

# AIR SCOOP

LANGLEY MEMORIAL AERONAUTICAL LABORATORY

## U. OF VA. ANNOUNCES SPRING REGISTRATION

Alfred Gessow, Faculty Chairman of the University of Virginia Extension courses, announced that the registration for the spring semester will be conducted during the week starting, January 20. Contrary to the procedure followed last September, there will be no date set aside for formal registration, thus saving both the students and instructors a special trip to the Hampton High School.

Employees desiring to enroll in one or more courses are requested to contact the Training Office, phone 2256, and state the names of the courses in which they are interested. The names of second and third choices should also be given in the event that the first choice will not be offered. Students will be individually notified during the week following registration whether their class will be definitely offered.

Formal registration will be held during the first class night. Classes are expected to start on February 10 at Hampton High School.

Veterans may enroll without paying the \$15 tuition fee for each course as they may receive the instruction under the G.I. Bill of Rights.

Classes will be offered in any subject which has the minimum number of students. Following is a  
(Continued on page 4)

## WARN EMPLOYEES NOT TO USE BENEDICT AVE.

The Langley Field Base Headquarters has requested that Laboratory employees be reminded that Benedict Avenue, which is the street on which the Base Hospital and Officers' Club are located, is closed to traffic for the purpose of entering and leaving Langley Field. They stated that they wished to warn NACA employees again of this fact before apprehending them for this traffic violation.

The traffic problem is now being studied by Laboratory officials and the Army with a view to making changes to reduce the congestion.

## DOUGLAS "SKYSTREAK" BUILT FOR SONIC BARRIER ASSAULT

### "MARCH OF DIMES" DRIVE NOW UNDERWAY

"March of Dimes" containers have been placed in the various buildings at the Laboratory as a means of affording employees an opportunity to contribute whatever they desire in the fight against infantile paralysis.

Fifty per cent of all collections will remain in the local community for use in the treatment of polio victims. The other fifty per cent will go to the National Foundation for Infantile Paralysis for financing polio research and for use during epidemics.

Laboratory employees are reminded that they or any member of their families are entitled to aid when polio strikes, regardless of their financial ability to pay.

Mrs. Lenore D. Hulcher is directing the Laboratory's participation in the "March of Dimes." H. Lee Dickinson, secretary of the Elizabeth City County Chapter of the National Foundation, is selling tickets for the "Birthday Ball", to be held Friday, Jan. 31, at the Hampton Country Club.



Robert T. Jones, formerly of Stability and Control, receives the 1946 Sylvanus Reed Award of the Institute of Aeronautical Sciences. See story on page 4.

Further evidence of NACA participation in America's assault on the sonic barrier was revealed in the January 6 issue of "Aviation News", which announced the completion of the Douglas D-558 "Skystreak" transonic research airplane at the El Segundo plant.

The flight test program of the "Skystreak" will begin early this spring at the Muroc Army Air Base, after which it will be turned over to the NACA, which accomplished most of the preliminary design work in the Langley Laboratory over a period of more than two years.

The "Skystreak" is reported as another step in the program of transonic flight test research begun with the Bell XS-1, already undergoing Army acceptance tests at Muroc. The D-558 is a project of the Navy Bureau of Aeronautics and is designed to test the usefulness of low aspect ratio wings in the transonic zone. Another airplane, now under construction, will be used to test the effect of wing sweepback.

Powered by a General Electric TG-180 axial-flow turbojet engine developing 4,000 lb. static thrust, the "Skystreak" will take off and climb under its own power, in contrast to the XS-1, which is dropped from a B-29 at high altitudes. As in the XS-1, the D-558 was designed to load factors of 18, more than twice that of current reciprocating engine fighter planes. The wing is of conventional spar-rib-skin construction instead of the solid wing used on the XS-1.

(Continued on page 4)

## DISCHARGED ACER'S

Laboratory employees, who, within the past few months, have requested discharge from the ACER and been granted a discharge, should, without delay, (1) report the date of discharge and (2) present their discharge, signed and fingerprinted, to Selective Service Office, 115 Service Building, phone 2368.

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.

