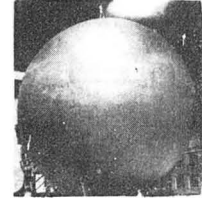
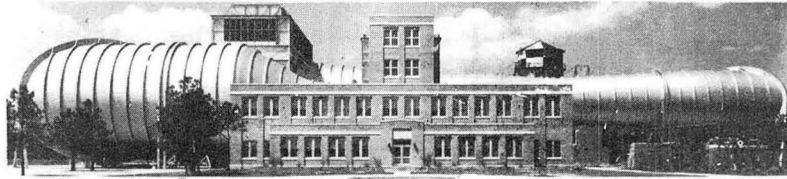
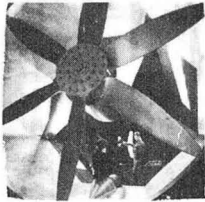


LMAL BULLETIN



LANGLEY MEMORIAL AERONAUTICAL LABORATORY

Issue 38, Vol. 3

Langley Field, Virginia, September 9-15, 1944

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LITTLE THEATER OPENS SEASON

Laboratory employees will have the opportunity of becoming members of the Hampton Little Theater for the coming season during the membership drive which will be conducted next week.

George B. Colonna, president of the group, is heading the drive and memberships at the Laboratory will be handled by Tiny Hutton and the following persons; Hangar, Bunny Klawans; 19' Tunnel Building, Jerry Teplitz; Tanks, Dave Goldenbaum; Engineering, Ann Elksinin, PRT, Phyllis Parker, 8' HST, Millie DeVine; Full-Scale Tunnel, Charles Kelly, Utility Building, Pat Patterson; Low Turbulence-Two-Dimensional Tunnel Building, Seymour Bogdonoff; AWT, Billie Warren; Technical Service Building, Carrie Love, Annie Young, and Eloise Lada; Administration, Elizabeth Scott and Ida Young; Impact Basin, Sid Batterson; 16' Tunnel, Blake Corson; Structures, Pat Chiarito; Stability Tunnel, Lou Alice Georges; and Warehouse Building, Warren Spratley and Joyce Volkman.

Membership in the Little Theater is one dollar for the entire season which runs from fall to fall. Membership entitles persons to a ticket to each performance. This year the group plans to stage two three-act plays, four one-act plays, and a musical variety show. No individual admissions will be sold for any single performance.

PROSPECTS GOOD FOR RECREATION CENTER

The need for adequate recreational facilities in our crowded community has been an increasingly important problem within the last few years. Such facilities as do exist have proven to be completely inadequate and as a result, a great many LMAL employees find themselves facing evenings and weekends with little prospect of enjoying physical exercise, riding a hobby-horse, or enjoying social contacts at a common meeting place.

The LMAL administration, in acknowledging the above needs, has sought to meet the existing situation by providing land as the starting point for an independent LMAL recreational center.

STAFF ASKED FOR PROSPECTS

The Laboratory needs added personnel to help with the increasing work load and to staff the new activities that are being built in the West Area.

In the past, members of the staff have been very helpful in providing the Employment Section with the names of prospective employees. A memorandum has been circulated to the staff asking that they once again assist in obtaining additional personnel.

Employees are needed in all phases of Laboratory work. There are vacancies for engineers (all types), mechanics, modelmakers, clerks, stenographers, and many others.

Any employee who knows of any prospective employees is asked to send their names and addresses to the Personnel Office.

The chairman of the committee looks with favor on the project and has asked that plans and specifications be prepared for the development of a suitable site in the West Area.

The operation of the facilities, when available, should be conducted by representatives of the employees so that they will meet the needs of the majority.

In pursuit of this policy, Messrs. Elton W. Miller and W. Kemble Johnson assembled representatives of the existing athletic, cultural, and hobby societies in this Laboratory and requested that inasmuch as all the assembled representatives were already experienced in the organization and administration of their particular forms of recreation, they should pool their knowledge and set up plans for the formation of a permanent recreation council.

The temporary council, after several meetings and much discussion proposed that an election be held through-



The LMAL Bulletin is the official publication of the Langley Memorial Aeronautical Laboratory, National Advisory Committee for Aeronautics, Langley Field, Virginia. It is published weekly in the interest of management and the employees. Contributions should be addressed to the Editor, in the Service Building, telephone 376.

Editor Tiny Hutton
 Managing Editor. Ruth Angel
 Sports Si Diskin, Nancy Shelton
 Reporters. LMAL Employees

List University Extension Courses

Registration for the University of Virginia Extension classes will be held at the John W. Daniel School, 222 32nd Street, Newport News, on the evening of September 19. The University of Virginia Department of Engineering through its local extension division has offered engineering courses in this area for the past 14 years. These courses have been established to enable ambitious students, who otherwise are handicapped through a lack of educational facilities, to obtain the fundamentals of a higher technical education while remaining in their present employment status. The maintenance of the University standards has established a credit status for those courses already offered and there exists no reason to anticipate a change in this policy. Therefore, any student desiring to pursue his studies in the higher branches of civil, electrical, mechanical, or aeronautical engineering at the University of Virginia or elsewhere, may have these credits secured through evening classes applied towards a degree, provided of course, that full entrance requirements are satisfactory.

