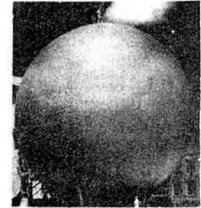
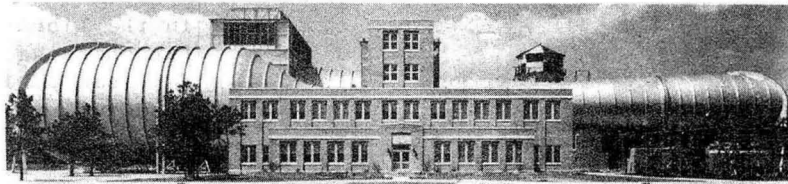
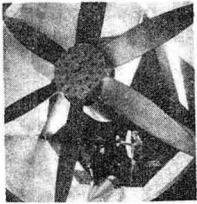


LMAL BULLETIN



LANGLEY MEMORIAL AERONAUTICAL LABORATORY

Issue 34, Vol. 2

Langley Field, Virginia, December 11-17, 1943

Page 1

USO SPONSORS DANCE DEC. 18

The Industrial USO Center in Hampton, the local war workers' "night club", will continue its Holiday Inn theme on Dec. 18 with a Christmas dance.

This will mark the second holiday dance in recent weeks, the first being the Thanksgiving frolic which was considered by USO officials as "highly successful".

Bill Solomon, 16-foot Tunnel, said refreshments will be served and LMAL staff members are invited to attend the affair.

USO officials suggest that Laboratory employees make the center their headquarters during the Christmas season.

STAFF WILL ELECT GREEN COW EXECUTIVE GROUP THIS WEEK

One of the fairer sex and 11 of the male element have been named as the nominees for the executive committee of the Noble Order of the Green Cow.

The nominees are : Sid Baterson, Impact Basin; Joe Burke, Personnel; Bill Craig, Administrative Office, Benny Cocke, Full Scale; Connie Hobbs, 19' Tunnel; John Houbolt, Structures; Tiny Hutton, Personnel; Charlie Kelly, Full Scale; Leigh Lewis, Apprentice Administration; Ed Palazzo, 8' H.S.T.; Toots Prospere, Free Flight; and Ben Vogel, Engineering.

Four of the group will be elected to succeed the present

committee, which includes, T. Melvin Butler, chairman, Axel Mattson, John Garvin, and Frances Winder. The one who receives the most votes in the current election will assume the duties of chairman.

All members of the Laboratory staff are entitled to vote for any number of candidates up to and including four. Ballots marked with more than four candidates will not be counted.

A total of 472 nominating ballots were cast for 22 persons. As stated in last week's

See page 3

STILL GOING UP!

Realizing more of the effect of the Third War Loan campaign, the Laboratory's percentage in the payroll allotment plan for War Savings Bonds took a rise of nearly two per cent. The percentage allotted during the month of November was 13.69 as compared with the September figure of 11.76. The percentage in October was 13.05.

The percentage participation felt an even greater rise. 97.58 is the figure for November as compared with 94.56 in October. October found 2,263 employees on the payroll with 2,140 participating while for November, 2,224 out of 2,284 were contributing.

The total payroll for the month passed was \$449,551.36 with \$61,570.89 going into bonds for an average allotment of \$27.68.



TOUCH FOOTBALL CHAMPS: Engineering Section won the NACA grid title last Sunday. Team members include, from left: Front row--W. R. Kabana, end; Ben Vogel, back; Ray Rosen, center; L. G. Spelber, center; Raymond Portnay, back; H. A. Nutter, guard. Middle row--Jimmy Lindell, end; C. T. Brown, back; Cliff Link, back; Frank Read, back. Back row--Irwin Schumacher, back; Joe Dodson, back; F. R. Deis, end; George Sadler, end; Capt. John Blank, back. Players not in picture: Paul Marchal, back; Charlie Nagel, guard; Nick Jervas, guard.



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

PERSONALS: Oleta Church, AWT, is spending the week-end at home in North Wilkesboro, N.C....John McKee AWT, is back from a flying trip to Pittsburgh via P.C. Airlines.... Clarence Gillis, AWT, is at home in Pittsburgh...Virginia Perry, AWT, has returned from a visit to her home in Edenton, N.C....Margaret Plumlee, East Area Computing, is visiting in Celina, Tenn....Frances Haas, AID, has returned from Charlotte, N.C....Sid Alexander and Howard "Pappy" Cole, 19-foot Tunnel, are back from New York....Nancy Wall, 16-foot Tunnel, is at home in Leaksville, N.C....Mary Hester Austin, Stability Research, is enjoying a sojourn at her home in Roxboro, N.C....Clint Brown, AFR, is in New Jersey... John Houbolt, Structures, has returned from a business trip to New York....Si Diskin, Structures, is visiting his home in Baltimore....Thelma (Punk) Stewart, Impact Basin, visited her sister in Portsmouth last week-end....Margaret Corbett, Stability Tunnel, is back after a visit in Durham...Doda Mae Smith, Head of Stability Tunnel Computers since Margaret Anderson, former Head left to join her husband at Camp Stewart, Ga., is visiting her parents in Erie, Pa....Bob Mendelsohn, Stability, is spending some time at his home in Detroit.

