

# AIR SCOOP

LANGLEY MEMORIAL AERONAUTICAL LABORATORY

## ASSISTANCE ASKED IN LOCATING HUB

A four-way propellor hub and power unit, from the 16-Foot High Speed Wind Tunnel Section, has been reported as missing and the cooperation of the Laboratory staff is requested in locating it.

The equipment was sent from the 16-Foot Tunnel in June to the East Erection Shop for certain work to be performed on it, and later was sent to the West Machine Shop. Since it is not now in the Machine Shop and it was not returned to the 16-Foot Tunnel, it is considered possible that it may have been delivered to the wrong activity through error.

It is requested that all supervisors, especially those in the Research Department, institute a search for this property in their particular area.

The lost hub has the following identifying numbers: C5425-D AC-38-2028.

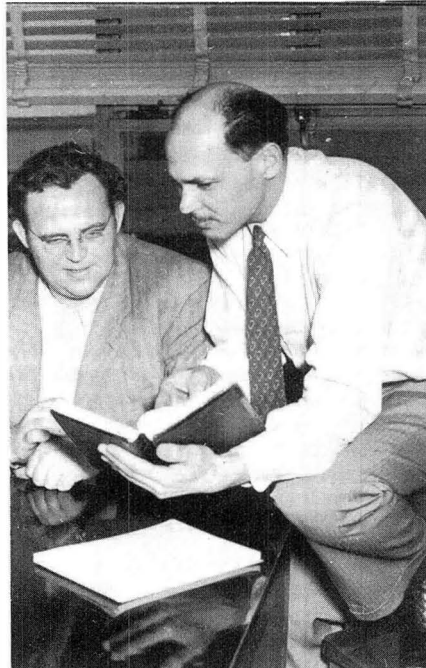
It is a four-way hub, that is, it has machined barrels to accommodate four propeller blades. The hub is splined internally to fit an SAE50 propeller shaft - the minimum dimension between these splines is 3.462 inches. The hub is steel-cadmium plated and has a

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## REMIND EMPLOYEES OF CHANGE IN WORKING HOURS

Laboratory employees are reminded of the change in working hours which become effective at 12:01 a.m. on Sunday. The 8 a.m. to 4:30 p.m. schedule will supersede the present 7:30 a.m. to 4 p.m. shift which has been in effect since May.

The present 7 a.m. to 3:30 p.m. shift will be changed to 7:30 a.m. to 4 p.m.; the 3:30 p.m. to 12 mid-night shift will remain the same; and the 11:30 p.m. to 8 a.m. shift will be changed to midnight to 30 a.m.



Director Tiny Hutton (left) and Producer Dave Goldenbaum discuss plans for the Hampton Little Theatre's forthcoming production of "Three Men On A Horse". Hutton is the former Editor of "Air Scoop" and Goldenbaum is from the Hydrodynamics Division.

## LITTLE THEATRE DRIVE CLOSES

H. Granville Derby, Chairman of the Hampton Little Theatre membership drive, announced that the drive will end today and urged that employees who have not purchased their membership tickets do so today. The tickets are \$1.50 per person and the owner is entitled to see three major productions this season.

He stated further that the Little Theatre will open its season this year with a three-act farce "Three Men On A Horse" which will be presented on Thursday and Friday nights, October 23 and 24 at the Hampton High School auditorium. This marks the Little Theatre's thirteenth season of active work.

Tickets may be purchased from the section representatives or from the "Air Scoop Office, Service Building.

## ANOTHER PAY DAY; ANOTHER BINGO PARTY

Another pay day - another Bingo Party. That is the schedule for Thursday, October 2 when the Morale Activities Association sponsors another Bingo Party at the Activities Building at 8:30 p.m. As usual fifteen games plus a jack pot bingo game may be played for one dollar and cards will be sold at the door.

Attracting more attention now than most of the prizes is the jack pot which has grown to be worth sixty dollars. This time nine numbers will be called and this should be someone's lucky night with the odds getting better and better each time.

In addition to the grand prize which consists of a three piece luggage set the prize list includes: General Electric mixer, Parker "51" fountain pen, universal pop up toaster, case of Budweiser, set of kitchen knives, sterling silver salt and pepper shakers, sterling silver bonbon dish, electric iron, electric clock, waffle iron, and several other gifts to be named later.

## REGISTRATION DATES ANNOUNCED FOR ADULT EDUCATION

Luther W. Machen, Director of Adult Education at Hampton High School, announced this week that registration for the adult education classes to be conducted at the high school will be held on Monday, September 29 and Thursday, October 2 from 7 to 9 p.m.

Courses may be offered in vocation work, business, hobbies, English, and Mathematics.

Machen stated further that it will be possible to hold forums on various subjects such as "Child Psychology" and miscellaneous subjects.

