts is in charge of each office and all loan applications, loan repayments, and share deposits are to be made to her at the above business offices during the following hours - East Area: Monday, Wednesday, Friday, 11:30 a.m.-4:00 p.m.; West Area: Tuesday, Thursday, 11:30 a.m.-4:00 p.m. Telephone - East Area: 377.

It must be emphasized that it is the responsibility of each member to transact his business promptly at the above offices. There will no longer be any collectors other than Mrs. Roberts and collections will be made only at the business offices in the East and West Areas. Please be sure to bring your passbook as this is your only receipt.

### ROOSEVELT NAMES ENGINEERING COURSES THEODORE WRIGHT OFFERED BY UNIVERSITY AIR ADMINISTRATOR

Theodore P. Wright, member of the National Advisory Committee for Aeronautics and Chairman of the Committee on Aerodynamics, has been nominated by President Roosevelt to succeed Charles L. Stanton as administrator of aeronautics. Mr. Wright, assistant chief of the Aircraft Branch of the Office of Production Management, has played a major part in directing the nation's war-time aircraft production program.

President Roosevelt, in his letter accepting Mr. Stanton's resignation, stated that Wright's appointment had been suggested by Secretary of Commerce Jesse Jones. In a statement explaining the personnel change, William A. M. Burden, assistant Secretary of Commerce, says, "The President's action in nominating T. P. Wright as Administrator of Civil Aeronautics is an outstanding step in preparing American civil aviation to meet its heavy post-war responsibilities."

In a recent article in the New York Times concerning Wright's appointment, it was stated, "Since Mr. Wright has been a key man in direction of the aircraft production program, it was speculated that the action might indicate a major tapering off of plane production was anticipated about September 1."

The LMAL Personnel Training, in conjunction with the University of Virginia, has arranged for a series of engineering courses to be conducted at Hampton High School for Laboratory employees under the Engineering Science and Management War Training Program. These courses are scheduled to begin early in October and are primarily designed to train and broaden the engineering personnel and to prepare them for more responsible assignments.

Each of the courses offered have been carefully outlined by advisory committees composed of capable engineers who know and understand the specific engineering training needs of the Laboratory. Employees desiring to register for the forthcoming fall semester are urged to contact their section heads and obtain necessary application blanks which must be filled out, approved by their section heads, and submitted to the Training Division on or before September 6. These applications will then be reviewed by the respective advisory committees, and those accepted will be notified.

Dependent upon satisfactory registration, the following courses will be offered: Aerodynamics of Compressible Flows, Airfoil Development, Appreciation and Prediction of Flying Qualities, Aerodynamics of Aircraft Power-

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The LMAL Bulletin is the official publication of the Langley Memorial Aeronautical Laboratory, National Advisory Committee for Aeronautics, Langley Field, Virginia. It is published weekly in the interest of management and the employees. Contributions should be addressed to the Editor, in the Service Building, telephone 376.

Editor . . . . . Tiny Hutton  
Managing Editor. . . . . Ruth Angel  
Sports . . . . . Si Diskin, Nancy Shelton  
Reporters. . . . . LMAL Employees

## OBSERVATION AND PERCEPTION

An experiment relative to observation and perception was conducted in the current training class "Psychology at Work". Two people, Ruth Bachman and Jerry Sickler, interrupted the class as they entered unexpectedly, arguing. Within fifteen seconds the argument rose to the push and slap stage. (The slap was executed "stage style" as reported by Bill Craig, Lenore Hulcher, and Conrad Lanser. Ruth's hand is black and blue from the rehearsals but Jerry's face was not red.)

A list of twenty questions was given to the class immediately afterwards. The results were amazing (no more amazing than the results have been wherever the experiment has been conducted.)

The suit Jerry Sickler was wearing was described as blue stripe, blue, gray, gray green, blue pin stripe, blue and gray.

The time of the act was reported as being anywhere from five seconds to two minutes. No one could give any one of eleven short sentences verbatim, and no more than three out of fifteen got the subject of the conversation correct.

One noticed that Jerry wore one glove, but several described the tie - he was not wearing. No one noticed the safety pin on his lapel. At least three were ready to state that Tom Hulcher was not in the room during the act although he did no more than stand up and sit down again in plain view at the front of the room.

Doesn't it make you wonder just a bit about how much you really observe and how sure you are of what you think you saw, not to mention the interpretation you put on it.

