

AIR SCOOP

LANGLEY MEMORIAL AERONAUTICAL LABORATORY

BRASS WARNS ABOUT G.I. UNIFORM MISUSE

The military authorities have asked that the attention of all civilians employed on Langley Field be called to the following section of Army Regulations, which they have announced they intend to enforce: "It shall be unlawful for any person not an officer or enlisted man of the United States Army, Navy, or Marine Corps, to wear the duly prescribed uniform of the Army, Navy, or Marine Corps, or any distinctive part of such uniform, or a uniform any part of which is similar to a distinctive part of the duly prescribed uniform of the United States Army, Navy, or Marine Corps: . . . Any person who offends against the provisions of this section shall, on conviction, be punished by a fine not exceeding \$300, or by imprisonment not exceeding six months, or by both such fine and imprisonment." The foregoing is contained in AR 600-40-26 and in Section 125, National Defense Act, as amended.

According to the same Army Regulation, distinctive articles of the uniform of the United States Army include the following: badges of qualification, Army buttons, decorations, medals, service caps, service coats, insignia of identification or grade, overcoats, any article of the uniform which includes ornamentation adopted by the War Department or any garment which is of the same design as a distinctive article of the uniform.

HOUSE OKAYS \$400 ANNUAL PAY HIKE

The House of Representatives last week amended the pending pay bill so that all grades would be entitled to a \$400 a year raise, then passed it and sent it on to a joint conference of conferees appointed from both the Senate and House.

The House version allows a raise amounting to more than 18.5 percent for employees whose yearly salary is no more than \$2100. All ungraded positions are excluded.

HARTLEY SOULE GIVES PAPER AT SAE MEET

The NACA was well represented at the annual meeting of the Society of Automotive Engineers held last week in New York. Hartley A. Soule, Chief of the Laboratory's Stability Research Division, delivered a paper entitled "Stability Problems with Swept Wings."

Other NACA speakers were Benjamin F. Pinkel, AERL and formerly of Langley, "Utilization of the Exhaust Gas of Aircraft Engines," and J. R. Spreiter and P. J. Steffen, Ames, "Effect of Mach and Reynolds Number on Maximum Lift Coefficient."

Myron Tribus, now at the University of California, was awarded the Wright Brothers Medal for a report on the development and application of heated wings.

GUESTS TO INSPECT LMAL NEXT MONTH

Between 800 and 1,200 guests, including representatives of aircraft manufacturers and the armed services, will be guests of the NACA at the Fifteenth Annual Inspection scheduled to be conducted at the Langley Laboratory on May 9, 13, and 15.

Approximately 400 manufacturers' representatives are expected to be present at the first day's inspection on May 9 to visit Laboratory facilities and to view various exhibits being prepared by employees here.

The May 13 inspection, to be attended by between 200 to 400 guests, will be especially for representatives of the armed services. The final inspection, on May 15, will be the second section of the May 9 gathering and will also be comprised of from 200 to 400 manufacturers' representatives.

Officials of the Washington Office and Committee members are expected to be present all three days. Representatives of the Ames and Cleveland laboratories will also be in attendance. The same program is planned for each of the three sessions.

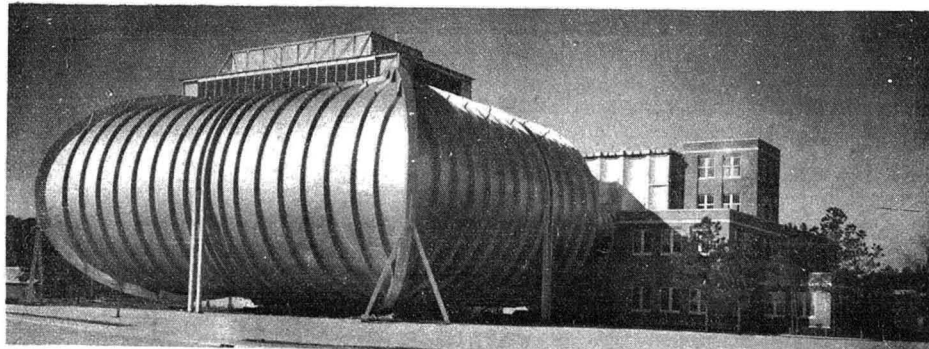
Arrangements for the inspections already are being made and a complete program and itinerary will be announced at a later date. The last such affair, the Fourteenth Annual Inspection, was held in May, 1939, but the war emergency prevented their being conducted since that time.

