Issue 34, Vol. 6

Langley Field, Va., August 29, 1947

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RESERVE SEPT. 12 FOR FALL DANCE

The Morale Activities Association's Fall Dance will be held on Friday night, September 12 at the Activities Building. Dancing will be from 9 'til midnight and music will be furnished by Shelley Harmon and his eleven piece orchestra. Tickets to the semi-formal affair are \$1.50 stag or drag and may be purchased at the door on the night of the dance.

This is the Activities Association's first dance since the hot spell set in back in June so Laboratory employees are invited to come out and start the social season off with a bang.

MAVY CITES NACA FOR D-558 WORK

"A great measure of the credit for the success of the D-558 (Skystreak) airplane speed record flight" was given the NACA in a communication received by the Washington Office from the Bureau of Aeronautics on August 22.

The message of recognition came from the Bureau of Aeronautics shortly after the jet-propelled Douglas craft, piloted by Comdr. Turner F. Caldwell of Arlington, averaged 640.7 miles an hour in four passes over a measured course at Muroc, California, for a new international record.

The NACA's part in the D-558 project became even more a cause for pride on August 25 when the tiny, scarlet Skystreak boosted its own world's record to 650.6 miles an hour - this time with Marine Major Marion Carl of Patuxent River at the controls.

The Bureau of Aeronauticstelegraphed message, a copy of which was forwarded to this Labatory by John F. Victory, Exutive Secretary, stated:

"A great measure of the credit for the success of the D-558 airplane speed record flight is due to the NACA. The highly important introductory research and

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NACA SCIENTISTS EXPLORING CONTROL OF BOUNDARY LAYER

The limited range of new jet airplanes capable of very high speeds has given a new impetus to the search for ways of cutting drag. NACA researchers are currently engaged in study of controlling the thin layer of air, called the boundary layer, that clings to the outer surface of an airplane in flight. If it is possible to keep the flow in this layer smooth and orderly - so-called laminar flow present airplane drag may be cut as much as 15%, meaning 15% less power required and a direct 15% increase in range brought within reach.

Boundary layer control has been known for some time to offer possibilities of considerable reduction in drag. However, for small low speed aircraft the reductions appear to be too small to warrant the devices and expenditure of power necessary to control the boundary layer. With airplanes now flying at speeds approaching the speed of sound, and with the air suction possibilities afforded by jet engines. the reduction of drag by this means may result in an important increase in range.

> A smooth, laminar boundary (Continued on page 4)

TO GIVE AWAY BICYCLE AT BINGO PARTY

The next Bingo Party, sponsored by the Morale Activities Association on Thursday, September 4, at 8:30 p.m. at the Activities Building, should prove a very profitable evening for the lucky winners. In addition to the jack-pot game, a grand prize of a bicycle will be given away. The lucky winner may take his choice of a man's, lady's, or boy's bike.

At the last party no one was fortunate enough to walk away with the jack-pot so this time it will be worth forty dollars and the person bingoing after seven numbers have been called wins. If no one wins the pot will be increased to fifty dollars and eight numbers will be called at the next party.

Fifteen games will be played, in addition to the jack-pot game, and cards may be purchased at the door for one dollar.

The prize list includes the following: Universal pressure cooker, waffle iron, Sunbeam electric iron, sterling silver bonbon dish, electric clock, bathroom scales, individual sterling silver salt and pepper shakers, bill case and card holder, lady's cigarette case, table lamp, case of Budweiser, wool blanket, set of fiesta china, and a surprise package.



H. Granville Derby (right), 8-Foot High Speed Tunnel, who has been selected to head the membership drive for the Hampton Little Theatre during the season of 1947-48, discusses this season's plans with Jack Parkinson, Hydrodynamics Division. The drive will get underway on September 1.

The Air Scoop, an official publication of the Langley Memorial Aeronautical Laboratory, National Advisory Committee for Aeronautics, Langley Field, Virginia, is published weekly in the interest of its employees. Address contributions to the Editor, Service Building, telephone 2376.

Art Editor. Frank McVay Staff Photographer. Bill Taub Reporters Langley Employees The "Air Scoop" is printed by the Mechanical Reproduction Staff and distributed by the Office Service Section Staff.

TUR at the LABORATO

It seems that. . quite a number of Laboratory employees are spending their lunch period picnicking on the lawns of the various building. This is all well and good but several Laboratory employees are taking the picnic spirit a little bit

too far and are leaving all the paper, left overs, trash and what have you laying on the lawns. This not only makes the place look like a dump pile but it also means more work for the Maintenance Crew. The crew is short of help and is not able to go around picking up the trails left behind by picnickers so employees are asked to please cooperate and use the trash cans which have been placed outside of the buildings.