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## LIFE at the LABORATORY

Rather than "Life at the Laboratory". . . . .

a more appropriate name for this column seems to be "Marriages and Births", but as long as people continue to get married and have babies it'll just have to remain that way. First on our marriage list is Lawrence Gale, Spin Tunnel. He was married Sunday, January 12 to Harriet Frost of Newport News.

One of the Laboratory's. . . . .

proudest papas is "Air Scoop's" Art Editor Harry DeVoto. He became the father of a six pound, six ounce son, Danny, on Saturday, January 18.

Another proud father. . . . .

passing out cigars Monday was Pat Chiarito, Structures Research. He became the father of a nine pound, seven ounce son, Roger Patrick, on Saturday, January 18.

Wedding bells rang. . . . .

last Saturday when Curtis Burt, Jr. Messenger, took his final vows with Frances Sansone.

Dan Cupid scored another victory. . . . .

recently when Sybil Bateman, Structures Research, married Lavern "Pete" Pipho in Wavelly, Iowa. The couple has just returned from a honeymoon in Waterloo, Iowa.

Another birth that seemed. . . . .

to slip by us was the arrival of John Michael to the L. I. Turner household. The proud father works in Compressibility Division Office.

Passing out cigars. . . . .

last week was Ralph Pernula, Instrument Service. He became the father of a son, Robert John, on Sunday, January 12.

A word of thanks and appreciation. . . . .

to the Payroll Office for the splendid job they did of mailing out checks to employees during the holiday season. Seven hundred checks were sent to various corners of the globe and not one was lost.

At the NACA Incinerator last Monday. . . . .



men were seen literally jumping out of windows and running for their lives. It seems that somebody made a mistake and placed a large quantity of highly inflammable and explosive motion picture film in with the regular trash and before the debris was thrown into the furnace the film was ignited. Employees are reminded that all film must be removed by Fire Prevention Service, telephone 4444.

**FOR SALE:** Living room, dinette, and bedroom furniture, rug, and dishes. Will sell separately. May be seen all day Saturday, Harry DeVoto, 46-C Elizabeth Road, South Hampton.

**LOST:** Tan leather glove, size 6 1/2. Finder please return to Betty Lew Hayward, Flight Research.

**FOR SALE:** Four rooms of furniture, rugs, drapes, radio, washer. Not sold separately. 448 E Street, Copeland Park.

**WILL SELL:** Or trade new 30 Remington rifle and shells for 12 or 14-foot ribbed boat. H. J. Slear, Hampton - 4935.

## LITTLE THEATRE CAST SELECTED

The cast and production staff for the Hampton Little Theatre's forthcoming presentation of "The Enchanted Cottage", have been announced by Mrs. John B. Parkinson, director, and Mrs. George B. Colonna, producer.

Heading the cast in the romantic roles of Oliver Bashforth and Laura Pennington will be Frank Hilsdon and Dorothy Alfrey. Major Hillgrove will be portrayed by Capt. Will F. Maguire of Langley Field, and H. Granville Derby will play his one-armed valet, Rigg. Minnie Roy will enact the part of the housekeeper, Mrs. Minnett. Mr. and Mrs. Smallwood will be played by John B. Parkinson and Stella Colonna with Willis Cowling and Mrs. Willard Miller completing the speaking cast as the Reverend and Mrs. Corsellis.

Members of the dream sequence, as announced by Mrs. Parkinson, will include: three young couples, played by Margaret Roberts, Pat Wise, Nancy Workinger, Robert Ruggles, Bobby Harrell and Crickett Burr; Nancy Wall, Julia Welch, Anne Ruggles, and Marge Hutton as four bridesmaids; and Irene Farster and Winifred Hughes as two witches.

Assisting Mrs. Colonna will be the following staffs: Program - Mrs. John B. Parkinson, Granville Derby and Crickett Burr; House Manager - T. Melvin Butler assisted by Paul Taylor and John Houbolt; Publicity - Crickett Burr; and Box Office - Miles E. Farster aided by Mrs. John D. Williams, George B. Colonna, and C. A. Hulcher.

## EMPLOYEES MUST CARRY PASSES

Laboratory employees are reminded that they are still required to have a Laboratory identification badge or card pass in their possession during the time they are on Langley Field.

