



# BULLETIN

Issue 15, Vol. 2

Langley Field, Virginia, July 31-August 6, 1943

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## LOENING HEADS HELICOPTER SUBCOMMITTEE

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.

### *Learns 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 1922, 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.

## *Dr. Lewis Conferring On West Coast*

Dr. George W. Lewis, Director of Aeronautical Research, is on the West Coast for a series of conferences with aircraft manufacturers. He arrived in Seattle, Wash., July 27, and was to continue to Southern California.

A survey of the present status of aeronautical re-

search and development and of the steps necessary to accelerate the solution of design problems involved in the new types of aircraft under development is being carried on by Dr. Lewis.

"There is splendid collaboration between aircraft manufacturers and the three research laboratories of the NACA", said Dr. Jerome C. Hunsaker, NACA Chairman, "and this in large measure is responsible for America's development of aircraft of superior performance to those of the enemy. "But," he added, "there are difficult technical problems growing out of the recent increase of airplane speeds beyond 400 miles per hour which must be solved as quickly as possible."

In addition to conferring with designers and engineers of the airplane factories, Dr. Lewis will visit Ames Aeronautical Laboratory.

## American Research Facilities Praised

America's research laboratories are cited as the finest in the world in an article entitled, "Those Claims Are Right," in the July issue of *Aviation*.

The article, written by Myles V. Cave, *Aviation's* British correspondent, reviews the performances of English and American planes.

On page 118 in the magazine, the article points out that:

"Sir Roy Fedden, former  
(See page 4)

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 Balint, 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 CIAMBAKE is being plotted by the NicNACA Social 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 Godfroy 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. Faris. Consolation for high score went to Dick Godfroy 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 from in front of the Administration Building 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:

- 6:30 a.m.
- 7:00 a.m.
- 7:20 a.m.
- 7:40 a.m.

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:

- 7:30 a.m.
- 7:50 a.m.
- 8:10 a.m.

and every ten minutes thereafter until 5 p.m. The last bus leaves at 5 p.m.

Buses will arrive:

Full-scale Tunnel--Approximately 2 minutes later.

Spin Tunnel--Approximately 3 minutes later.

19-foot Pressure Tunnel--Approximately 4 minutes later.

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.

	Won	Lost	Pct	Games Behind
1. Full Scale	7	1	.875	
2. 8' High Speed	6	1	.857	1/2
3. Stability Research	6	2	.750	1
3. West Sheetmetal Shop	6	2	.750	1
3. Structures Research	6	2	.750	1
6. Propeller Research	4	3	.571	2 1/2
7. 19' Pressure Tunnel	4	4	.500	3
8. Erection Shop	4	5	.444	3 1/2
9. 16' High Speed	2	4	.333	4
10. West Machine Shop	2	6	.250	5
10. Air Flow Research	2	6	.250	5
12. Tank No. 1	1	7	.125	6
13. Flight Research Maneuvers	1	8	.111	6 1/2

## 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 pay roll 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, 42 seconds.

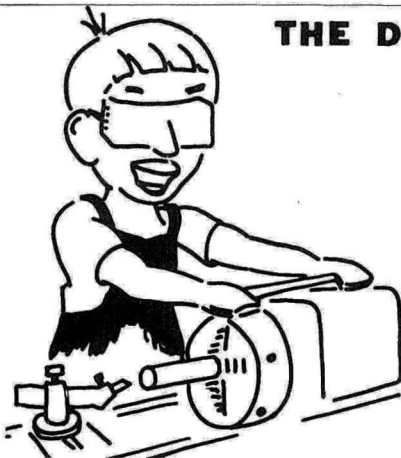
The club will meet Sunday, August 1 at 8:30 p.m. at the Industrial USO Center in Hampton.

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.

LOENING HEADS (From page 1) the Eggleston Medal of Columbia University (first recipient, 1940) for "distinguished engineering achievement." He is a fellow of the

Institute of the Aeronautical Sciences and of the Royal Aeronautical Society and a member of the Society of Automotive Engineers, the order of Quiet Birdmen, and Sigma Xi.

## THE DOCTOR IS WAITING FOR FOOLS LIKE ME WHO TAKE OFF GOGGLES BECAUSE THEY CAN'T SEE



**PROTECTED:** Begins work with goggles on.



**CARELESS:** Decides goggles interfere with vision--removes them.



**TRAGEDY:** Metal fragment strikes eye.

*DURING 1940 and 1941, unnecessary eye accidents, as illustrated, robbed America of nearly 20,000,000 mandays for providing war supplies.*  
National Safety Council

NHM

## 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 at 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, Milly DeVine, 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, FRL, 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. M. 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 Potter and Don Reisert, FRL, in Rhode Island; Chester Weger, FRL, 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, Purchase, in the Old North State; Virginia Tucker, head of the Computing Section, at Nags Head, N.C. Returned vacationists include Joe Shortal, 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 Ferguson.

# 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.

## Cites Research

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 INVARIABLY LEAD TO INJURY: REPETITION OF UNSAFE ACTS SHOULD THEREFORE BE AVOIDED.**

Investigation of injuries resulting from industrial accidents shows 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 88 PER CENT ARE CAUSED BY UNSAFE ACTS OF PERSONS.**

The first point of attack

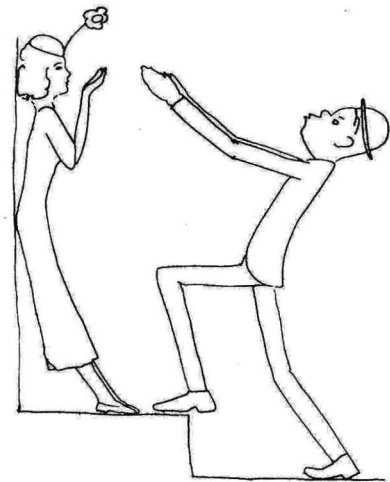
in an accident prevention program is against unsafe mechanical or physical conditions. All proposed buildings, structures and other installations are therefore reviewed by the Safety Board which eliminates, as far as possible, the potential sources of accidents and provides for inclusion of all practical 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.

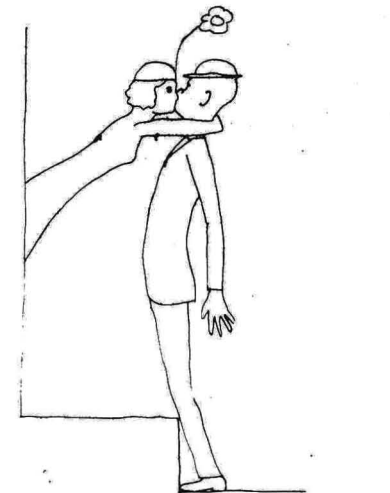
## Employee Has Big Part

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.

## HYDRODYNAMICS



Resistance on the Step



Over the Hump

## 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.

**LOST:** On July 22, a John Hopkins University ring, set with faceted ruby and inscribed GPF inside band. Return to Gordon P. Fisher, Structures Research (phone 216). Reward.