



THREE RECEIVE 20-YEAR PINS

In informal ceremonies held last Friday, Dr. H. J. E. Reid, Director, presented ruby-studded 20-year service emblems to Blake W. Corson Jr., Head of 16-Foot Transonic Tunnel; Roland E. Olson, Head of Tank I, and William J. Loviner, East Machine Shop.

Corson was born in Richmond. He graduated from John Marshall High School and received his B.S. degree in Mathematics from the University of Richmond. He entered on duty at the Laboratory on October 14, 1935 as an under scientific aide at PRT. He transferred to 16-Foot in 1941 and was appointed assistant head in 1944. He was appointed to his present position as head of the tunnel in 1947.

Olson hails from Lake Park, Minnesota. He graduated from Lake Park High School, received his B.S.

(Continued on page 3)

SAFE DRIVING DAY SET FOR DECEMBER 1

Thursday, December 1 has been proclaimed by President Dwight Eisenhower as the National observance of Safe Driving Day.

The safe driving program is intended to demonstrate that traffic accidents can be reduced materially when all motorists and pedestrians do their part.

The Laboratory is cooperating in the program by asking all staff members and their families to make an especial effort next Thursday to concentrate on going through the entire 24-hour period without a traffic mishap.

The watchword of this year's Safe Driving Day campaign is "Make Every Day S-D Day."

A successful observance might make motorists and pedestrians realize that, if they can greatly reduce accidents on S-D Day, they can do so every day in the year.

WHITCOMB WINS COLLIER TROPHY FOR AREA RULE

Richard T. Whitcomb, assistant head of the 8-foot Transonic Tunnels Branch of the Full Scale Research Division, has been officially advised by the National Aeronautic Association that he has been unanimously elected winner of the Collier Trophy Award for his discovery of the Area Rule, revolutionary aircraft design concept.

Election of Whitcomb was made at a meeting of the Collier Trophy Committee in Washington, D. C., on October 7, it was announced by T. G. Lanphier Jr., president of the NAA, custodian of the coveted trophy.

Presentation of the Trophy, for the year 1954, will be made by Lanphier during the annual Wright Day Dinner, sponsored by the Aero Club of Washington, at the Sheraton Park Hotel on December 17. The affair honors the fifty-second anniversary of the first flight at Kitty Hawk in 1903.

Among those who are planning to attend the award dinner are Dr. H. J. E. Reid, Director; Floyd L. Thompson, associate director; John Stack, assistant director; T. A. Harris, chief of the Stability Research Division; Eugene C. Draley, chief of the Full Scale Research Division; Axel T. Mattson, head of the 8-foot Transonic Tunnels Branch, and George B. Colonna, of Hampton.

Whitcomb entered on duty at the Laboratory March 1, 1943, after he was graduated "with high distinction" at Worcester Polytechnic Institute. He was born February 21, 1921 in Evanston, Illinois.

An illustrated article on the Area Rule is included in this week's Collier's Magazine, along with an announcement that Dick Whitcomb is the winner of the 1954 Collier Trophy. Copies of the December 9 issue of Collier's Magazine are now on sale in both the East and West cafeterias.



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LIFE AT THE LABORATORY

Making plans.

to desert the bachelor ranks is Dick Felix, Cascade Aerodynamics. He is engaged to Dorothy Douglas, of Newport News, and the wedding will take place in the late spring.

Diaper Lines.

Passing out cigars and candy is William J. Coley, West Machine Shop. He became the father of a daughter on Saturday, November 19.

The pay day.

game night, sponsored by the Activities Association, will be held on Thursday, December 1 at 8 p.m. at the Activities Building.

Dan Cupid.

scored another victory this week when Sally Madra, Report Typing, announced her engagement to Glenn Wilson, of Hampton. No definite date has been announced for the wedding.

Langley Yacht Club.

members are reminded that election of officers will be held at the meeting scheduled for November 29 at the Langley Boathouse. All members are urged to attend this important meeting.

V.P.I. PROFESSORS TO PRESENT PAPERS

Training Office officials announced that Dr. N. J. Huffington and Dr. Daniel Frederick, both of the Applied Mechanics Department at Virginia Polytechnic Institute, will be at the Laboratory on November 30 and December 1 to present two papers and act as research consultants.

Dr. Huffington will present a paper on "Theoretical Determination of Rigidity Properties of Orthogonally Stiffened Plates" and Dr. Frederick will speak on "Some Problems in Bending of Thick Circular Plates on an Elastic Foundation".