Plans have been made to begin classes on Monday, October 6; however, registrations will be taken continuously during the regular school week days and classes will be organized as often as a sufficient number register for the various courses.

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.

Editor . . . . . Ruth Angel  
 Art Editor . . . . . Frank McVay  
 Staff Photographer . . . . . Bill Taub  
 Reporters . . . . . Langley Employees

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By John Worth

Concentration on publicity for the Technical Conference and annual meet is expected to bring to the public a clearer understanding of club activities.

Tuesday evening at the Chamberlin Hotel, as guests of the Kiwanis Club during their regular dinner meeting, a committee composed of Joe Dodson, West Engineering, Dick Everett, East Machine Shop, Phil Pepon, Spin Tunnel, and John Worth, Flight Research, presented movies of the 1942 Hydro Meet at Portsmouth along with a discussion of model building and the Brainbusters' program.

An exhibition of the major meet awards has been set up and is now on display at Wyatt's in Hampton. Nachman's of Newport News is providing room for a similar exhibition next week.

The club is also broadcasting an informational program Saturday evening at 7:15 over station WGH during the half hour allotted the Jaycee Forum. In addition, spot announcements pertaining to the meet will be aired regularly throughout the week. "Smilin' Jack" in the October 4 and 5 comic strip will mention the club schedule.

Meanwhile, entry blanks already returned indicate that most of the states east of the Mississippi River will be represented at the meet. Many juniors have sent in blanks and extra awards will be given for outstanding performances by those under 18.

Rubber class entries have also come in strongly so that a well balanced contest is expected.



decisions at the annual Stability picnic. Proud possessors of the "scrawniest", "sexiest", "bushiest", and "u-ni-kissed" mustaches will be awarded Grand Prizes as well as having the honor of adding points to their section's score in the bitter fight for the Stability Flaque. This is one crop that the frost can't kill--so stand by for the harvest!

The stork really . . . . .

put in a week of overtime. Another proud father is Coleman Donaldson, Gas Dynamics, and he became the father of a son on Friday, September 19.

## LIFE at the LABORATORY

Tomorrow the Laboratory . . . . .

will lose one of its most eligible bachelors when Jack Paulson, Free Flight Tunnel, gives up his career of ushering and steps into the role of the nervous bridegroom. Paulson will automatically sever all connections with the Bachelor's Club when he takes his final vows with Mary Carter Campbell, formerly of the Editorial Office, in Washington, Virginia. Laboratory employees taking part in the wedding are bridesmaids Maria Tucker, Structures Research, and Lucy Tucker, Library. Ushers will be Johnny Campbell, Free Flight Tunnel; Sig Sjoberg, Flight Research; Chet Furlong, 19-Foot Pressure Tunnel; and Chuck Bennett, Free Flight Tunnel. The wedding music will be played by Mary Noble Bennett, formerly of the East Engineering Section.



Tank still leads . . . . .

the baby derby with the latest addition being delivered to the Eugene Clement household on Sunday, September 14. The new arrival was a son.

7 X 10 is running . . . . .

Tank a close race for top honors with two new additions within the past week. One of the proud papas is Dan Bridges and the new addition was a daughter born on Monday, September 15.

Raising the . . . . .

7 X 10's birth rate another notch is John Reibe who became the father of a son on Saturday, September 13.

Another Laboratory . . . . .

eligible, Byron Burtin, West Machine Shop, will join the ranks of old married folks when he takes his final vows on Saturday, October 4 with Margie Weston.

Passing out cigars . . . . .

in a manner typical of a new father is Jack Reeder, Pilots Office. He became the father of a daughter on Monday, September 22. The proud mother, Frances, used to work in Full Scale Tunnel.

The stork paid . . . . .

a visit to the Ralph Moscatier household on Saturday, September 13. The new bundle from Heaven is a son and the proud father works in West Machine Shop.

Sporting a new . . . . .

sparkler on the third finger left hand is Jean Witherspoon, Telephone Exchange. She is engaged to Floyd Pond of Hampton and no definite wedding plans have been announced as yet.

These Stability men . . . . .

are dead serious about their mustache-growing contest. The race began this aye when the future Clark Gables and Monty Woolleys reported to work clean-shaven carrying their lunch boxes complete with mascara and thermos of hair-grower. These fiends will nurse their growth until October 26 when each will proudly present his pride 'n joy for the judges' de-

## PLAN TO ENTER TEAM IN NEWPORT NEWS LEAGUE

Chet Weislo, Chairman of the Activities Committee of the Morale Activities Association, announced this week that there will not be an NACA touch football league this year due to the lack of interest among Laboratory employees. At the organizational meeting held last Tuesday night in the Activities Building, only one team was represented.