ANNOUNCE NEW RESEARCH POLICY

Following a joint meeting of the National Advisory Committee for Aeronautics and the NACA's industry consulting committee, it was announced that a national aeronautical research policy designed to insure maintenance of American air supremacy in the future had been set forth. The research policy set forth by the NACA represents a keystone for the construction of an over-all American air policy.

The research policy includes a clear-cut definition of functions of the major technical elements comprising American aviation, with the intent

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One of the most photogenic of the Laboratory's buildings is the 16-Foot High Speed Wind Tunnel. While some of its most flattering likenesses have been photographed from dead ahead, this view from the southeast, taken when silver paint was evidently more plentiful, shows the pride of Johnny Becker, Blake Corson, et al, to a good advantage.

LIFE at the LABORATORY

Lunch time follies in the cafeteria.

was but one of the many suggestions arising from the appearance of a piano in the central hall of the Administration Building Wednesday morning. The instrument had been ordered from a Richmond concern for the Recreation Building, but was supposed to have been held for orders pending delivery. It was deposited in the hallway however, several months ahead of schedule and three miles out of the way. Officials decided they had better have it put quietly out of the way for the time being, so it is now resting with its face to the wall, not too far from the hue and cry.

Working in the same office.

with the Credit Union has its good and bad points. The funniest part of the deal is the variety of names used to refer to Mrs. Elta Carson, the assistant treasurer and chief loan shark. The usual reference is to "the Credit Union Lady." Sometimes they call on the phone and ask for the "Lady with the money." A few throw all caution to the winds and shout, "I want a loan." Depending on the mood of whoever answers the phone they are sometimes let "alone." "Mrs. Credit Union," just plain "Credit Union" and "the loan lady" are a few others, but the cream of the crop is the pet of a lad in West Area who garbles, "Is the long legged lady in?"

Today is the big day.



for Pat Chiarito, renowned Peninsula bachelor, who will discard his long standing, hard earned title to join the ranks of "Ole married folks." Having managed to resist all temptations during his long stay here on the Peninsula, Pat has finally weakened and will marry Marian Dodson in Richmond today.

Another Laboratory romance.

was climaxed last Saturday when Phyllis Riethheimer and Jerry "Capt" Heiser, both of 16-Foot Tunnel, took their final vows.

Full Scale Computers were.

entertained last Saturday with a farewell party for Lola Dodson who is leaving the Laboratory after nine years of service. The party was given by Lois Doran at her home on Ocean View Avenue, Norfolk. Both Lois and Lola have been with the Committee for nine years, coming on duty only one week apart. The Computers wish to express their fond farewells and best wishes.

PRT, one of the oldest Tunnels.

on the field has finally decided after all these years to disband all social activities and go into hibernation with the idea of concentrating all their energy on their new motto, "Work and more work." However, before taking this drastic step, the PRT staff is planning a big blow out in the recreation area Saturday with the main feature being a treasure hunt. Try as we may, we couldn't entice the future hermits to reveal the secrets of the treasure.

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"TAILSPINNER" GIVEN UP

(An Editorial)

With Keen disappointment this week we read of the discontinuance of our contemporary and Langley Field counterpart, "The Tailspinner." During the past three years we have watched the Langley sheet rise from a one page mimeographed bulletin to an eight page, full size tabloid. Now, reassignment of personnel and reappropriation of funds have forced the abandonment of the publication.

"The Tailspinner" served the men and women of Langley Field well. Particularly, in the "Sound Off" column, the average enlisted man on the post was allowed to speak his mind on current topics.

There is talk of reestablishing the paper if convenient means can be found. Langley Field would be making a wise move.

AMES SUPERSONIC TUNNEL TO BE IN 1500 MPH CLASS

The speed of sound may be just a passing fancy with the new supersonic tunnel at Ames. It is the largest supersonic tunnel in the United States and NACA officials place its speed in the 1500 miles-per-hour class.

The Tunnel is designed to operate exclusively above the present limit of human flight imposed by the same phenomenon, the velocity of sound (approximately 760 miles per hour.) In the range of speeds above this natural barrier, until recently penetrated only by pilotless projectiles, tests will be conducted upon models of guided missiles and jet and rocket-propelled aircraft. From this fundamental research will be obtained a knowledge of the design requirements for stable and controllable flight at the tremendous speeds made possible by recently-perfected systems of propulsion.