Anyone interested in discussing graduate study at V.P.I. may contact the Training Office, 2256.

COURSES OFFERED AT LANGLEY BASE

The George Washington University Residence Center at Langley Air Force Base announced that the winter semester will start December 5 and 6. Courses offered and the nights on which they meet are as follows:

Monday and Wednesday - English Composition, Spanish II (which will start November 30, and Psychology.

Tuesday and Thursday - Personnel Management.

Monday and Thursday - Trigo-

SOUTER DIES IN MARYLAND

Robert K. Souter, formerly of Flight Research Division, died last Friday at his home in Bel Air, Maryland, after an illness of several months.

Souter was born July 2, 1916 in Scranton, Pennsylvania. He received his B.S. degree in Aeronautical Engineering from Rensselaer Polytechnic Institute in 1938.

He entered on duty at the Laboratory August 1, 1940 as a Junior Aeronautical Engineer in the Loads Section. He transferred to Flight as a meteorologist September 18, 1944. He left the NACA September 17, 1951 to accept a position with the Air Force at Langley.

He is survived by his wife, Marjorie, who formerly worked in Structures Research Division.

FOR SALE: 3 bedroom house with attached garage, Stevens, W-82985.

FOR SALE: Ciroflex camera with case and flash synchronizer - \$34. Thibodaux, NN-27709.

FOR SALE: 3 bedroom ranch house with attached garage - located in Riverside. Peck, Warwick 8-3160.

nometry.

Registration will be accepted until the first class meeting by the Education Services Office, Building T-200 or L.F. 8120.



Tim Letchworth, of Hampton, will entertain the children at the Activities Association's annual Christmas party with a marionette show "Spirit of Echo Mountain."

PARTY FEATURES MARIONETTE SHOW

One of the main attractions at the Children's Christmas Party on Sunday, December 18 at the Activities Building, will be a marionette show, "Spirit of Echo Mountain", by Tim Letchworth of Hampton.

Tim was born July 11, 1935 at Ft. Monroe. He graduated from Hampton high school in 1953. He first became interested in puppets when he was only four years old. When in grade school he put on shows for the other children in the assembly programs.

He started showing his puppets professionally while still in high school and he has made a number of appearances at the elementary schools on the Peninsula. Since his graduation from high school he has devoted his full time to making puppets and putting on shows.

Tim has appeared on WTAR-TV and in 1952 while on vacation in Spokane, Washington, he was asked by Bing Crosby Enterprises to appear on KXLY-TV. He also taught puppetry at the YWCA in Washington and at the Thomas Jefferson Elementary School in Newport News.

Tim makes his own puppets and plans the show. He has shown "Hansel and Gretel", "Beauty and the Beast" and "Spirit of Echo Mountain".

The Christmas party is being sponsored by the Activities Association and tickets may be purchased for fifteen cents for adults or children from the district representatives.

BOWLING NEWS

WEDNESDAY DUCKPIN LEAGUE

16-Foot won 2 games to remain in first place with 20 wins and 10 losses. High game for the night went to Allen Vick who rolled 131. T.P. Wright rolled high set with 337. Top scorer for the women was Ann Wisecarver with a 109 game and 322 set.

STANDINGS

Team	W	L	Avg.
16-Foot	20	10	.666
Rebel Bombers	18	12	.599
I.A.B.	17	13	.566
Hotshots	16	14	.532
West Machine 2	16	14	.532
West Model 2	13	17	.433
Const. Eng.	11	19	.366
Tankers 2	9	21	.300

TENPIN LEAGUE

West End won two games to take over first place with 19 wins and 11 losses. Tied for second are Flight and Spare Oops. Russell Hopko took top scoring honors with a 238 game and 598 set.

STANDINGS

Team	W	L	Avg.
West End	19	11	.633
Flight	18	12	.600
Spare Oops	18	12	.600
Hornets	17	13	.567
Fivers	17	13	.567
Pinbusters	13	17	.433
Rockets	11	19	.367
Fiscal Wrecks	7	23	.233

MONDAY DUCKPIN LEAGUE

East Machine I continues in first place with 23 wins and only 4 losses. Top scores for the week were rolled by Tommy Andrews with a 127 game, John Dupere with a 335 set, Katherine Collie with a 120 game and Shirley Leonard with a 322 set.