In order to give the few interested players an opportunity to participate in football this season, plans are underway to form a team to enter in the Newport News Community League. Persons interested in playing are asked to contact Ed Hoffman, Tank, telephone 2394, as soon as possible.

## ARONSON TAYLOR IN TENNIS FINALS

The finals in the Girls' Tennis Tournament scheduled to be played last Monday had to be postponed on account of rain. Lucy Taylor, Impact Basin, reached the finals by virtue of a 6-4, 6-4 win over Becky Kin, Gas Dynamics Section. Lucy will meet Alice Aronson, Physical Research Division, next week to decide the championship.

This is the first NACA tennis tournament to be conducted for women and the winner will receive silver cup.

FOR SALE: 15 popular records. Mike Panze, Hampton 3-2274.

WANTED: Alternate driver from Copeland Park to E. Area on 8 shift. L. J. Pursifull, East Engineering.

WANTED: Ride from 32nd and Washington to W. Area on 3:30 shift. Erbie Johnson, 4525.

FOR SALE: Brown karakul fur coat size 12. Call Hampton - 4910.

FOR SALE: 32-foot cabin boat. Contact Fred Posey, Hampton 7514.

FOR SALE: Single bed with beauty rest mattress and springs. Call Hampton 6890.

LOST: Blue Eversharp ball point pen with loose clasp. Reibner, Ability Analysis.

FOR SALE: Boy's bicycle. A. C. Brinegar, West Model Shop.

## 174 OFFICERS INSPECT LAB

Yesterday 174 officers from the Armed Forces Staff College in Norfolk visited the Laboratory and inspected the various research facilities.

Laboratory activities which were visited by the group were: Gust Tunnel, 9-Inch Supersonic Tunnel, 16-Foot High Speed Tunnel, Pilotless Aircraft Research Division, Flight Research Division, and Hydrodynamics Research Division.

## LOST HUB

(Continued from page 1)

four slip-ring commutator attached to its rear face.

It is believed that the power unit is either attached to the hub or in the same box with it. This power unit contains gearing and may be recognized by a dome-shaped electric motor covering on one end and the master annular bevel gear protruding from the other. The unit bolts to the face of the hub proper.

The hub weighs about 60 lbs. and the power unit about 40.

Anyone having information concerning the possible whereabouts of the equipment is requested to notify H. Lee Dickinson, telephone 2331.

FOR SALE: 20 caliber automatic rifle. \$25. Kloetzer, D.T.O.S.

WANTED: Alternate driver from Boulevard section to W. Area on 8 shift. Decker, 4424.

WANTED: Passengers from Marshall Courts to W. Area on 7:30 shift. D. F. Enawiler, W. Maint. Shop.

FOR SALE: Platform rocker with springs, mahogany frame, beige and rose upholstery. Hampton 3-2485.



FOR RENT: Furnished room for gentleman. Mrs. Pierce, 311 59th St., phone N.W. - 3-1966.

WANTED: Ride to W. Area from Copeland Park on 8 shift. Annie Fox, 4530.

## LIONS CLUBS INSPECT LAB

Two hundred and thirty-one Lions club members representing Bowling Green, Tappahannock, Williamsburg, Chesapeake, West Point, Newport News, and Hampton held their inter-club meeting last week at the Morale Activities Building.

During the supper Lion John Dickenson, deputy district governor and master of ceremonies, introduced the host, Dr. H. J. E. Reid, director of the Laboratory. He spoke to the group and gave a summary of the activities conducted by the Laboratory.

After supper the clubs were divided into four groups for an inspection tour of the research facilities. In the course of the inspection they were shown through four of the highly technical laboratories which included the Impact Basin, 16-Foot Tunnel, Full Scale Tunnel, and Flight Research.

FOR SALE: "Elements of Calculus", by Granville, Smith, Langley. "Mathematical Methods In Engineering" by Karman and Biot. "The Elements of Aerofoil and Aircrew Theory" by H. Glauert. Training Office, 2256.

FOR SALE: Portable record player. Bailey, 16-Foot Tunnel.



# AMERICAN TOWING TANK CONFERENCE HERE ON OCT. 7 AND 8

The seventh American Towing Tank Conference of directors of the model towing tanks of the United States and Canada will be held at the Laboratory and at the Newport News Shipbuilding and Dry Dock Company on October 7 and 8. This event will bring to the Peninsula for a two-day session leaders in the fields of naval architecture and hydraulics to discuss technical problems, and to inspect the extensive hydrodynamic research and model-testing facilities in the area.

The members of the conference include Captain H. E. Saunders, Bureau of Ships, Washington, D. C.; Dr. K. S. M. Davidson, Experimental Towing Tank, Stevens Institute of Technology, Hoboken, N. J.; E. S. Turner, National Research Council, Ottawa, Canada; Professor L. A. Baier, Naval Tank, University of Michigan; C. H. Hancock, Hydraulic Laboratory and Ship Model Basin, Newport News Shipbuilding and Dry Dock Co.; and John B. Parkinson, Chief of the Hydrodynamics Research Division of the Langley Laboratory.