Accurately-made steel models are mounted in the three-square-foot test section of the new supersonic tunnel. Air is forced through this constricted channel at as much as twice the speed of sound, simulating the conditions encountered by a supersonic aircraft. Power is provided by electric motors totalling 10,000 horsepower driving four three-stage centrifugal compressors which rotate at a constant speed of 5350 revolutions per minute. The heat generated in the compression of the air is removed by passing the air through large water-cooled radiators provided in the tunnel circuit.

Variation of the scale of flight is achieved by changing the pressure inside the tunnel from a near vacuum up to almost three times normal atmospheric pressure. Sensitive regulators maintain the pressure automatically at the desired value. In addition, the humidity of the air in the tunnel can be accurately controlled. Air dryers permit reduction of moisture content inside the tunnel to as little as one per cent of that of normal atmospheric air.

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RECREATION BUILDING TO BE READY BY AUGUST

The Recreation Building in the West Area which is being erected by the Lockwood Construction Company, is expected to be completed by the latter part of June or the first of July. All equipment, furnishings, athletic supplies, and lockers will be installed in the building and it is expected to be ready for use by August 1.

Axel Mattson, Chairman of the social committee, and his group are working on plans for the dedication of the building which will take place around the first of August.

Plans for laying out two softball diamonds to be used by the men's and women's softball leagues this season, are being formulated by the Activities Committee headed up by Chet Furlong, 19-Foot Pressure Tunnel.

Pete Korycinski, President of the LMAL Recreation Association, pointed out that the executive board has met several times with Dolph Henry and Lee Dickinson to outline policies.

Bruce Amole stated that there are two outdoor fireplaces in the recreation area suitable for small group and family picnics. Reservations may be made by contacting Amole at 2386.

AWT TAKES FIRST PLACE IN TOURNEY

For the second consecutive year, the AWT Girls' Basketball team walked off with the championship title in the regular season of play and ended up in top position in the tournament playoffs held Monday night at the Hampton High School gym. Playing their best game of the season and leading all the way, AWT knocked Presbyterian out of the run by a score of 30-16 and were well ahead at half time, 17-8. Jean Scott, AWT guard, played an outstanding game and Becky Boykin was high scorer for the winners with 13 points. Betty Ann Johnson took top honors for the losers with 10 points.

In the playoff for third and fourth positions, 7 X 10 barely managed to take a 13-10 win from 16'-PRT to end up in third place in the tourney play. Minus their high scoring forward, Jackie Poteat, the 7 X Footers put up a hard fight and managed to hold a slight lead throughout the game. They were ahead at half time, 8-5.

SKEET CLUB TO MEET ON TUESDAY

Plans are now underway to organize a Skeet Club and the first meeting will be held on Tuesday, April 16 at 8 p.m. in the Projection Room of the Administration Building. H. J. E. Reid and the Executive Board of the LMAL Recreation Association will be present to advise the group.

All interested persons are urged to be present at the meeting.

PRESBY WINS IN TOURNEY PLAYOFFS

Breaking away to an early lead that put them ahead at halftime 23-12, the Hampton Presbyterians ran away from the 8-Foot High Speeders to win the tournament of the men's basketball league, 40-31.

Howard Taylor was the big gun for the winners, tallying 11 points. Joe Vinoke got a like number for 8-Foot.

The undefeated AWT girls took the short end of a 15-11 count from the All Stars for their first loss in two years. The All Star's points were divided as follows: Maxine Horne, 6; Dot Beadle, 4; Betty Ann Johnson, 2; Leona Hofmann, 2; and Jo Polhamus, 1. For AWT, Becky Boykin got 8 and Louise Crane 3.

Men's score:			
Presby (40)	G F TP	8'HST (31)	G F TP
Davis, f	3 2 8	Perry, f	1 2 4
Taylor, f	5 1 11	Fedziuk, f	0 1 1
Smith, c	3 3 9	Liccini, c	3 1 7
J. Catlett, g	2 0 4	Beiduk, g	3 0 6
N. Catlett, g	3 2 8	Vinoke, g	3 5 11
Quinn, g	0 0 0	Baals, f	1 0 2
Barnby, g	0 0 0	Bastedo, g	0 0 0
Total	16 8 40	Total	11 9 31

LAB EMPLOYEES ENTER DUCKPIN TOURNEY

Keglers at the National Duckpin Tournament in Providence, R. I., this weekend had better look sharply to their laurels, according to Walter Porter, Stocks, who told Air Scoop's reporter that he hoped he had good news to report when he returned next week.

