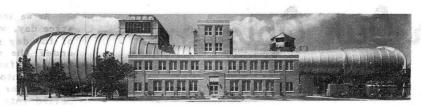
### LMAL BULLETIN







#### LANGLEY MEMORIAL AERONAUTICAL LABORATORY

Issue 47, Vol. 3

Langley Field, Virginia, November 11-17, 1944

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### SPORTS SHOW IS SCHEDULED FOR TUESDAY NIGHT

The Hampton Athletic Association will present an exhibition in several sporting activities at their meeting Wednesday, November 14, at 7:30 p.m. at the Syms-Eaton Center. The exhifollows a period of several months of organizing and getting things in line so the Association may best serve the recreational needs of the community. A large part of the credit goes to Frank W. Long, Director of the Hampton Industrial USO, and Glenn A. Dowling, Director of Recreation for Elizabeth County Club, who played a big part in helping the group get started.

Each activity will be demonstrated by persons who have been trained in that particular field. Included on the program are: Calithentics, Sam Kelly, PRD; Weight Lifting, Joe Maschi, East Model Shop, and Don Lietzke, Construction; Medicine Ball, Bob Jefferies, IRD; Punching Bag, Len Bartone, Structures; Boxing (tentative), Gus Boughan, Structures, and Bob Hammond, Fort Monroe; and Fencing, Warren Tucker and Pete Rossi, AWT.

The public is cordially invited to attend.



- Nov. 13 Opening of second Apprentice term.
- Nov. 14 Hampton Athletic Association Exhibition.
- 7:30 p.m., Syms-Eaton Center Nov. 14 - Community Bridge Club meeting 8:00 p.m., Syms-Eaton Center
- Nov. 15 Basketball League Meeting
- 8:00 p.m., Syms-Eaton Center
  Nov. 17 Full Scale Research Division
  Dance Hampton Country Club.

Any section or organization planning activities may have them listed on the calendar by calling the Bulletin Office, 376.

### NACA FEATURES SHOWN IN NEW A-26 INVADER

The new Douglas A-26, known as the Invader, is the latest U. S. warplane to go into service, and like its many predecessors, it carries earmarks of its association with the NACA and with this Laboratory.

The official news release said, "Combining heavy fire power and bomb capacity with great speed, this twinengined Douglas-built plane was designed specifically for either low or medium altitude operations against enemy aircraft on the ground, tanks and troops on the march or in bivouac, towns harboring enemy troops, antiaircraft emplacements, supply dumps and wharves and naval vessels."

Work on the A-26 was started at the Laboratory as early as April, 1941, and was done in the 19-Foot Tunnel, 16-Foot Tunnel, Spin Tunnel, Flight Research, Cowling and Cooling, AWT, TDT, and Tank No. 2 sections.

E. H. Heinemann, chief engineer for Douglas wrote Dr. George W. Lewis in May, 1943, saying that "performance tests have been completed and we are pleased to report that the airplane (A-26) exceeds its guarantee and expectations in every respect."

According to a subsequent letter received by the Laboratory from Dr. Lewis, the NACA has much of which to be proud. Quoting Dr. Lewis, "Some of the characteristics are: the low-

Continued on page 5

#### PLAN LOOP FOR LAB BASKETEERS

Pete Korycinski has announced that the time has come to start making plans for the coming basketball season. Interested section representatives are asked to meet at the Syms-Eaton Community Center, Wednesday, November 15, at 8 p.m.

The Laboratory league was late getting started last year and Korycinski expressed a desire to get things started early this year.

For further information, contact Korycinski at 286 or Frank Read at 251.

# APPRENTICES' NEXT TERM TO START MONDAY

S. Walter Hixon, Apprentice Administrator, reports that the Apprentice Administration in conjunction with the local War Training Office has completed plans for the second term of war training classes for war production workers which will open at the Hampton High School on November 13. These classes will meet on Monday and Wednesday nights from 7 until 9:30 p.m. and will run for a period of five weeks.

The tentative list of courses offered for the second term include: Blueprint Reading, Shop Mathematics, Algebra, Geometry, Trigonometry, Logarithms and Slide Rule, Analytical Geometry, Physics, Mechanical Drawing, Mechanics and Strength of Materials, (Continued), Machine Shop Theory, Sheetmetal Layout, Metallurgy, Use of Handbooks, Simple Aeronautics, Advanced Aeronautics, and Watchmaking.