WASHINGTON OFFICE WOOS AND WINS: Mr. Cupid has gone to Washington and since then life in the Washington Office has been nothing short of terrific. Tom Smull, formerly of ALD and now in the Coordination Office, started the ball rolling when his engagement to Miss Roberta Spidel of Chevy Chase, Md., was announced. Milton Ames, former AWT engineer, jumped on the bandwagon a week later when his engagement to Miss Martha Nuland, Mr. Helms' secretary from sunny (?) California, was announced. Bill McCann, ex-LMAL power-plant specialist now in the Coordination Office, provided the next week's cigars following the arrival of a daughter, Shiela. Not to be outdone, Dick Chandler, former FRM engineer now in the Coordination Office, added to the dizzy pace with the announcement of his engagement to Miss Clara Sasscer of Washington, D.C. It has been rumored the boys wanted to get the jump on leap year---Where's Ulmer!!!

**OFFER BLUEPRINT SERVICE
IN LMAL'S WEST AREA**

Blueprint service is being offered to all activities in the West Area, according to an announcement by Robert E. Mixson, Head of Reproduction. The service is located in the Warehouse Building, adjacent to the Cafeteria, and will be operated by Mrs. Dorothy Johnson and Mary J. Williams. The phone number is 208.

LIBRARY NEWS

The following new books in the Library are available for charging out for a four-day loan period. These books must be called for and returned personally by staff members.

Edwards, H. W. Analytic and Vector Mechanics.

Hughes & DuBridge. Photoelectric Phenomena.

Pauling & Goudsmit. Structure of Line Spectra.

Ruark & Urey. Atoms, Molecules and Quanta.

Slater & Frank. Introduction to Theoretical Physics.

Kemmel, Edwin C. Fundamental Principles of Quantum Mechanics.

Kinzel & Franks. Alloys of Iron and Chromium. Vol. II.

Koller, L. R. Physics of Electron Tubes.

Laws, Frank A. Electrical Measurements.

Liddell & Doan. Principles of Metallurgy.

MacMillan, W. D. Theoretical Mechanics. Static and the Dynamics of Particle.

MacMillan, W. D. Theoretical Mechanics. Dynamics of Rigid Bodies.

Meadowcroft, Norman. Aircraft Detail Drafting.

Millman & Seely. Electronics.

Monk, G. S. Light; Principles and Experiments.

Operation of Aircraft Engines.

Craig, Homer V. Vector and Tensor Analysis.

Faulconer, T. P. Introduction to Aircraft Design.

Fink, Donald G. Engineering Electronics.

Fleming, J. A. Terrestrial Magnetism and Electricity.

Forsythe, W. E., ed. Measurement of Radiant Energy.

Frank, N. H. Introduction to Mechanics and Heat.

Gibb, T. R. P. Optical Methods of Chemical Analysis.

Haurwitz, Bernhard. Dynamic Meteorology.

Henney, Keith. Radio Engineering Handbook.

Houston, W. V. Principles of Mathematical Physics.

"GREEN COW" ELECTION

(From page 1)

Bulletin, the 12 with the highest number of votes were chosen as the official nominees.

Green Cow officials have expressed a strong desire to have more members of the staff vote in the election, in order to realize the true expression of the employees.

An official ballot is provided in this issue of the Bulletin for the use of all voters. Only one person may vote on each ballot. Each nominee may be voted for only one time on each ballot.

All ballots should be sent to the Bulletin Office where they will be kept in a sealed box until they are counted at 4:45 p.m., Tuesday, Dec. 14. All ballots must be in the office by that time in order to be counted. Regardless of what time they are sent, they will not be counted if they arrive after that time.

Everyone is urged to read the instructions for marking the ballot which is provided below.

CAN YOU SPOT HIM?

Read the clues carefully before checking answer on page six.

VITAL STATISTICS: This partially bald widower was born in New York City on Sept. 24, 1882 and has spent the past 37 years in Hampton.