Porter, Dick Haynes of East Engineering, and three teammates from Newport News are entering the tourney in singles, doubles, and team competition. Porter's average for the year is 116-17 and Haynes' is 112-19. Their teammates averaged 123, 114, and 108.

HAMPTON SEALS IN NEED OF PLAYERS

The Hampton Seals, local semi-pro baseball team, are getting ready to start their 1946 season and are on the lookout for new talent, particularly pitchers.

Last year, four Laboratory men played regularly with the team, and business manager Tiny Hutton announced that the club would welcome any newcomers to the squad. Those who played last year were: Pat Cancro, 19-Foot Pressure Tunnel, shortstop; Eddie Polhamus, 7 X 10 Tunnel, third base; Bill Estes, AWT, catcher and outfield; and Luke Liccini, 8'HST, first base.

Anyone interested in trying out for the team is asked to call Hutton at the Air Scoop Office, telephone 2376.

You can still save by buying bonds.

CHALLENGE OTHER LABS IN DUCKPINS

A challenge to the other two Laboratories and the Washington Office for an NACA Championship Duckpin Tournament was issued this week by a fraction at this Laboratory who are anxious to prove themselves the best of the best.

Welter Porter, Stocks, participating in the National Duckpin Tournament this weekend, plans to kingpin the Langley team, providing somebody else doesn't dethrone him.

All Laboratory duckpin enthusiasts, particularly those who have averaged as high as 105 this season are asked to contact the Air Scoop Office and have their names placed on the tentative Langley roster.

Since travel to a central point would be a little out of the question, it is planned to conduct a postal match with each team bowling on the same night.

KOVEN, KLEIN ENTER STATE AAU HANDBALL

Two Laboratory handball enthusiasts, Milton Klein, Full Scale Analysis, and Bill Koven, 19-Foot Pressure Tunnel, are journeying to Charlottesville this week end to enter the State AAU Handball Championship Tournament.

Both men plan to enter the singles and to play as a team in the doubles. Matches will be played on four wall courts.

AMES LAB IN NEWREEL

Those folks who have never been to Moffet Field can get some idea of the massiveness of Ames' Full Scale Tunnel from the current newsreels. Pathe and Paramount cameramen visited the west coast lab a couple of weeks back and took the shots.

The wealthiest college in the United States in terms of endowment is Harvard with a cool \$160,000,000. Yale has \$107,966,849. The only others above \$50,000,000 are, in order: Columbia, Chicago, Northwestern, Texas, and Rochester. Where's Duke?

FOR SALE: New Swiss water proof watch, 15 jewels, radium dial, sweep second hand. Price - \$37.50. C. M. Chambers, Instrument Construction.

FOR SALE: Part share in Cub training plane and in flying club. S. H. Spooner, 19-Foot Pressure Tunnel.

WANTED: One passenger to Columbus, Ohio. Leaving April 18. Frank Hart, Instrument Service.

WANTED: Three passengers to Roanoke. Leaving Saturday morning, April 20 and returning Monday afternoon, April 22. Lucille Coltrane, Newport News - 2-2446.

RESEARCH POLICY

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that maximum technical progress in aviation can be achieved through coordinated effort.

In establishing the importance of research to the many difficult problems connected with civil aviation, the research policy states, "A vigorous civil aviation can affect favorably our domestic and international relations, both economical and cultural. At the same time it will contribute to national security by the support of a reserve of airplanes; operating, development, and manufacturing facilities; and civilians trained in the skills which are critical in time of war."

SOME POSITIONS UNGRADED

Last Friday, Laboratory officials announced that those positions, "the duties of which are to perform or assist in apprentice, helper, or journeyman work in a recognized trade or craft, and skilled, and semi-skilled laborers," would be officially designated as ungraded positions.

Approximately 1000 employees were affected.

COPELAND PARK UPS LIMIT

Copeland Park which heretofore has rented its housing facilities to persons with a yearly income of \$2000 or less will now lease houses to persons with an income of \$2300 or less. For further information contact the Housing Office, telephone 2377.

SUPERSONIC TUNNEL

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Missile or aircraft models are supported in the stream of air on a slender boom extending from a balance which weighs the aerodynamic forces. Lift, drag, and pitching moment acting on the model are transmitted to springs whose deflections are measured by electric strain gages. Simultaneously a sensitive optical apparatus permits the flow of air past the model to be observed and photographed. Details of the flow pattern visualized by this "schlieren" method provide a valuable aid in interpreting the numerical balance data.