This week Tank #2. . . .

celebrated the arrival of a new member to the division. It was a daughter born Thursday, August 21 and the proud father is Doug King. Mama Daisy used to work in Tank.

Coming to work. . .

with a big sparkler on her third finger left hand was Marie Bird Allen of 16-Foot Tunnel. She is engaged to Jack Burcher of Hampton and Richmond and wedding bells will ring October 4.

Going around with. .

a big grin on his face and acting like a tyrical new father is Chet Furlong of 19-Foot Pressure Tunnel. He became the proud father of a daughter on Friday, August 22. The proud mother, Mary, used to work in the Editorial Office.

Another proud papa. .

is Paul Hunter of Flight Research. He became the father of a daughter on Saturday, August 23.

According to "Wing Tips". . . .

Abe Silverstein, formerly of Full Scale Tunnel now of Cleveland; John W. Crowley, former Head of the Research Department but now of the Washington Office; Russel G. Robinson, Assistant Director of Aeronautical Research; Harvey A. Allen, formerly of Langley now of Ames; and Robert Gilruth, Div. Chief PARD, left New York City last week on an ocean liner bound for Europe. On Tuesday, September 2 they will attend a joint meeting of the Royal Aeronautical Society and the Institute of the Aeronautical Sciences in London, England.

Visiting the Laboratory

this week were three members of the President's Air Policy Commission in Washington, D. C. They were: Thomas A. Finletter, Chairman; S. Paul Johnson, Executive Director; and Grover Loening, Research Specialist. The visitors were accompanied by John F. Victory, Executive Secretary of the NACA.

Another Laboratory maiden. . . .

went and got herself engaged last week and from all reports the ring is really a beauty. The prospective bride is Kitty Simpson, Bell Computers, and she is engaged to "Rusty" Ruggles of Hampton. As yet no definite wedding plans have been announced.

Just a reminder.

that you don't have to come to work Monday because it's Labor Day.



By John Worth

Placing third among the nation's top teams competing for the famed Megow Club Trophy, Brainbusters last week showed up well at the National Meet in Minneapolis. During four days of activity, the team entered and placed in most of the events held.

Pacing the boys, Frank Parmenter, West Machine, came through with a second place in the Wakefield event. Though not scheduled this year as an international classic, this event for rubber powered models, has always attracted a highly competitive field. Frank's performance merits extra consideration as he has concentrated solely on gas power since returning from service. Flying a ship designed by Dick Everett, Parmenter has cast off the "has been" title bestowed upon him - by Everett.

Charles Folk, consistent winner all season, repeated with a third in "C" gas. His total puts him at the top of the club list and should be something of a record.

The Richmond boys won in fine style also. Wasser followed Folk with a seventh in "C" gas and placed tenth in Class "A". Leftwich, last year winner at the Nationals, did it again with a third in the rubber powered stick event.

Details of the meet will highlight the next club meeting which will be the most important to date. All those committed to support the Annual Meet and any others desiring to help are requested to attend. Organizational details are to be presented and the problems on hand need the opinions and decisions of all Brainbusters. Don't neglect this meeting as further meeting activities are dependent upon the results obtained. Be at Syms-Eaton Community Center at 8 p.m. on Tuesday, September 2.

WANTED: 28-foot to 35-foot cabin cruiser. W. Laurents, Inst. Serv.

WANTED: Ride or alternate driver from Buckroe to W. Area on 7°30. Dorothy Greer. Structures.

FOR SALE: Model airplane starting motor, 1 new and 3 newly reconditioned model motors, and 3 Ucontrol speed models. Norman Silvers, Hampton 3-2923.

FOR SALE: Registered Irish setter pups. Bill Hickman, Structures.

19-FOOT LEADS IN PLAYOFFS

Unless Pilotless Aircraft Research pulls an upset, it looks as though 19-Foot Pressure Tunnel is sure to take the Softball Championship Title for the fourth consecutive year.

Last week 19-Boot took the deciding game in the semi-finals from Low Turbulence by a score of 8-5 to move to the final playoffs. Low Turbulence put on a power drive in the seventh inning to score three runs but fell three runs short of tying the game. The losers' outstanding hit of the day was a home run in the seventh by Jack Kinzler. 19-Foot's Stan Spooner connected for a homer in the sixth with one man on base. Winning pitcher Pat Cancro gave up seven hits, walked five, and struck out none while losing pitcher Dale Burrows gave up ten hits, walked two, and struck out one.