It doesn't do any harm to follow the advice that appears at railroad crossings in dealing with people, too. Stop, look, and listen and then weigh the facts well before interpretation and action. We are especially likely to have our thinking clouded during any emotional stress or distraction. Maybe if we take in our surroundings more thoughtfully we won't fall over that tool that was dropped and left lying there - we might straighten up the office or shop more frequently. Perhaps we would even be more considerate in our relationships with people if we concede that sometimes we can be mistaken, too, and that would eliminate a lot of that friction that has a way of slowing up our work.

## BUY MORE WAR BONDS

## LIBRARY NEWS

The following new books have been received by the Library:

517.38 B81 Brown University: Ordinary differential equations in the real domain with emphasis on geometric methods, by Witold Hurewicz.

517.38 B81 Brown University. Partial differential equations, advanced topics, by Stefan Bergman.

620.1123 B81 Brown University: Mathematical theory of elasticity, by I. S. Sokolnikoff.

531.3 B81 Brown University: Non-linear mechanics, by K. O. Friedrichs and others.

531.2 B81 Brown University: Graphical statics, by Hans Reissner.

621.384 B81 Brown University: The mathematics of ultra-high frequencies in radio, by Leon N. Brillouin.

620.1123 B81 Brown University: Theory of plasticity, by W. Prager.

620.1 W67 Williams, Clifford D.: Analysis of statically indeterminate structure.

620.1 B47 Beizeno, Cornelius B.: Technische dynamik.

532 5 G26 Gebelein, Hans: Turbulenz, physikalische statistik und hydrodynamik.

517.38 B81 Tamarkin, J.D. and Feller, Willy: Partial differential equations.

531 B81 Brown University: Geometrical foundations of Mechanics, by Hilda Geiringer.

531.3 W58 Whittaker, E.T.: A treatise on the analytical dynamics of particles and rigid bodies.

491.73 Ob6 O'Brien, M.C.: New English-Russian and Russian-English dictionary.

433.2 K66 Langenscheidt's pocket-dictionary of the English and German languages.

FOR SALE: An Emerson portable radio in perfect condition. Contact E. Druckman, Instrument Service, 319.

FOR SALE: Electric record player in excellent condition. Contact Juanita Crawford, 422 Seminole Road.



# SPORTS



## TEAMS STILL TIED

### ALL-STAR TEAM

East Area Shops led the teams in the softball league in placing men on the All-Star team by landing five men on the first team and two on the second. The Shop men selected were Paul Marchal, named honorary captain of the team, Dale Burrows, John Gradle, Irwin Schumacher, and Cliff Link on the first team, and Clarence Brown and Ira Ramsey on the second.

Structures placed four men on the first team - John Neff, catcher; Si Diskin, pitcher; Walter Woods, second baseman; and Carl Rossman, outfield.

The only repeaters from last year's team were Diskin, Marchal, and Claude Hart, Full-Scale's third baseman.

Al Martina, pitcher for the 19' Tunnel team, was out in front of the pitchers. He polled more votes than all his opposition combined. Diskin and Burrows tied for the

other pitching spot on the first team.

Ray Comenzo, AWT, ran away in the race for the shortstop post.

Jack Reeder, FRD, was named to the other outfield position. Reeder and Schumacher also made the first team of the touch football All-Star team last fall.

Full-Scale dominated the second team with pitcher Roy Lange, first baseman Hal Sweberg, outfielder Bill Hagginbotham, and utility man Jerry Brewer.

PRT gained three second team spots with pitcher Sam Vollo, catcher Pete Korycinski, and third baseman Al Marino.

The other second team positions were filled by Jerry Teplitz, 19' second baseman, Red Neihouse, Stability short fielder, Fred Rice, Low Turbulence outfielder, and Jim Delano, 8' HST outfielder.

First Team	Position	Second Team
John Neff, Structures	Catcher	Korycinski, PRT
Al Martina, 19' Tunnel	Pitcher	Ramsey, East Shops
Si Diskin, Structures	Pitcher	Vollo, PRT
Dale Burrows, East Shops		Lange, Full-Scale
John Gradle, East Shops	First base	Sweberg, Full-Scale
Walter Woods, Structures	Second base	Teplitz, 19' Tunnel
Ray Comenzo, AWT	Shortstop	Brown, East Shops
Claude Hart, Full-Scale	Third base	Marino, PRT
Irwin Schumacher, East Shops	Utility	Brewer, Full-Scale
Paul Marchal, East Shops	Short Field	Neihouse, Stability
Cliff Link, East Shops	Outfield	Hagginbotham, FST
Jack Reeder, FRD	Outfield	Rice, Low Turb.
Carl Rossman, Structures	Outfield	Delano, 8' HST