Even greater speeds, up to the present foreseeable limits for guided missiles and aircraft, will be reached in another supersonic wind tunnel now nearing completion at the same laboratory. Complementing the present apparatus, it will extend the available range of supersonic testing speeds to an extreme of 3.6 times that of sound—more than 2600 miles an hour—for short periods of time. Having a test section identical with the electrically-driven tunnel to permit interchange of models, this "blowdown" tunnel will operate intermittently from a huge pressure tank. All observations will be made within a period of about ten minutes, in which time the entire supply of high-pressure dry air is exhausted to the atmosphere.

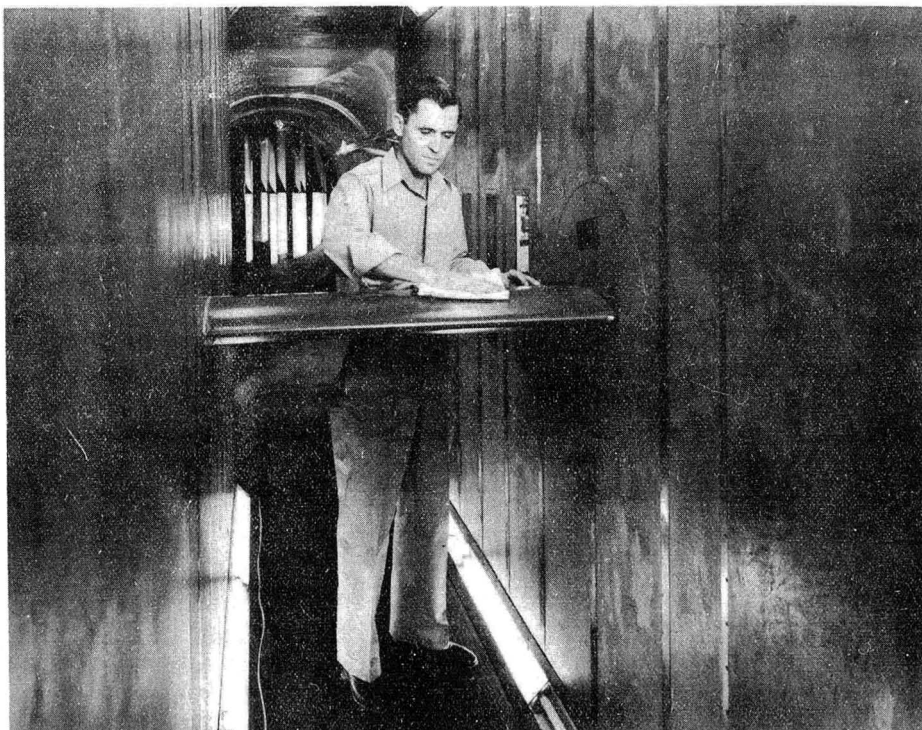
FOR SALE: A portable electric phonograph in red leather case. Fine tone, good pickup. \$35. Tiny Hutton, Air Scoop.

WEST AREA ROADWAY PRESENTS REAL DANGER

The broad road which everyone uses in going to and from the West Area, to short out the drive past the Hospital Area and Golf Course is in reality an airplane thoroughfare. This road or taxi strip, is used by airplanes, in proceeding from the Aircraft Loads Calibration Laboratory to the flying field. Airplanes travel along this strip under their own power in order to minimize the time between ground records and the flight runs. Everyone who knows anything about an airplane has a healthy respect for that invisible disc which contains the revolving propeller. They also know that an airplane on the ground is no match in maneuverability for the average automobile or pedestrian. However you can be assured that the airplane will not come out second best in any encounter with either of the above.

An airplane on the ground proceeding under its own power is dangerous!! The taxi strip was originally provided for the purpose of taxiing airplanes to and from the ALCL. Please remember when you enter this road you are entering a danger area. Keep your eyes open for taxiing airplanes.

Normally whenever an airplane is on the strip men will be stationed at the various intersections to warn you of an approaching airplane. But play it safe - always look carefully in both directions before driving onto the roadway. Another thing, don't under any circumstances leave a vehicle parked on this strip! The entire road is now a "No Parking At Any Time" area.



A tunnel mechanic prepares a model airfoil for testing in the Laboratory's Two-Dimensional-Low-Turbulence-Pressure Tunnel. The model extends between the vertical walls of the wind tunnel. The mechanic is Kenny Singleton.