Although military authorities ceased checking identification at both gates for several weeks, this did not absolve Laboratory employees of the responsibility for keeping their identification on their person.

Military authorities have again begun checking identification, especially among those riding to work on public transportation vehicles. All employees are advised to be prepared in the event their identification as a Laboratory worker is requested.

# SEALS LEAD MEN'S BASKETBALL LOOP

The Seals are currently leading the Men's Basketball League with four wins and one loss while three teams, 8-Foot High Speed Tunnel, 19-Foot Pressure Tunnel, and West Shops are battling for the number two position with three wins and one loss each.

The three games played last week turned out to be strictly one-sided with 19-Foot taking a 29-12 win from PRD; 9-Inch Supersonic Tunnel walking over Flight Research with a final score of 39-11; and West Shops trouncing IRD 30-19.

In the 19-Foot versus IRD game, the winners held onto a good lead throughout the game and put on a power drive in the final quarter to add ten more points to their score. Pat Cancro was the big gun for the winners scoring 15 points and Ed Kilgore came through with 8 of the losers' 12.

9-Inch Supersonic had no trouble with their 39-11 win over Flight. 9-Inch held the losers to a 6-0 score in the first quarter; 17-3 in the second; 29-7 at the end of the third; and a final score of 39-11. Jim Huggett and Lowell Hasel were top scorers for the winners with 14 and 12 points respectively.

West Shops took a 30-19 win from IRD to give the losers their second defeat of the season. IRD almost caught up with the Shop boys at halftime with a score of 16-14, but fell down in the last half to lose 30-19. Jim Munden chalked up 10 points for the winners and Jim McConnell and Judson Ellis scored six points each for the losers.

### STANDINGS

Team	W	L	Avg.
Seals	4	1	.800
19-Foot	3	1 1/2	.750
8-Foot	3	1 1/2	.750
West Shops	3	1 1/2	.750
Stability	2 1/2	2	.500
IRD	2 1/2	2	.500
9-Inch	2	3	.400
16-Foot	1	2	.333
Flight	1	3	.250
PARD	1	3	.250
PRD	1	3	.250

WANTED: Girl to share large bedroom with twin beds. Call Ethel Mahone, 107 Wythe Crescent Drive, Newport News - 6-1062 or Blanche Sponsler, 4570.

WANTED: A surveyor's transit or a contractor's transit-level. L. P. Tosti, Free Flight Tunnel.

# BOWLING NEWS

## TENPIN LEAGUE

Under the leadership of Dan Savitsky, captain, the Pinbusters came out on the top end of Round I of the NACA Tenpin Bowling League with 28 wins and 8 losses. They also captured high team game and set for the round with 853 and 2402. Playoffs between the Pinbusters and winners of Round II will be held at the end of the season.

High individual games were made by Shepard Levine, Maplemaulers, with 243; Raoul Pugg, RC&T, 234; and Johnny Neff, Psztech, 234. High scorers for the women were Dorothy Moore, Guttersnipes, with 147; Reachie Warlitner, Fiscal Wrecks, 147; and Ann Robinson, Fiscal Wrecks, 146. Leading the high averages are Luke Liccini, Pinbusters, with 175 and Ann Robinson with 118.

## MONDAY'S DUCKPIN LEAGUE

In the Monday night duckpin league, 16-Foot Tunnel is still in the number one position with 25 wins and 11 losses and Sound Lab is in the two spot with 27 wins and 12 losses. In the games rolled last Monday night, Rogers of Electrical made 130 and Bobby Buckner, Full Scale #2, 110 to take top games for the evening. High sets were rolled by Harry Davis, 19-Foot, with 340 and Lillian Brown, Full Scale #2, 275. Electrical rolled the high team game and set with 539 and 1520.

Leading the high individual averages are: Harry Davis with 102.5; Carl Rossman, Structures #2, 99.9; I. B. Bloxom, Jr., 19-Foot, and Ed Kruszewski, Structures #1, with 99.6; Marge Wilson, Sound Lab, 91.5; Lillian Brown, 90.6; and Saddle Miller, Structures #1, 89.2.