EDUCATION: His College life was spent at Columbia University, where he received his Ph.D. in 1906. Through the efforts of his dean, he received an offer to teach at Hampton. The principal of the Hampton school was visiting in New York and asked our hero to have dinner with him at the Century Club. More thrilled with the prospect of the club than with the teaching offer, he went. The following fall found him in Hampton. It was then that he started thinking in the terms of a small town man rather than the big city boy.

FAMILY AFFAIRS: He met his future wife on an excursion to Buckroe Beach one afternoon. It happened that she was the secretary to the vice-principal of the school and the first letter that she had written was one requesting her future husband to come to Hampton as soon as possible. The two were married four years later. The turbulent thirties saw the death of his wife, in 1934, and his retirement from his position of Director of the School of Education at Hampton Institute, in 1939.

LABORATORY LIFE: He emerged from retirement, July 20, 1942, to come to work at the Laboratory and to head that phase of work that is chiefly con-

cerned with keeping our essential male employees on the job.

PERTINENT PERSONALS: He lives with his only daughter in Wythe Parkway...is a member of Phi Beta Kappa, Phi Delta Kappa, and Kappa Delta Pi, all of which attest to his prominence as a scholar and as one of the foremost authorities on the education of the American Negro...for the past 37 years has been a special correspondent for the "New York Times"...is doing a yearly article on the education of the American Negro for the "American Year Book"...wrote over a million words for the "Southern Workman" while at Hampton Institute.

PROBLEMS OF AN ILLUSTRATOR



"All we want is a simple little sketch of the whole assembled airplane. Could we have it in about an hour?"

COORDINATION OFFICE SERVES REAL NEED

Two blocks from the Pacific Ocean, in Santa Monica, Calif., a 12-story office building towers over the rest of the city. On the tenth floor of that building is located the NACA's Western Coordination Office, the beginning and work of which is of interest to LMAL personnel.

In the fall of 1939, Dr. George W. Lewis, Director of Aeronautical Research, sent Russell G. Robinson to the west coast to get construction of the Ames Aeronautical Laboratory under way and to carry out a new plan of the Committee to establish a closer liaison between the aircraft industry and the NACA.

Aircraft Industry Grows

The idea behind this closer liaison was that the aircraft industry was beginning to grow by leaps and bounds and was, of course, running into all sorts of engineering and design problems. Furthermore, many of the aircraft companies were building wind tunnels and doing a good deal of aerodynamics research of their own. The NACA was also expanding.

If the aircraft industry could be informed more fully of the NACA work and research facilities, which might be used to help solve the industry's engineering problems, and if the NACA, in turn, could learn something of the independent research and of the needs of the industry, much mutual benefit could be derived. The best way to accomplish such an exchange of information would be through personal contact.

The Coordination Office was therefore established; and its present head, the Chief of Research Coordination, reports directly to the Director of Aeronautical Research. In brief, the Chief of Research Coordination and his staff were to be investigators for and advisors to the Director of Aeronautical Research.

In 1939, when the Coordi-

nation work was begun, the staff of the Coordination Office consisted of Mr. Robinson and E. G. Whitney, now assistant executive engineer of AERL at Cleveland. Mr. Robinson's burdens were considerably lightened early in 1940 when E. R. Sharp, now Manager of AERL, and John F. Parsons, arrived to take over construction of AAL. (At the same time, Mr. Whitney was holding down the eastern Coordination activity in good fashion).

S. Paul Johnston, former editor of "Aviation", was in January, 1940, appointed Coordinator of Research (the original title of the head of the Coordination Office) to work out of the Washington Office as supervisor of all Coordination work.

Hartman Appointed

As the year grew, so did the aircraft industry, the Coordination work, and the NACA. Work on the new Aircraft Engine Research Laboratory at Cleveland was started, and Mr. Whitney was withdrawn from the Coordination Office in June and assigned to the new project. He was replaced in the Coordination Office by

McCann, who had worked with Oscar W. ... Mr. Robinson was sent to Washington ... Hartman, who had been associated with the research Tunnel ... sent to the west ... first of June, ... over the western work.

As an indication of the activity of the staff as a whole, it is mentioned that during the period from Jan. 1, 1941, to Dec. 1, 1941, 780 visits were made to aircraft manufacturers, ...

FIRST: In an agreement with AERL weekly the LMAL Bulletin exchange to all the laboratories be exchanged prior to the article on the digest of one recent Tips.

sities and educational institutions, 88 to Governmental laboratories and agencies, and 28 to commercial air carriers.