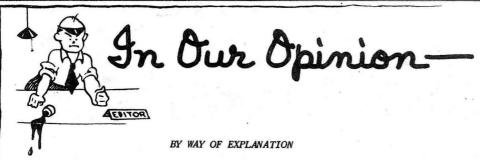
In addition to the classes listed above others may be offered, provided a sufficient number of employees indicate a desire for such a course and it meets with the approval of the War Training Office. Hixon pointed out that the courses are intended primarily for apprentices, but any employee of the Laboratory who is interested in the training program should contact Azile Simmons, Apprentice Office, telephone 256.

# FINAL FIGURES IN CHEST DRIVE TOTAL \$4721

Starr Truscott, chairman of the Laboratory's Community Chest-War Fund Drive, announced Wednesday that \$4,721 had been subscribed toward the Laboratory's quota. This represents the final figure, except for a few more scattered donations.

The Tunnel Area led in total contributions with \$1,795. Donations came to \$1,606 in the Administration Building Area, and \$1,320 in the West Area.

The quota for the Laboratory wa \$5000.



In these two columns will appear the editorial opinion of the LMAL Bulletin, This is the space that we will use to present what we hope will be our unbiased viewpoint on situations that affect the Laboratory and its employees.

To the right of these columns is a space that will be reserved usually for a "Guest Editorial". From time to time, we will ask Laboratory employees or others who have expressed a desire to write, to prepare editorials on suggested subjects, or on subjects of their own choosing. We also invite any employee to submit a proposed editorial for consideration by the editors. "Guest Editorials" will be credited to the writer and will not necessarily express the opinion of the editorial staff. However, they must be in accordance with the following policy of the publication.

"It shall be the policy of the LMAL Bulletin to provide our fellow employees with official and unofficial news and features in a manner which will promote a spirit of friendliness and understanding through fair coverage of those matters that affect our work and interests."

\* \* \*

The Bulletin Advisory Committee and its three working sub-committees have met with the editors and have advised us along general publication lines. They have made suggestions as to the content of the paper, and many of their suggestions, representing a cross section of the Laboratory, have been incorporated into the current publication.

\* \* \*

We have appointed an Art Editor and a Staff Photographer to assist in providing you with a more pictorial and a generally more attractive layout. We have asked several employees to furnish us with written feature material. We again ask every employee to be an active contributor of news items, written articles, drawings, photographs, or ideas or leads for the same. It will be impossible for the editors to cover personally all Laboratory activities every week. Therefore, we must have your help. Get in the habit of becoming a contributor to the Bulletin.

#### ON ARMISTICE DAY

As we look back to the first Armistice day, we note how the major news of the day so often is ground so under the milestones of history. Temporal fads and personal problems flatten into forgotten specks. Group hysteria or best-laid plans are pommelled into an unrecognizable inert

Thus an anniversary often loses its significance because it becomes removed from the original purpose. 'Tis so with Armistice Day. Twenty-six years represent about forty per cent of an average lifetime in this country. During this span, the foundations of civilized society have slipped. Top-heavy structure of material progress is cracked because its footings of "the humanities" have been too weak and too ill spaced.

Optimists ogle the crystal ball and predict a new and glorious postwar era. Pessimists prophesy darkness and chaos. But most of us are middle men in deed and thought. Yet our decisions will determine the plan for tomorrow.

Most of our ancestors were builders in the broadest sense. Their life was stark compared to ours--but less complex. To them, the modern miracles of science and industry were unborn dreams. They griped and disagreed but they developed a habit of building on solid foundations which permitted this nation to grow prosper.

To them, any Armistice Day was a brief pause for prayer and gratitude, after which they would return to work, hard work. But somewhere, somehow we lost the basic blueprint which every nation, large or small, must follow. Too many too often have forgotten the ageless statement of Demonthenes, "It is impossible for men to engage in low and graveling pursuits and entertain noble and generous sentiments".

To us, therefore, this Armistice Day should be a day of rededication and work; rededication to principles and hopes we have so often and so conveniently forgotten until they have disintegrated into dust; rededication to work (and plenty of it) because even the noblest thought can be immoblized by human inertia.