STANDINGS

Team	W	L	Avg.
East Machine I	23	4	.851
Stores Branch	17	10	.630
West Machine III	15	12	.556
Vibrators	13	14	.481
PARD	12	15	.444
Ribs	12	15	.444
East Machine II	11	16	.407
Fabrication	11	16	.407
West Model I	11	16	.407
Structures	10	17	.370

MONDAY SPORTS BOWL LEAGUE

Free-Flight Flyers won all 3 games to take over first place with 19 wins and 5 losses. Joe Block was high scorer for the men with a 134 game and 354 set. Tops for the women was Dorothy Ramsen with a 109 game and 308 set.

Team	W	L	Avg.
Free-Flight	19	5	.792
Scotch and Tapers	16	5	.762
Flight	11	13	.458
Gas Dynamics I	11	13	.458
Loads	10	14	.417
Tank	8	16	.333
Gas Dynamics II	6	15	.286



In informal ceremonies held last Friday Dr. H. J. E. Reid (right), Director, presented ruby-studded 20-year service emblems to (from left): William J. Loviner, Blake W. Corson Jr., and Roland E. Olson. --Photo by Taub



The next meeting of the Southeastern Virginia Radio Control Group will be held on Tuesday, December 6 at 8 p.m. at the Activities Building. The feature attraction of the meeting will be a demonstration of a six channel tone transmitter and receiver. This equipment was recently obtained from England and is representative of the multi-channel type now gaining much favor in this country.

Progress on the new club model will be discussed. This is a 12 foot wing-span towline glider which was donated to the group. It is currently being repaired and modified to include both rudder and elevator control. Further modification to add engine power is expected after initial glide tests. This model succeeds the former club plane which finally had a fatal crash on its 117th flight. It is hoped that the glider will permit longer than usual flights so that a greater number of individuals may be permitted to handle the controls.

New models nearing completion are a semi-scale Aeronca Champion by John Moore, Supersonic Aerodynamics, and a Sea Cat flying boat by Ivan Beckwith, also of Supersonic Aerodynamics. Jim Cabbage, Induction Aerodynamics, has revived his

SERVICE PINS

(Continued from page 1)

degree in Chemistry from North Dakota Agricultural College, earned his M.A. in Physics from the University of Buffalo and spent two years doing graduate work at George Washington University. He joined the Laboratory staff on October 8, 1935 as a junior scientific aide at Tank I. He was appointed head of Tank I on March 1, 1946.

Loviner is a native of New Bern, North Carolina. Before joining the Laboratory staff he worked six years as a trainman for the Norfolk Southern Railroad and five years as a machinist at the Newport News Shipbuilding and Dry Dock Company. He entered on duty at the Laboratory on October 29, 1935 as a machinist at East Machine.

WANTED: Lot in Hidenwood section. Lotz, W-82374.

FOR SALE: Combination screen and storm door. Mueller, H-38172.

FOR SALE: 1949 Ford with radio and heater. Berry, H-33258.

FOR SALE: Clear-clean floor furnace with thermostat controls and 150 gallon oil tank. Martin, Warwick 85572.

Kitten, which is several years old, and he may be seen flying more often now that he has received his "ham" license. Dick Jansson, IRD, is finishing up his scale model of a PT boat and hopes to run it shortly.

NACA RESEARCH WINS FIVE COVETED COLLIER TROPHY AWARDS

Award of the Collier Trophy to Richard T. Whitcomb marks the fifth time that the NACA or members of the research staff have won or shared America's top aviation honor.

The coveted trophy, established in 1911, is awarded annually "for the greatest achievement in aviation in America, the value of which has been thoroughly demonstrated by actual use during the preceding year."

NACA's first Collier Trophy, for 1929, was for scientific research at Langley leading to development of the cowling for radial aircooled engines. The cowling, the principle of which is incorporated

in the design of virtually every modern-day airplane, was the result of experiments conducted in 1928 in the Propeller Research Tunnel, dismantled in 1950 to make way for construction of the 8-foot Transonic Pressure Tunnel.

There is a similarity in the achievement which netted the NACA its first Collier Trophy and that of the current winner. Both accomplishments, without the benefit of added power, changed the shape and increased the speed of aircraft - the cowling by reducing air resistance around the previously-exposed radial engine; and the area rule by scientifically pinching the fuselage to cut aircraft drag and enable high-speed jets to move easily past the sonic barrier.

One of the first important practical applications of the NACA cowling was on the Lockheed Air Express - a single-engine monoplane which established a new Los Angeles to New York non-stop record in 1929, with Frank Hawks as the pilot. The time for the flight was 18 hours, 21 minutes and 59 seconds.