Honorable mention, Catchers: Deters, 19'; Alexander, FRD; Batterson, Loads; Pitchers: Baals, 8' HST; Hansen, IRD; Scriven, AWT; First Basemen: Spooner, 19'; Nuber, LTS; Liccini, 8' HST; Kotanchik, Structures; Second Basemen: Maggin, Stability; Brittingham, EAS; Youngblood, IRD; Shortstops: Bartone, Structures; Vincke, 8' HST; Cancro, 19'; Guryansky, FST; Third Basemen: Kleckner, FRD; Bostetter, Stability; Short Fielders: Luoma, 8' HST; Bates, AWT; Cartobiano, PRT, Dingeldein, FST; Outfielders: Paulson, Stability; Posner, Tank; Capolino, Engineering.

The battle for the third and fourth spots in the softball league playoffs was tied again after one week's play in the round-robin series. Each of the three teams had won one game. In the first game of the second series, East Area Shops downed AWT, 4-3. Cliff Link and Ira Ramsey were the batteries for the winners, and Jim Scriven, John Knemeyer, and John McKee for the losers.

In the last week's games, AWT defeated the Shops 9-4, with Scriven winning over Burrows; EAS won over PRT 6-5, in eight innings, with Link winning over Vollo; and PRT dropped AWT 5-3 with Vollo winning over Scriven. A game between the Shops and PRT was called on account of darkness after the seventh inning homer of Sam Vollo had tied the game 5-5.

## H.A.A. NEWS

The Hampton Athletic Association is moving steadily ahead. Already two new clubs have been formed, the track and weight lifting clubs. The track club meets on Monday, Tuesday, and Thursday at 5:30 p.m. at the USO, and the weight lifting club meets on Monday, Wednesday, and Friday at 7:30 p.m. at the USO.

Mr. Dowling of the Recreation Association has volunteered to supply all equipment for a horseshoe pitching tournament. All persons interested may contact Ilando Capolino at 240.

On Monday night at 7:30 at the Industrial USO elections will be held and membership cards redistributed.

LOST: Peruvian silver bracelet with filigree design. If found contact Alyce Wood, Stenographic Section.

FOR SALE: Silk Screen outfit. Frames, colors, and mediums. In good condition. Contact J. J. Lankes, phone 206.

## Life At The Laboratory

**ROMANCES:** Edwin Nye, Cowling and Cooling, tied the final knot on August 12, when he married Fern Drumheller of Boston, Mass....Seymour Bogdanoff and Harriette Eisenberg, FGDA, are making plans for an early October wedding.

**HEIR MAIL:** Ed Rickey, Full Scale Tunnel, is the proud father of a daughter, Diana Karen, born August 23....T. R. Crandol, Instrument Construction, recently became the father of a daughter, Mary Elizabeth....Shirley Shaul Bartlett, formerly of Switchboard, and Walter, PRT, are the proud parents of a daughter, Margaret Ann, born Wednesday, August 30. All three are doing fine.

**PARTIES:** Apprentice Administration had a boating party on Monday, August 28 for Debby Davis who is leaving the Laboratory....The East Area Computing Section sponsored a picnic at Grand View on Sunday, August 27 for all the new computers who have entered on duty since June 1. The picnic was a howling success despite the fact that there were no wolves present.... Lenore and Tom Hulcher, Paul Taylor and Harry Shoaf, supplied the boats for the Personnel Service cruising party on Thursday, August 31.

**WEDDING BELLS:** Sue Hunt, ALD, was married to W. O. Moore, Jr., U. S. Navy, on Tuesday, August 29....Dickie Creech, Messenger, and Frank Gough, formerly of Instrument Service, were married Friday, August 25.



**NO STABILITY**

**AND**

**TOO MUCH DRAG**

## Service Notes...

We got a letter from John Harrington the other day saying that he had been sent to Australia for special training. He enclosed several different samples of RAAF uniform insignia. Many thanks, John. If any of you fellows like, the Bulletin office would be glad to start a little museum with any souvenirs that you care to send us.

Lloyd Scott, formerly of the Hangar, dropped in last week and asked that his name be put on the mailing list. "Scottie" has been in the service six months and is an Air Crew Trainee prior to Army pre-flight. His present address is: A.C.T. Lloyd S. Scott, 2533 AAFBU Sec. 1, Goodfellow Field, Texas. He told us that Ben Cleveland and the Fournier Twins were stationed at the same base.