Individually and collectively we continued on page 5



The recent meetings of the Bulletin staff with the chairman of the Bulletin Advisory Committee prompted Dot Severance's latest art creation. Reading from left to right, as if you didn't know, are Foster, Severance, Angel, Hutton, and Merrell.

### STRUCTURES, AWT CLING TO FOOTBALL LEAD

Structures, 26; Engineering, 0
Tank, 20; IRD, 18
AWT, 6; PRT, 0
Stability, 19; 16-Foot, 6
Flight, 6; 8'-LTS, 6
Shops, 6; ALD-19', 6
by Bruce Amole

A full card of games last Sunday made no major changes in the league standings. Structures scored an impressive last half victory over Engineering after two scoreless quarters. AWT, still hampered by injuries, barely got by PRT with a 6-0 win. The boys from 8'-LTS, making their first appearance since their 32-6 drubbing by AWT, showed good form to tie Flight, 6-6. Flight played without the services of Claude Hart and Charlie Forsyth, top running and blocking backs, who were off to Baltimore to see Navy topple Notre Dame. Shops remained in fifth place by means of a tie with ALD-19' in one of the hardest fought games of the season. Stability opened up in the second quarter to down 16-Foot, but the tunnel team from the West Area gave the league its number one surprise of the year by scoring. In the other game, Tank and IRD had one of the most exciting battles of the year. Tank got ff to an early lead but, playing without substitution, they showed signs of tiring in the last quarter andbarely managed to withstand the final IRD assault.

Structures and Engineering played close ball throughout the first half and neither team was able to score. Then, in the third period, the Engineering defense seemed to crumple and Structures tallied twice, once on a pass from Bartone to Anderson and again on a pass from Boughan to Crate. They came back for two more touchdowns in the last quarter. These were scored on a pass interception by McCracken and a pass from Boughan to Ochiltree. Final score: Structures, 26; Engineering, 6. Paul Marchal played an outstanding game for the losers until he was injured in the third quarter.

Johnny Knemeyer staged pretty much of a one man show against PRT. His 60-yard punt return, after a scoreless first half, accounted for the only score of the game. Late in the third quarter, Nick Mastrocola passed to Sam Vollo who dashed forty yards before he was caught from behind by Knemeyer. This was PRT's most serious threat. The hard charging PRT line kept the AWT backs pretty well tied up, and the consistent long punting of Knemeyer was called on to keep the losers out of pay

LOST: In washroom on second floor of Administration Building, blue enamel bracelet with pink roses on each link. Mary Lee, Duplicating.

## FAPOIRIE (1)



Johnny Knemeyer gets off a booming punt in the AWT-PRT game last Sunday. Art Assadourian is the white jerseyed man nearest the kicker. Other PRT men are Nick Mastrocola (7), Paul Trent (6), and Bob Boswinkle (5). Ray Comenzo is blocking Mastrocola while Pete Rossi ducks away from the ball. The two AWT men in the lower left hand corner are Jack Fischel and Hal Johnson. AWT won 6-0 Photo by Saunders

territory, Final score: AWT, 6; PRT. 0 A pass from Korycinski to Strass clicked for 16-Foot soon after the opening kickoff and they went ahead of Stability 6-0. Apparently bowled over by their own success, they remained scoreless throughout the rest of the game while Everett and company racked up 19 points. In the second quarter. Everett fired two 20-yard passes for touchdowns. Marvin Pitkin was on the receiving end of the first one and Johnny Campbell took thesecond. In the third period, Whitey Bostetter intercepted a 16-Foot pass and travelled 40 yards for the final touchdown. He also dropkicked the extra point. Final score: Stability, 19; 16-Foot, 6.

A third period pass interception by Fred Daum enabled Flight to tie 8'-LTS. 8-Foot went ahead in the first quarter on a 60-yard play that saw Luoma pass to Vincke who lateralled to Beiduk who scored. Final score: Flight, 6; 8'-LTS, 6.