Frequent Trips Necessary

Headquarters of the western Coordination representative were officially located at AAL, and frequent 400 mile trips had to be made to Los Angeles, in the vicinity of which a large part of the west coast aircraft industry was located. The logical result was a decision to transfer the official headquarters of the western Coordination representative to the Los Angeles area.

Changes were also taking place in the Coordination Office in Washington early in 1942. In January, Mr. Johnston severed his connection with NACA. Some time later, Mr. Robinson was appointed Chief of Research Coordination. Other men were assigned to the Coordination Office in Washington, among whom were Harrison C. (Dick) Chandler, Jr., Leland K. (Tom) Smull, who was a recent visitor here, and T. L. Wilson, who has since joined the military services.

Hartman's wife ...

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LIFE AT THE LABORATORY

PARTY TIME: The 19-foot Pressure Tunnel--"Club 199" --enjoyed a dance Dec. 10 at the Chamberlin Country Club.... AWT's Wreckreation Committee sponsored a skating party at the Jeff-Briar Rink Dec. 6. Excluding the bumps and bruises, fun was had by all, especially Marge Bullock who spent most of the evening "on the floor". They climaxed the evening with a bit of harmonizing in a local restaurant....

SEASON ENDS: This touch football the boys have been playing for the past several weeks certainly is no soft touch, judging by the injury list compiled during the season. But everybody apparently had a good time, especially Engineering Section which came out on top. Some of the boys made pretty sad looking sights on Monday mornings, inspiring the cartoon at right. Among the latest victims were Bill Hickman, Structures, who suffered a dislocated elbow in a game against AFR, and Andy Hacskaylo, Tank, who twisted a shoulder muscle in a tussle with the West Shops. In a post-season contest, Tank No. 1 and Tank No. 2 will meet on Dec. 19. Some of the other teams are expected to issue challenges to their favorite opponents before year's end.

MISCELLANY: Bart Geer, Maintenance, was passing out cigars last week. He is the father of a baby girl, Diane, born Dec. 4 at Elizabeth Buxton Hospital. The mother is the former Iris Carr of Structures Lab... Evelyn Fambrough, formerly of 16-foot Tunnel, is the mother of a daughter, Jane Ann, born Nov. 27 in Woodson, Tex... Fern Jackson, 16-foot Tunnel, has gone to Alabama to join her husband at Camp Sibert.... Any one at AID who goes home for more than three days must bring a box of candy back... Don Talmadge, FRM, will undergo a nose operation at New Bedford, Mass., his home... Marcellus (Phil) Edge, Impact Basin, is growing up. At present he is learning to sit in a chair--at the cost of a chair or two to date plus a few dents in the floor.... Gordon F. Harris, Apprentice Administration, is the father of a daughter, Constance Susan, born in Roanoke Nov. 20.

LOVE LIFE: Ralph Schrenell, Engineering Section, was married Dec. 4 in Newark... Louise Mizell, Chief Clerk's Office, is engaged to Joe Parker of Uncle Sam's Navy.... Last week-end brought a new name, Mark, to Agnes R. Morrison, Impact Basin. He's a sergeant at Fort Monroe.

PHONE NUMBERS: Physical Research Office, 332; Physical Research Laboratory No. 2, 331, both of which are located on the second floor of the Administration Building; Illustrators of the Reproduction Section, located on the second floor of the Engine Lab Building, 206.



FEARS TREND OF TALK ON HELICOPTER

"All this talk that the helicopter is to be flown by everyone from grandma to the tired businessman right after the war, for suburban commuting, shopping and going to the movies, is being so hurtfully overdone that we must call a halt to it."

Those are the words of Grover Loening, chairman of the helicopter sub-committee of the NACA, who told a New York audience last week that it will be at least five or ten years before the helicopter becomes a common family flivver.

"As things stand today, the helicopter is an even more professional apparatus than the airplane and not at all a vehicle to be placed in the hands of the public..." He said helicopter operation requires expert coordination of five separate controls and therefore they are "far less suitable for the use of the ordinary layman than the airplane, and the amount of skill necessary is very much greater than is needed to drive a car."

Safety Aces

A

EVERY PERSON WHO IN THE COURSE OF HIS EMPLOYMENT, RECEIVES AN INJURY, NO MATTER HOW SLIGHT, MUST REPORT TO THE DISPENSARY SO THAT PROPER TREATMENT CAN BE GIVEN AS PROMPTLY AS POSSIBLE.

PAINFUL INFECTIONS OFTEN RESULT UNLESS THIS IS DONE.

NO. 1

V

Keep Buying Bonds

Thoughts That Pass In The Type: *THE MAN WHO IS ON TIME STARTS THE DAY WITH A BALANCE IN HIS FAVOR.*

ENGINEERING WINS FOOTBALL TITLE

The Engineering Section's touch football team rolled on to the league championship last Sunday by defeating a stubborn PRT team, 13-6.