Another new name on our mailing list is Percy R. Keffer, Jr. Percy worked here several summers and also following his graduation from VPI. He is in the Coast Guard and has just received a promotion to Lieutenant, Junior Grade. He was aboard one of the first ships to reach the coast of Normandy.

Frank Allen, former employee of the Photo Lab, writes from the Marianas Island to say "During my stay on Saipan, I did some interesting and saw a few things that would make good stories, 'tho almost unbelievable...I'm on Tinian now and really like the place. Certainly hope that we can stay here until it is decided to send us home."

A letter was recently received from Payne Parker, Jr., who is now stationed in New Guinea. His address is: Pfc. S. Payne Parker, Jr., 33095250, Service Troop - 112 Cav., APO 705, c/o Postmaster, San Francisco, Calif.



## DOCTORS ENDORSE U. S. EMPLOYEE AID

In a recent article in the "New York Times" it was pointed out that a bill to provide industrial medical services for all Federal employees has been endorsed by officials of the Federal Government and a representative of the American Medical Association at hearings before the House District Committee.

According to Surgeon General Thomas Parran, the services contemplated would include a good pre-placement examination, including a chest X-ray for tuberculosis, minor medical and dental care, minor care for emotional disturbances, a nutritional effort, checks on environmental factors, such as bad lighting, which causes headaches; studies of records of absenteeism, control of contagion and infection, and some routine care in pregnancy. The program now under consideration would cost less than one cent per day per public employee.

This plan would be administered by the Civil Service Commission in consultation with the United States Public Health Service and in close cooperation with agency heads and personnel services. Dr. Parran pointed out that it is not socialized medicine, but, on the contrary, would be of benefit to the private physician by relieving him of caring for minor illnesses and referring to him such persons as properly need his help.

(Editor's Note: Readers are reminded that the above is only a bill now before Congress and of the many bills presented only a small percentage are passed.)

**ORGANIST WANTED:** An organist to play for both services on Sundays at the First Methodist Church, Hampton. Contact Walter Hixon, Technical Service Office.

## AERL . . . . AAL NEWS DIGEST

**MIDSUMMER SMOKER:** Approximately 550 AERL employees attended the midsummer smoker to hear Commander Kimmins of the British Royal Navy give a first-hand account of "The Greatest Invasion of Them All," a participant's story of how they got ashore on D Day. The commander praised the "brilliant planning and good execution" of General Eisenhower, and he declared him "the greatest of all leaders of all time." Concerning our boys who participated in the invasion, he said the American boys fought in a way that "we British fighting men will never forget, and when it comes to the invasion of Japan we will be there in enormous numbers to try and repay our debt in no uncertain terms."

**FIRST CASUALTY:** Staff Sgt. Stanley W. Richardson, who is reported missing in action, is AAL's first war casualty. Richardson has been missing since invasion day.

**A MESSAGE OF APPRECIATION:** In an editorial, E. R. Sharp, Manager, expressed his appreciation to the staff for making the Fifth War Loan Drive a success and for surpassing the highest quota yet assigned to them by 16 per cent.

**BLOOD DONORS:** AAL employees will have a chance to contribute to the blood bank when the mobile unit comes to Moffett Field on August 31.

**WINS MODEL HONORS:** Jack Norris, AERL, who was high-point winner in the sixth annual contest sponsored by the American Airline Gas Model Club, took three prizes for himself with his models. He won first and third place in Class C and second place in Class A.

**SERVICEMEN'S CLUB:** The club is asking AERL employees to submit ideas to raise funds for filling Christmas boxes for former AERL employees who are now in the armed services.

**Save Lives—Speed Victory!**

## BRAIN BUSTERS

The trophy listing for the Brainbusters Model Championships has been recently completed, and an important revision has been made in the list published in the last edition of the Bulletin. The Hampton Roads Model Company will present the Championship trophy rather than the Class C gas powered trophy, as previously announced. This trophy will be presented to the contestant receiving the greatest total number of points, which will be awarded on a graduated scale in each of the four events.

Trophies and donors are as follows: Championship Trophy, Hampton Roads Model Company; Class C Gas Powered, first, Administrative Department; second, Training Division, and third, Hydrodynamics Division. Class B Gas Powered, first, Brain Busters Model Club; second, Structures Club; and third, Hydrodynamics Division. Class A Gas Powered, first, H. J. E. Reid; second, Tiny Hutton; and third, Hydrodynamics Division. Rubber Powered, first, Dynamic Model Shop; second, Maintenance; and third, West Machine Shop.