The hard work of two triple threat backs, Bill Muhly and Pat Cancro, highlighted the Loads-Shops deadlock. Both teams threatened several times and Shops tallied first when a second quarter pass from Muhly to Bob Little was good for 25 yards and a touchdown. Shops led at the half 6-0. Loads began to put on the power in the third quarter with Westfall and Spaulding opening up big holes in the line. When the Shop line took hold, Cancro passed to Neely for the score. The hard charging Shop line broke through to block the try for the point. Final score: ALD-19', 6; Shops, 6.

Nine tired men from the Tank watched an early lead dwindle away to almost nothing as the hydro team outlasted IRD 20-18. Tank scored in the first quarter when Jarvis went through center for three yards. A blocked punt had set up the play. Len Damratowski picked up his blocked placement and ran it over for the extra point. In the second quarter, Moe Taubenslag flipped a pass to Edwards for a touchdown and IRD was only one point behind. Tank came back on the first play after the kickoff and a sleeper pass from Damratowski to Stewart was good for a score. The half ended - Tank, 13; IRD, 6. In the third period Damratowski passed to Havens for the final Tank touchdown and placekicked the extra point. Then IRD got going. Taubenslag threw two touchdown passes to Hansen in the fourth quarter, the last one coming when there was only 20 seconds left to play. Both extra point attempts failed. Final score: Tank, 20; IRD, 18

Standings:

Standings:				
TEAM	W	L	T	PCTG.
AWT	6	0	0	1.000
Structures	5	0	0	1.000
PRD	4	0	2	.833
Flight	4	1	1	. 750
Shops	3	2	2	.571
Stability	3	3	1	.500
8'-LTS	2	2	1	.500
ALD-19'	2	. 3	. 1	.417
Tank	2	3	. 1	.417
Engineering	2	5	0	. 286
PRT	1	4	1	.240
IRD	0	5	1	.083
16-Foot	0	7	0	.000

### THE DIED OF THE LABORATIONY

WEDDING BELLS: At sundown on Sadie Hawkins Day, Viva Michels, Office of Chief of Mechanical Services, and Texie Belle Felts, Full Scale Tunnel, will drag their

innocent victims to "Marryin' Sam" Despite the fact that they exerted all the energy they had, Alvin Brittingham, West Machine Shop, and Jules Miller, Office of Chief of Research, were still overpowered by their dazzling pursuers, Viva and Texie Belle respectively....Noticing something new on Oscar Lappe's third finger left hand, a Bulletin reporter made an immediate investigation only to find that once again the staff had been scooped. Oscar was married October 21 to Viola Mattila, FGDA....Paul Hunter, FRD, also pulled a fast one on the Bulletin staff. He was recently married to Carol Meyers of Charlotte, North Carolina.



PARTIES: Centered around the theme of historic Sadie Dearborn Day, the Full Scale Research Division will sponsor "the most outrageously lavish extravaganza of the season" on Friday night, November 17, at the Chamberlin Country Club. Anyone desiring an escort may obtain one "fur a redikolusly reezonible fee" from Available Katzoff....ALD had one of their super flings at Oak Point Lodge last Sunday. First prize in the unofficial oyster eating contest went to Helen Wall and Helen Flanagan who consumed equal amounts.



# CHALLENGE OF THE OLD TIMERS ACCEPTED BY THE BRAINBUSTERS

A A A

Not wanting to lower the ego of the old timers too much, the Brain Busters were a bit slow, at first, to accept the challenge recently made by the Hampton Roads Model Association. After much discussion, however, the following decision was made, rushed to the challengers, and submitted to the Bulletin for publication.

"It is very interesting to note that so many old timers have taken such an interest in the model activities which have been going on lately. We feel that the new, active, Brain Busters Model Club has really accomplished a great deal by getting some of the ole gang out again.

"It is indeed a pleasant surprise that the old timers could get up nerve enough to challenge the new, modern model builders. In our opinion, there is no doubt that our new, efficient, and modern designed models have thoroughly outdone anything the old timers could have put in the air. Since the Hampton Roads Model Association, Local Chapter of the Virginia Model Association, affiliated with the Academy of Model Aeronautics, a branch of the National Aeronautic Association, feels that they want proof of the supremacy of the Brain Busters Model Club not a chapter of the Virginia Model Association and not affiliated with the Academy of Model Aeronautics, a branch of the National Aeronautic Association, we do hereby accept your challenge.