As the "Air Scoop" went to press only two games in the finals had been played and the third one was scheduled to be played after press time. However, 19-Foot took both games from Pilotless Aircraft by scores of 10-3 and 5-1 and it looks like a sure bet for 19-Foot unless PARD pulls a few unpredicted tricks from the bag.

In the first game of the three out of five series, 19-Foot had little trouble taking a 10-3 win over PARD. Everybody hit at least once with the heavy hit of the day going to Bloxom with a triple. Winning pitcher Pat Cancro gave up seven hits, struck out one, and walked one while losing pitcher Sam Vollo gave up eleven hits, struck out three, and walked one. 19-"oot chalked up their runs in the first and sixth innings and PARD's three came in the third. Harry Clason was the outstanding hitter for the losers getting two for three.

In the second game played last Tuesday, 19-Foot came out on the winning end of a 5-1 score over PARD. 19-Foot chalked up their runs in the first and sixth with Owen Deters connecting for a homer in the sixth with one man on base. PARD came close to scoring in the sixth with two men on and no outs but failed to make the grade. PARD's lone run of the day came in the second inning on a home run by Jim Parks. Cancro gave up seven hits, walked one, and struck out one while losing pitcher Vollo gave up five hits, struck out three, and walked none.

PLAN TO FORM TENPIN LEAGUE

Plans are underway to form a mixed Tenpin Bowling League. An organizational meeting will be held on Thursday, September 4 at 7:30 p.m. at the Syms-Eaton Community Center. The purpose of the meeting will be to discuss rules and regulations of the league for the 1947-48 season.

Sections wishing to participate in the league are asked to have a representative present at the meeting.

For further information, contact either Ike Edgett, Instrument Service Section, telephone 2216, or John Baker, Sound Lab, telephone 4577.

BRIDGE TOURNEY ON WEDNESDAY

The first in a series of monthly bridge tournaments, sponsored by the Bridge Club, will be held on Wednesday, September 4 at 7:30 p.m. at the Activities Building. The tournaments will be Master Point tournaments and full master points will be awarded to the winners.

According to present plans the tournaments will be held on the first Tuesday night of each month. However, the first in the series will be held next Wednesday due to the fact that the Activities Building has been reserved for an official function on Tuesday night.

All Laboratory employees, whether club members or not, are invited to come out and participate in the tournaments.

SKYSTREAK

(Continued from page 1)

investigation program leading to recommendations on airplane configuration problems was essential in the development of this airplane. I desire to express my appreciation for the Committee's part in this project."

FOR RENT: Room for girl in private home. Breakfast served, living privileges. 333 Pochic Pl. For further information call Dot Kirchmier, 2268.

WANTED: Passengers from Stuart Gardens to East or West Area on 7:30 shift. F. E. Schnidt, 4503.

WANTED: Passengers to W. Area from Newport News on 7:30 shift. Also rooms available for men. Call Newport News 5-1755.

OF LAB EMPLOYEES REPORTING INJURIES

Recently several instances of failure of Laboratory employees to report personal injuries sustained while in performance of duty have been brought to light. At least one of these employees had to pay a large hospital and doctor bill because of this disregard or ignorance of regulations.

Employees are cautioned to report every injury sustained in line of duty to their supervisor and to a Laboratory dispensary. At the dispensary a Form CA-1 will be furnished so that this notice may be in written form. First aid treatment will be provided and the services of a physician will be arranged for if necessary.

Every civil employee of the United States is entitled to receive reasonable medical, surgical and hospital services for injuries sustained in line of duty. If the injury results in disability continuing beyond three days of pay loss, compensation is payable beginning with the fourth day. Written claim must be filed promptly as delay may require denial of benefits.

A pamphlet explaining the principal provisions of the Compensation Act is available upon request at either the East or West Area dispensary. It is extremely important that employee's know their rights under the compensation law. If you do not already have the explanatory pamphlet, obtain one immediately and keep it along with your other valuable papers. You, your family, and your family's future may be dependent upon a thorough knowledge of it.

FOR SALE: Hollywood bed, chest of drawers, small rug, table lamp, and floor lamp. Call H - 5483 after 5 p.m.

FOR SALE: Five room bungalow and furniture. Call Hampton 3-2074 after 4:30 p.m.