The Lockheed Aircraft Company credited the NACA cowling with increasing the airplane's speed from 157 to 177 miles per hour. An official of the aviation firm sent the following telegram to the Langley Laboratory on February 7, 1929, shortly after the historic cross-country flight: "Record impossible without new cowling. All credit due NACA for painstaking and accurate research and generous policy!"

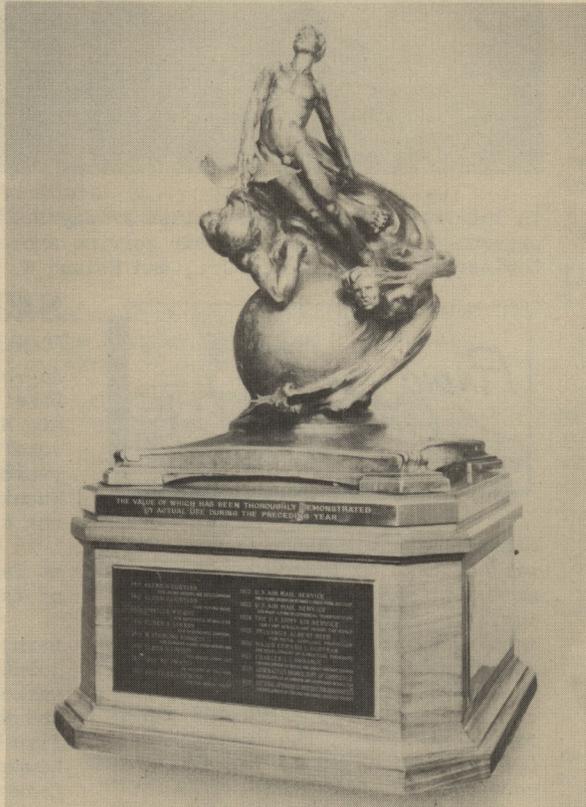
A quarter-century later, application of the area rule design concept on a new all-weather interceptor, the Convair F102, resulted in a speed gain of more than 100 miles per hour without an increase in engine

power. The subsonic F102, modified on the basis of the area rule, became the supersonic F102A, which is now in production for the Air Force.

Another airplane with the area rule is the Grumman F11F-1. The concept, characterized by an indented fuselage at the point where the wings are attached, was drawn into the original design, making it possible for the Navy shipboard fighter to travel supersonically in level flight.

* * *

COLLIER TROPHY



TOP AVIATION HONOR

The 1946 Collier Trophy was awarded to Dr. Lewis A. Rodert, formerly of Hampton and now on the staff of the Lewis Laboratory at Cleveland, Ohio. The second NACA award was for pioneering research and guidance in the development and practical application of a thermal ice-prevention system for aircraft.

Rodert, who served at Langley from 1936 to 1940, inaugurated his study of ice prevention in the Flight Research Division, continuing the project during subsequent service at the Ames Laboratory and later at Cleveland.

The Collier Trophy for the following year, 1947, was shared by

John Stack, assistant director of the Langley Laboratory; Lawrence D. Bell, president of the Bell Aircraft Corporation, and then Captain Charles E. Yeager, Air Force test pilot.

The three were cited for their contributions to the advancement of supersonic flight through the research airplane program, which continues to make aviation history on California's Mojave Desert - where the NACA High-Speed Flight Station has been in operation for nine years.

Stack's share in the three-way award was "for pioneering research to determine the physical laws affecting supersonic flight, and for

his conception of transonic research airplanes." Bell was honored because his company designed and built the Air Force X-1 rocket airplane used in the first experimental flights; and Yeager was recognized for being the first, on October 14, 1947 to fly the stubby research vehicle faster than sound.

Stack received a second Collier Trophy five years later, for 1952, for the development of transonic wind tunnels. Stack and a group of Langley associates were honored for their design of a "ventilated throat" that lets the air flow smoothly through the tunnel test section without troublesome choking effects.

The discovery by Stack and his associates successfully bridged the gap which once existed in wind tunnel research between the subsonic and supersonic speed regions and was credited with giving the United States a head start of at least two years over any potential enemy in the design of transonic aircraft.

Whitcomb's area rule concept was a product of research in the 8-foot Transonic Wind Tunnel, one of three transonic facilities now in operation at Langley. Thus the research tool which brought the NACA a Collier Trophy for 1952 played a vital part in the winning of the latest award.

The Collier award announced this week is the 40th since the recognition program was started in 1911 with the presentation of the first trophy to Glenn H. Curtiss, aviation pioneer, for his successful development of the hydroaeroplane. No awards were made beginning 1917 through 1920 because of the emergency created by World War I.