"We sincerely hope that we do not take the urge out of you to build models after we have proven our supremacy on the field of battle. Our group would be glad to confer with you at your convenience to arrange the final details."

## D.T.O.S ENGAGED IN SPECIAL WORK

"The staff of the Dynamic Tunnel Operations Shop is busily engaged in making rag dolls!" That staggering statement was delivered Tuesday morning by Dick Everett, supervisor of the shop. A hasty telephone call was made to Joe Shortal who confirmed the story.

Strange as it seems, Everett's cohorts are actually making rag dolls. Tests in the Spin Tunnel have deemed it advisable to determine, for safety's sake, whether the pilot should bail out of a spinning airplane toward the inside or outside of the spin.

Since these tests are made with dynamic scale models of an airplane, the same idea has to be carried out with the pilot. So Everett assigned to Mary Pearson, June McQueen, Olga Atkins, and "Deen" Lilley the job of making 1/24 scale models of a six foot, 200 pound man. These models will be dynamically balanced and the center of gravity correctly located.

Dick said that this was one of the jobs at the Laboratory where women fitted in better than men. He said that his girls are making the dolls out of best quality nylon and are using an Everett-patented overhand buttonhole stitch. His chief worry comes from the fact that none of his proteges are licensed bythe International Federation of Buttonholers, Hemstitchers, and Sewing Machine Operators, and that he fears that he may be called up for operating a "sweat shop". "This", he added, "is no slam at our ventilating system."

Both Everett and Shortal were questioned as to the male figure in the Stability Division, after whom the dolls are being modeled. They looked at each other and said that that was classified information, but Shortal winked and replied, "It certainly isn't Neihouse."



Send your cartoons or your ideas for cartoons to the Art Editor, c/c the Bulletin. Draw them up any size (preferably 2% inches wide, 5% inches wide or 6 inches wide), but use black ink on white paper. Spread the humor around. Ideas? Cartoons? We need 'eml

### LANGLEY

To the household of John W. Crowley, Sr., in the town of Boston, on the morning of May 24, 1899, there came a lusty squall in a combination Boston brogue and downeast twang. "Gus" Crowley had arrived.

Crowley the boy was interested chiefly in sports and engineering. In his high school days he took an active part in both football and baseball. Engineering won out however, and in the fall of 1916, the name of John W. Crowley, Jr. appeared on the freshman class roster at Massachusetts Institute of Technology. The school did not participate in intercollegiate athletics, but Crowley played second base on his class baseball team. He took his B.S. in Mechanical Engineering in 1920.

August 9, 1921 found him at Langley Field. Fifteen minutes after his arrival, he was escorted to the hangar and taken for an airplane ride by Tom Carroll, then chief test pilot. The plane was the Committee's prize airplane, a Vought VE-7. As well as he remembers it, Crowley says that the usual procedure with new engineers was to try them out with flight acrobatics. If their stomach could stand that, then they could presumably stomach the work. He must have had a good stomach; he's still here.

He was attached to the Flight Research Section and about a year later was made section head, in which position he remained for about 15 years. Among his recollections of his early days is "the Committee's first ditching experiment."

The Laboratory was making some pressure distribution studies on an airship at the Naval Air Station at Norfolk. For a period of a year, it was necessary for a group to make almost daily trips across Hampton Roads. At first, these trips were made in a captain's gig, but this ran aground too frequently. Then they tried the ferry, but that took too long. Finally a "Jenny" was assigned to them for the trips. One day, Smitty De France, now Engineer-in-Charge at Ames, was piloting the ship, with Crowley as passenger, when the motor quit over Fort Monroe. Their first thought was to try for the beach, but that was crowded with bathers. Since they had no parachutes, the only other thing to do was to land in the water. (Ed. note: We say "land in the water" because the term ditching was not being used then.) De France set her down gently in shallow water, and the two boys were dunked. The ship was a total loss, due to water damage, but the flyers waded ashore.

Crowley himself explains how he was tagged with his nickname. There was a fellow here called Gus who was transferred. When he left, Crowley's roommate thinking that Gus was too good a name for the Laboratory to be left without, tagged it on him.