The Engineers' first tally came when Blank intercepted a PRT pass and went 25 yards for the score. The try for the point was no good. The second score came on a pass, Schumacher to Nutter. Blank passed to Deis for the extra point.

Starting the second half trailing 13-0, the boys from PRT set up a score on a pass from Nichols to Keith who took it on the 20 yard line and went to the eight before he was stopped by Blank. Cohen scored the touchdown on a pass from Mastrocola.

AFR 21; Structures 6: The AFR team got off to a slow start, but put together three touchdowns and a safety in the last three periods to down Structures and wind up in second place for the season.

Structures scored first in the first quarter on a pass from Dumbo Dobrowski to Dave Ochiltree. Len Bartone's dropkick for the extra point was not good.

Clint Brown and Fred Daum were the big guns in the AFR offensive. A pass, Daum to Erwin, was good for a touchdown in the second quarter. A recovered fumble in the third period made it 8-6 for the boys from Air Flow. In the fourth quarter, another pass, Daum to Brown, added six more points, and Daum scored on a pass for the final touchdown. Daum passed to Brown for the extra point.

8' H.S.T. 13; FRM 8: Early in the first quarter, 8 foot intercepted a pass at midfield and ran it back to the FRM five. The touchdown came on the old "sleeper" play when Mattson passed to Henry in the end zone. The second score came soon after on another pass by Mattson, this time to Fedziuk.

FRM's first score came on a safety when Luoma, who had intercepted a pass from

Reeder, was tagged in the end zone. A pass, Sjoberg to Kleckner, was good for a touchdown. The ball was batted down and bounced off the back of another player before Kleckner caught it.

The second half was scoreless, and ended with 8' H.S.T. in possession of the ball on the FRM one.

Tank 20; West Area Shops 0: After a scoreless first half, Tank took the initiative in the third quarter when Damrotowski passed to Jarvis for a touchdown and to Havens for the extra point. Damrotowski passed to Jarvis for another score in the fourth quarter and Posner converted. With only a few seconds remaining in the game Freihofner took a long pass from Damrotowski for the final tally.

The disputed game between FRM and West Area Shops will be played Sunday, Dec. 12, at Hampton at one o'clock. The game between 16' Tunnel and the 8' H.S.T. will be played at Hampton at 11 o'clock on the same date.

Standings:

Team	Won	Lost	Tied	Pctg.
Engr. Sect.	6	1	1*	.813
AFR	6	2		.750
PRT	4	3	1	.563
Structures	4	4		.500
8' H.S.T.	3	3	1	.500
FRM	3	4		.429
Tank	3	5		.375
16' Tunnel	2	4	1*	.359
West Shops	0	5	2	.143

* The Engineering Section vs. 16' Tunnel game was a tie.

SPOTTED....

The gent in the spotlight on page three was, as if you didn't know, Dr. William Anthony Aery, head of the Selective Service Section.

CIRCULATION NOTE: Did you send anything through the Laboratory's circulation system today? If so, was it properly addressed? If there were several papers belonging together were they securely fastened? Please keep these important thoughts in mind.

NEED MORE DRIVERS TO SHARE RIDES

The "share the ride home" service, started last week by the Bulletin, has met with fair success in assisting members of the Laboratory staff in getting rides home for the Christmas holiday season.

Eight vacancies have been listed in cars bound for various points, and 22 persons have asked for rides. Three of these have been arranged, one to Fredericksburg, one to New York, and one to Detroit. At present the greatest demand for rides is to North and South Carolina and points south as far as Florida and Alabama. Anyone who is interested in driving to Boston could have his car filled on a moment's notice.

Vacancies exist in cars bound for New York, Newark, and Fredericksburg.

Anyone looking for a ride or having vacancies in his car is asked to call the Bulletin Office, 376, at his earliest opportunity.

Bowlers Here Issue Challenge To AERL

A group of ten pin bowlers of LMAL challenges a representative team from AERL in Cleveland to a Postal bowling match.

Mike Panz, West Sheetmetal Shop, believes "a good contest would result even though the two teams were many miles apart at the time".

Mr. Panz makes the challenge on behalf of himself and four others, who are considered among the best bowlers at LMAL: Fred Hodgson, Carpenter Shop; William Morgan, Engineering; Fred Taub, West Machine Shop, and Lester Reynolds, Instrument Lab.

Any other bowlers at the Langley Laboratory, who have an average of 175 or better and who want to take part in the proposed contest may communicate with Mr. Panz.