### STANDINGS

Team	W	L	Avg.
16-Foot	25	11	.695
Sound Lab	27	12	.692
Structures #1	23	16	.590
19-Foot	22	17	.564
Tank	20	16	.556
Structures #2	19	17	.528
FST #2	19	20	.487
FST #1	17	22	.436
Administration	14	25	.359
Electrical	13	26	.333
Computers	11	28	.282

## WEDNESDAY'S DUCKPIN LEAGUE

Three teams, Physical Research, 8-Foot High Speed Tunnel, and IRD RC & T, are tied for the number one position in the Wednesday night duckpin bowling league with 24 wins and 12 losses each. In the games played last week, Harold Youngblood, Report Typists, bowled a 339 set.



Player	Team	FG	F	TP	G	Avg.
Polhamus	Stab.	22	1	45	4	11.2
Gallaher	Seals	20	3	43	5	8.6
Liccini	8'HST	14	7	35	4	8.7
Teitelbaum	PARD	16	2	34	4	8.5
Dawson	Shops	14	4	32	4	8
Jaquis	PRD	14	4	32	4	8

# PLANS UNDERWAY FOR MODEL MEET

BY JOHN WORTH

Interest in the coming series of rubber powered speed contests to be conducted by the Brainbusters Model Club is mounting as completed models are undergoing initial tests. At least half a dozen speed models are now ready for flight and club members are carefully trying them out.

First public showing of the speedsters is expected Sunday afternoon in the West Area during which time official AMA record trials will be held for all types and classes of models. Spectators are invited to attend the day's activities which will see gliders, rubber, and gas powered models being flown. With a break in the weather that has kept Brainbusters grounded recently, considerable flying is expected.

On Tuesday at 8:30 p.m. the club will meet at the Hampton Model Shop to discuss further plans for the next few week's activities. As always, Brainbuster Club meetings are open to all those interested.

His last game of 144 included three successive strikes in the eighth, ninth, and tenth frames. Lou Nucci, 8-Foot, was second with a 328 set and Marge Zender, Ragouts, led the women with 292.

### STANDINGS

Team	W	L	Pct.
PRD	24	12	.666
8-Foot	24	12	.666
IRD RC & T	24	12	.666
LTS	22	14	.612
Deadducks	19	14	.577
Inst. App.	19	17	.528
Ragouts	17	16	.515
Deadpins	15	21	.417
Report Typists	13	23	.361
Rocketeers	11	25	.306
Atomic Bombers	8	28	.222

## "SKYSTREAK"

(Continued from page 1)

The "Skystreak", which is presently undergoing installation tests, will be completely instrumented during flight tests to obtain measurements of air pressures, control forces and structural loads in flight. Extensive instrumentation will be employed on the engine to determine jet pressures, temperatures and fuel consumption at high altitudes.

The Navy contract with Douglas specifies the construction of "several" of the planes, although the exact number has not yet been revealed. All will go to the NACA eventually for incorporation of various wing shapes and sizes during the test program. Another "Skystreak" version is being built for the Army Air Forces known as the XS-3.

The D-558 is the second step in an extensive series of progressive aircraft designs and modifications for investigation of transonic speed problems. Later models, now under construction, will be designed for wholly supersonic speeds, although final forms of these models must await the tests on the XS-1 and the D-558, "Aviation News" commented.

## EXTENSION

(Continued from page 1)

sample list of courses which have been given in the past.

College Algebra, Analytic Geometry, Differential Calculus, Integral Calculus, Advanced Calculus, Differential Equations, Functions of a Complex Variable, Vector Analysis, Operational Calculus, Partial Differential Equations, Theoretical Mechanics, Physics (Heat, Sound, and Light), Electricity and Magnetism, Strength of Materials, Advanced Strength of Materials, and Fluid Mechanics.

Theory of Elastic Stability, Mathematical Methods in Engineering, Elementary Thermodynamics, Theoretical Aerodynamics, Aerodynamics of Compressible Flows, Elementary and Advanced Supersonics, Airfoil Development, Appreciations & Predictions of Flying Qualities, Applications of Aerodynamic Theory to Stability & Control, Fundamentals of Aeronautical Engineering, Principles of Rotary Wing Aircraft, Radio Engineering, Electronics, Aircraft Instrumentation, Technical German, Technical Russian, and Elementary Spanish.

nickname is the hardest stone that the devil can throw at a man.