### SKETCHES



His athletic prowess came into play again in the middle twenties when the NACA baseball team was raising havoc with other local nines. Among his teammates were Mel Gough, Lefty Forrest, Stumpy Howard, Percy Keffer and Johnny Bergbom. Gus modestly says, "I was star second baseman and manager."

Four years ago he was made assistant to Elton Miller, then Chief of the old Aerodynamics Division. When the Laborawas reorganized last year he was elevated to the position of Chief of the Research Department. He is currently Acting Engineer-in-Charge in the absence of H.J.E. Reid.

In 1930 he married a local girl, Margaret Wells, and they are the proud parents of two daughters. He is a fellow of the Institute of Aeronautical Sciences, a member of Kiwanis and an ex-commodore of the Hampton Yacht Club. His hobbies run to golf and boating and fishing. However, due to the pressure of work recently, he has had to cut down on his leisure time and consequently spends most of what is left on his 38-foot cabin cruiser, Cherie. He is quite a fisherman, having gone after and come back with some of the

### PERVICE NOTE

There was little in the mailbag from our servicemen this week. John Harrington wrote in from "a beautiful coral island in the Netherlands East Indies" and Gene Hicks dropped us a line from Alemeda, California.

John says that all the GI's on his paradise are getting a big kick out of trading with the natives. He has just returned from a month's course at a Pratt and Whitney Aircraft Engine Overhaul School in Australia. John is with the 20th Mapping Squadron of the famed Hawkeve Group.

Gene Hicks' epistle was bubbling over with its usual enthusiasm, and it was almost possible to see his carrot top and cheerful grinbetween the lines. His chief causes for joy are his recent jump to Seaman First Class and the possibility of a leave in the near future.

### DOUGLAS A-26

(Continued from page 1)

drag wing, the new high-speed NACA cowling, the double-slotted flap, and the sealed aileron."

John W. Crowley, Jr., Acting Engineer-in-Charge said, "The A-26 represents a job of which every member of the Laboratory staff can be justifiably proud. It represents a mighty part of an air armada that will lead to victory."

#### ARMISTICE DAY

(Continued from page 2)

need to be freer from prejudice, more aware of our resources and strength, better trained to use them judiciously. The old concept of Peace will not do. The new must be dynamic and permanent.



"big fellows" off the Florida coast. His best local catch to date is a 65 pound bonito, which any local angler will tell you is a good sized piece of fish.

#### DOUGLAS INVADER TESTED IN NACA WIND TUNNEL



### WELCOME MAT LAID DOWN FOR SOLDIERS BY MILLER

Bert "Leatherlip" Miller who has built up quite a following as the hot trumpet man with local jazz bands, is now starting off in a new field, that of "boogie woogie bugle boy of West Sheetmental".

Bert, or "Boit" as it were, has cast a philanthropic eye at many of the new ex-servicemen coming to work, and wondered how he can do his bit to help them get adjusted. He told our reporter the other day, "I been thinkin', see, and I figure that some of these

Joes is perhaps sad about leaving the Army so sudden like, and I thought I would like to make them feel at home as much as I can. So I think to myself, if I was in the Army and I was taken out to work for the NACA, what would I miss the most? The answer is so simple, that I couldn't figure out why I even had to think. It's the bugle blowing at me fourteen hunnert different times a day."

He went on, "Now I can't do this thing as well as the Army can, but I can give some of the boys at least one

bugle call a day. I guess the best call to blow would be reveille, so that's what I'm gonna do. If any of these boys are on the seven o'clock shift, and would like to be awakened (you thought I would say 'woke up', didn't you?) by a bugle, all they have

to do is to call me, listing their name and home telephone number. Then each morning, at six a.m. I will call them up on the telephone and when they answer I will blow reveille. I hope they like it."

Ed. Note: This new service for employees is being done on a voluntary basis, and is of a semi-unofficial nature. Laboratory officials declined to comment on the possibility of having Bert transferred to Personnel Services, saying that they would rather see how Miller's landlady will take it. One official, who shall remain anonymous, stated that if his landlady would put

up with such early morning serenades, it might be a good idea to start a special training course for other local landladies. Tom Hulcher was not available for comment.

By way of a parting shot, Miller added that his services are also available for solos at christenings, church socials, Oak Point picnics and weddings; rates furnished on request. "However", he hastily reminded, "the reveille bugle blowing is strictly for free".