In addition to trophies, a Forster model airplane engine will be awarded each first place winner. The engines were donated by Stability and Control Division, and East Engineering. A number of merchandise awards will be added to the above list to round out the awards. Several other sections and individuals are planning to add to the award list, and they will receive full recognition as soon as possible.

Harold Turner, 19-Foot Pressure Tunnel, will act as Chief of Police in keeping the flying area free of spectators.

★ ★ ★

**FOUND:** A pair of glasses between the Administration and Service Buildings. Owner may contact the Bulletin Office, phone 376.

## ENGINEERING COURSES

Continued from page 1

Plant Installations, Research Instrumentation, Fundamentals of Aeronautical Engineering, Pre-engineering Physics, and Advanced Mechanics of Materials.

There is a possibility that an additional course in Technical Report Writing may be offered, dependent upon the recommendations of the advisory committee now studying the feasibility of such a course.

The Pre-engineering Physics course is intended primarily for women employees who have a reasonable mathematics background and a few science majors but who have not been educated in engineering. It is designed to train them for engineering work which they may be called upon to do.

These courses are offered at no cost to the student.

### BLOOD DONORS OF THE WEEK

Edward L. Myers and Joseph M. Vricella, Construction Engineering, to emergency case at Dixie Hospital on August 25.

Fred L. Brown and Hugh C. Holliday, East Engineering, to emergency case at Dixie Hospital.

## Selective Service Seeks Cooperation

Once men have been transferred to the Air Corps Enlisted Reserve, they are no longer under the jurisdiction of the Selective Service System.

Men in the ACER should not bother Selective Service local boards, either in Hampton or elsewhere, with changes of address, marital status, or Civil Service promotions.

The Laboratory Selective Service Office, telephone 368, in the Service Building, should be promptly notified by all draft-eligible men, 18 to 38, of their change of address and marital status.

## USO NEWS

This week's program at the Hampton Industrial USO will open on Sunday, September 3, with open house. On Monday, September 4, the Athletic and Bridge Clubs will meet. The American Legion will meet at 8 p.m. on Tuesday, September 5. On Wednesday, September 6, the USO Mimes will meet. The movie "His Butler's Sister" with Deanna Durbin, Pat O'Brien, and Franchot Tone will be shown at 8:30 p.m. on Thursday, September 7.

## FOOTBALL LEAGUE GETS UNDERWAY

A meeting of the football league was held on Wednesday night, August 23, at the Hampton Industrial USO. Gus Boughan, Structures, was elected temporary chairman. Four committees, the grounds, schedule, rules, and officials, were appointed.

Fourteen teams have already entered the league. They are: Aircraft Loads, Construction, Structures, Flight Research, Tank, Instrument Research, Physical Research, 16-Foot Tunnel, 8-Foot High Speed Tunnel, Stability, Engineering Section, Low Turbulence, Propeller Research, and West Shops.

All other sections interested in entering teams are asked to contact Bob Nuber, 249; Walt Williams, 264; Gus Boughan, 216; or Irwin Schumacher, 251.

The next meeting will be held at 8 p.m. on Monday, September 4, at the Hampton Industrial USO.

Three fields have been obtained for practice and games, the Wythe School, Armstrong School, and Hampton High. All teams are urged to have their colored jerseys by September 24.

## NACA BOND REPORT FOR FIFTH WAR LOAN DRIVE

	Washington	Langley	Ames	Cleveland	Total
40% of April gross pay roll	\$10,905.80	\$219,106.39	\$54,133.19	\$179,592.00	\$463,737.39
Pay roll allotments, June & July	6,650.79	154,173.12	28,321.57	101,572.40	290,717.88
Cash Sales	5,195.30	118,091.50	34,518.25	102,486.25	260,291.30
Total pay roll allotments and cash sales	11,846.09	272,264.62	62,839.82	204,058.65	551,009.18
Percentage	108.62%	124.26%	116.08%	113.62%	118.81%
Total gross pay roll from March 1 to July 31	136,757.14	2,898,036.79	684,131.07	2,398,465.05	6,117,390.05
Total purchases from March 1 to July 31	22,114.67	477,097.16	105,739.35	330,465.05	935,416.23
Percentage of gross pay roll invested	16.18%	16.46%	15.45%	13.78%	15.28%