FOR SALE: Man's Gruen wrist watch. A. Alexander, Receptionist, or call Hampton - 6448.

FOR SALE: \$\frac{1}{4}\$ horsepower electric motor. D. E. Stewart, Const. Eng.

WANTED: Ride from Cherokee Rd. to E. Area on 7:30 shift. Mrs. Poe, Reproduction.

NACA SCIENTISTS

(Continued from page 1)

layer might be compared to sheets of paper sliding one over another. The layer of air closest to the airplane is practically stationary, while the outer layers are moving successively faster until, at the edge of the boundary layer, the speed is equal to the airstream velocity. In a turbulent, non-laminar layer, air particles do not stay in their ordered "speed layers", but churn back and forth from one to another creating friction. Generally speaking, the thicker the boundary layer, the more friction and drag is created. By steadily removing, through suction, a small amount of the boundary layer next to the surface, the layer can be kept thin and smooth, and lowfriction flow can be maintained.

One means of applying suction is to use the air intakes to the jet engine, drawing air in through slots in the wing to remove boundary layer air where desired.

At high speeds and on very large airplanes, boundary layers are more likely to become turbulent. A boundary layer becomes turbulent more easily in the presence of small structural irregularities such as are usually present on a wing. Prime object of current research is to determine the practicality of controlling boundary layers on aircraft of various sizes and speeds, and to study effects of wing irregularities on boundary layer characteristics.

Increased importance of boundary layer study was manifested in a recent conference held at the Langley Field Laboratory. The conference was attended by military, industry and university research personnel. The meeting was planned to promote understanding of boundary layer problems among designers, and to define objectives of the required research.

FOR SALE: Circulating heater. Falley, Flight Research.

WANTED: Ride from Kecoughtan and Apple Ave. to W. Area on 7:30 shift. Alice Moore, Report Distribution.

FOR SALE: Sofa bed, gas range, desk, dinnette set, etc. Eckstein, 4559.

FOR SALE: 28-foot auxiliary sloop. Starkey, 4-foot Supersonic Tunnel.

FOR RENT: Completely furnished apt. to NACA couple on Sept. 1. Philip Krop, 7 A Elizabeth Road.

OPEN MORE CIVIL SERVICE EXAMS

The NACA Board of U. S. Civil Service Examiners has announced the opening of Civil Service examinations for the following positions: Aircraft Sheetmetal Worker V, \$2787; Aviation Metalsmith I, \$3057; Metal Model Maker I, \$3057; and Model Maker VI. \$3057.

Those who qualify in these examinations may be given a probational appointment leading to a permanent Civil Service status. Those employed under war service or temporary appointments in these positions, who desire to receive probational appointments to their present positions, should apply. An employee serving in a position at a salary above the basic entrance salary for the position in which he is appointed from these examinations, may continue to be paid at his current salary rate if it is not beyond the maximum salary for the position.

For further information or for application forms, call the Board of Examiners, telephone 2226. Applications will be accepted by the Executive Secretary, NACA Board of U. S. Civil Service Examiners, until further notice; however, employees are urged to file within two weeks of the announcement date in order to be included in the first list of eligible names.

FOR SALE: Carmen Jones record album. Played only once. Stan Press, 19'.

FOR SALE: Hand carved ivory chess set and 6 x 30 Schutz-Cassel Prism binoculars. D. J. Germansky, ICL.

C. S. EXAM FOR APPRENTICES SET FOR SATURDAY

All applicants who received admission cards from the Civil Service Board of Examiners are reminded that the examination will be held Saturday, August 30, at 8:30 a.m. in the Morale Activities Building. The Civil Service Register will be set up from the examination and applicants will be selected for apprenticeship at this Laboratory.

Apprentices will be appointed in the following trades and applicants will have opportunity to express trade preference at the time of appointment: Aircraft Mechanic, Electrician, Electronic Mechanic, Machinist, Model Maker, and Sheetmetal Worker.

CIVIL SERVICE NOTICE

The NACA Board of U. S. Civil Service Examiners has amended the examination announcement for the positions Cleaner and Cleaner Foreman. The original announcement stated that applications for these positions would not be accepted from non-veterans. The amendment provides that applications will be accepted from non-veterens, but they will be rated only in the absence of eligibles entitled to veteran preference.

WANTED: Set of women's or men's golf clubs. Buck Barber, Purchase.

WANTED: Ride from Back River Rd. to E. Area on 7:30 shift. Louise Cumming, Files.

AERIAL VIEW OF THE CLEVELAND LAB