--Quoted by Hazlitt

## FORMER EMPLOYEE RECEIVES AWARD

Robert T. Jones, former head of the Stability and Control Division but now with the Ames Laboratory, has been honored with the 1946 Sylvanus Albert Reed Award of the Institute of the Aeronautical Sciences. The award consists of an honorarium and a certificate which cites his selection "for his contributions to the understanding of flow phenomena around wings and bodies at speeds below and above the speed of sound."

Jones' most prominent achievements have been in the field of dynamics of airplane motions, development of shapes for supersonic flight, and the combination of these two fields to achieve accurately controlled flights of missiles at high speed. His outstanding contribution has been the reduction of the complexity of mathematical stability theory to practical engineering form useful to the designer. He was the first man in this country to visualize, study, and publish results on the advantages of swept-back wings for high speed flight.

Fellowship in the Institute has been conferred on Russel G. Robinson, Assistant Director of Aeronautical Research of the NACA; Addison M. Rothrock, Chief of Research at AERI; and Abe Silverstein, Chief of the Wind Tunnel and Flight Division at Cleveland.

These honors, together with the Reed Award, will be formally presented at the Annual Honors Night Dinner of the Institute on January 27 at the Hotel Astor in New York.

During the week of the I.A.S. meeting, the American Physical Society will meet at Columbia University from January 30 to February 1. At this meeting, two papers will be presented by two former employees. Arthur Kantrowitz, formerly of FGDA now of Cornell University, will present a paper on "Formation and Stability of Normal Shock Waves in Channel Flows" and Dr. Bruce Hicks, formerly of the Supercharger Section now of Aberdeen Proving Grounds, will present the other paper.

**WANTED:** Four man driving group would like additional man to drive one day a week from South Hampton to East Area on 8:15 shift. Contact R. L. Girouard, Hampton - 7778.

**FOR SALE:** 17 jewel Bulova wrist watch with gold band. Only five months old and in excellent condition - \$30. Hampton - 8931.

## COMING EVENTS

Printed below is a calendar of events scheduled to take place in the Activities Building throughout the next week. A few dates are still available for basketball practices. Practice hours may be reserved by calling Arty Assadourian, Flight Research, telephone 2264.

- Jan. 27 - 5-6:30 - Skyhawk practice.
- 7-10 - Girls' Basketball
- 7-8 - Loads versus Presbyterian.
- 8-9 - 16-Foot versus Administration.
- 9-10 - PRD versus AWT
- Jan. 28 - 7:30 - Bridge Club
- 6:30-10 - Men's Basketball
- 6:30 - PARD vs. West Shops
- 7:45 - 16-Foot vs. IRD
- 9:00 - Seals vs. PRD
- Jan. 29 - Men's Basketball
- 6:30 - 8-Foot vs. Flight
- 7:45 - 9-Inch vs. Stability
- 9:00 - 19-Foot vs. West Shops
- Jan. 30 - 5-6:30 - Skyhawk practice.
- Jan. 31 - PARD Party
- Feb. 1 - 7 p.m. - Radio Group Steak Supper.

## REGISTRATION FOR BUSINESS COURSES

Persons interested in training for typing, shorthand, or bookkeeping should register at Hampton High School on Monday, January 27. Classes, which will meet each Monday and Thursday evenings, will start when enough people have registered. Application forms may be filled in at the registration desk near the Victory Avenue entrance of Hampton High on Monday and Thursday from 7 to 8 p.m. or at the Vocational Education Office from 9 a.m. to 4:30 p.m. on school days.

These courses are available through the cooperation of the State Department of Adult Education with the Hampton Public Schools and a certificate will be awarded to each person satisfactorily completing the courses. For additional information call Hampton - 6135.

## CLUB HOLDS FINAL SALON JANUARY 29

The Hampton Camera Club will hold the last in a series of salons on Wednesday, January 29, at 7:30 p.m. at the Hampton USO. The members, acquiring the greatest number of points during the contest series, will receive awards. All camera fans are invited to attend the exhibition.

Matrimony. - the high sea for which no compass has yet been invented.

--Heine