Also attending the conference will be Rear Admiral G. O. Kell, USN, Director David Taylor Model Basin; Professor M. Curran, Webb Institute of Naval Architecture; Professor W. S. Hamilton, Northwestern University; Vice Admiral E. L. Cochrane, USN, Massachusetts Institute of Technology and President of the American Society of Naval Architects and Marine Engineers; Rear Admiral H. S. Howard, USN, Stevens Institute of Technology; Dr. Robert T. Knapp, California Institute of Technology; and Professor J. S. McNown, Iowa Institute. Parkinson and Hancock will represent NACA and the Shipyard as joint hosts to the conference visitors.

The visitors will make their headquarters at the Hotel Chamberlin. On October 7 they will hold a morning and afternoon session at the Laboratory and will visit the seaplane towing tanks and Impact Basin. On October 8, they will hold a morning session at the Newport News Shipyard, and will visit the shipyard's hydraulic laboratory and the Mariners' Museum.

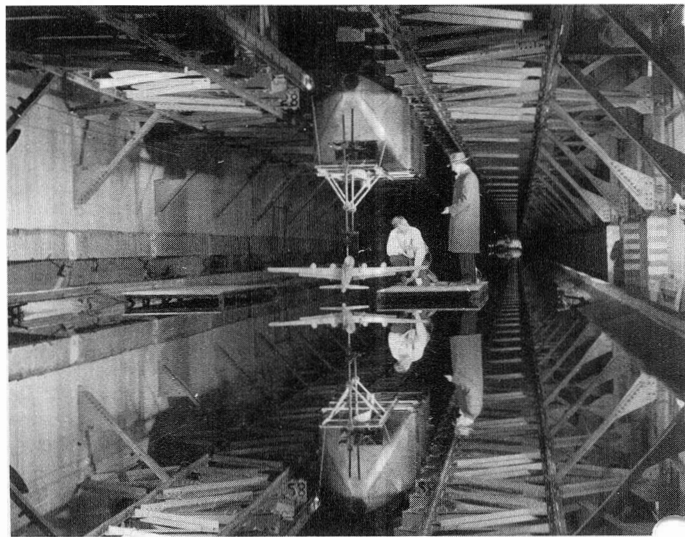
The American Towing Tank Conference was organized in 1938, primarily to coordinate the activities of the organizations represented. Its functions include standardization of methods and procedures used in the member tanks, compilation and correlation of existing

scientific data in the field, and cooperation with similar organizations in Europe. The membership and functions are closely integrated with those of the Hydromechanics Sub-Committee of the Research and Technical Committee of the Society of Naval Architects and Marine Engineers.

Towing tanks have been employed for the past 80 years to predict the performance and behavior of marine craft of all kinds by scientific testing of scale models. In the tanks, the models are towed along the surface of the water in a manner to carefully simulate the full-scale operation of the prototype vessel, and precise measurements are made of their characteristics. The results of the towing tests are then expanded mathematically to corresponding full-scale values.

Towing tanks vary widely in size and purpose. The largest and most elaborate installations in the world are at the David Taylor Model Basin at Washington, where models 20 feet long of naval and merchant-type ships are investigated. Great Lakes and western river craft are studied in the University of Michigan tanks at Ann Arbor. The Experimental Towing Tank of the Stevens Institute of Technology in Hoboken, N. J., does a variety of testing for private clients and governmental agencies using models of the order of 4 feet in length. The Newport News Shipyard has the smallest tank which, nevertheless, investigates models of the largest ocean vessels. It thus provides its own naval architects with the experimental data to "build good ships, at a profit if we can, at a loss if we must, but always good ships." Newport News is famous as the only shipyard in the United States which has its own towing tank to increase the value of its product.

Aeronautical engineers also make use of the towing tank to determine the best form for seaplane floats and hulls. The NACA at Langley Field has two large seaplane tanks for predicting the take-off and landing performance behavior of seaplanes, and a so-called "impact basin" in which the experimental data is gathered for the structural design of seaplane hull bottoms. With these facilities, the Langley researchers are able to provide the aeronautical industry with improved hull forms and fundamental information required for the design of continually better marine aircraft.



Among the facilities to be viewed by the visitors at the American Towing Tank Conference to be held here and at the Newport News Shipyard October 7 and 8 will be the Impact Basin and the two Langley towing tanks. Tank 1

is shown (left) in an early stage of construction in 1930 and an interior of the newer Tank 2 (right) is shown with a model about to be tested. John B. Parkinson, Chief of the Hydrodynamics Division, will be a conference member.