No specific qualifications for entry into these evening classes have been laid down
 Continued on page 5

A. A. ANNOUNCES LIST OF CLASSES

The Apprentice Administration in conjunction with the local War Training Office is completing its plans for the operation of war training classes for war production workers to be held at the Hampton High School beginning October 2nd. These classes will run for a period of five weeks, meeting on Monday and Wednesday nights from 7:00 until 9:30 p.m.

The tentative list of courses to be offered the first term includes Physics, Blueprint reading, Machine Design (Advanced), Mechanics and Strength of Materials (Elementary), Mathematics, Algebra, Geometry, Trigonometry, Logarithms and use of the Slide Rule, Simple Aeronautics, Mechanical Drawing, Sheetmetal Layout, and use of Machinery's Handbook.

The conduct of these classes is dependent upon satisfactory registration. In addition to those classes listed above, other classes may be offered if a sufficient number of employees indicates a desire for such a course and it meets with the approval of the War Training Office. Although these courses are primarily intended for apprentices, any employee of the Laboratory who wishes to take advantage of the opportunity

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LIBRARY NEWS

The following new books have been received by the Library:

770 H39 Henney, Keith and Dudley, Beverly, editors; Handbook of photography.

651.4 L14p Laird, Donald A.: Psychology of selecting employees.

541.3 F49 Findlay, Alexander: Practical physical chemistry.

621.43 R35 Ricardo, Harry Ralph: The high-speed internal combustion engine.

530 W69 Wilson, H. A.: Modern physics.

541.2 H44 Herzberg, Gerhard: Atomic spectra and atomic structure.

530 L64 Lindsay and Margenau: Foundations of physics.

532 B81 Brown University. Fluid dynamics, by Richard von Mises and Kurt O. Friedrichs.

531 G88 Grimsehl, E.: Mechanics, being Vol. I of "A textbook of Physics."

532 B46 Besant, W. H. and Ramsey, W. H.: A treatise on Hydromechanics. Part I, Hydrostatics.

535.84 Su8 Sutherland, G. B. B. M.: Infra-red and Raman spectra.

544.6 W95 Wu, Ta-You: Vibrational spectra and structure of polyatomic molecules.

629.1341 M83 Morse, W.L.: Principles of aircraft stressing.

536.5 J12 Jackson, L.D.: Low temperature physics.

311.2 P31 Pearson, Karl, ed.: Tables for statisticians and biometricians.

517 H94 Hurwitz and Courant: Vorlesungen und uber allgemeine functionentheorie und elliptische funktionen.

510.8 G51 Glover, James W. ed.: Tables of applied mathematics in finance, insurance, statistics.

311.2 W35 Waugh, Albert E.: Elements of statistical method.

621.317 Sm5 Smith, Ed Sinclair: Automatic control engineering. Proceedings of the I.R.E. Bound volumes from 1930 to 1939.



SPORTS



STRUCTURES DEFEATS AWT

Structures Research, champions of last year's league, bid fair to repeat again this year. They reached the final play-offs by downing AWT in two straight games on Sunday and Wednesday.

Si Diskin turned in a fine pitching performance in the first game in keeping the AWT team scoreless, and holding them down to three hits. The score was 1-0.

AWT started fast in the second game and tallied three times in the first two innings. The team seemed to go to pieces behind pitcher Jim Scriven, and Structures came through with five runs in the closing innings.

Structures will meet the winner of the East Area Shops-19' Tunnel series in the final round. All games will be played on the Wilson school diamond located behind the tennis courts on the Kecoughtan Road at the Newport News City limits.

The first game between the Shops and 19-Foot ended in a 2-2 tie. The game was called at the end of the seventh inning after Joe Dodson's single into right field had driven in the tying run.

POST SEASON SOFTBALL

The post season softball league got off to a fast start this week with Low Turbulence and the Electrical Shop taking games from Structures and Full-Scale. Low Turbulence took the league opener on Tuesday by downing Structures, 11-4. Carl Cecil pitched for the winners and John Houbolt, George Zender, and Dave Ochiltree shared the Structures mound.

Electrical Shop took the measure of Full-Scale, 10-8.

The teams in the league and their numbers are as follows: Structures, 1; Electrical Shop, 2; 8-Foot High Speed Tunnel, 3; Stability, 4; Full-Scale Tunnel, 5; Low Turbulence, 6; and Tank, 7.

The remainder of the schedule is as follows:

Week of	9-11	9-18	9-25	10-2	10-9
Monday	2-7	4-2	3-5	2-3	5-7
Tuesday	1-3	3-6	6-7	4-1	6-4
Wednesday	6-2	7-4	2-1	6-5	
Thursday	7-1	5-1	4-5	7-3	

The teams listed last are home teams.

LTD DANCE SEPTEMBER 16

The Low Turbulence Section is sponsoring a semi-formal dance at the Hampton Country Club on Saturday, September 16, from 10 'til 1.

A limited number of invitations are available to members of the Laboratory staff. The subscription price is two dollars per couple. Complete information may be obtained from Kenny Singleton or John Quinn at 249.

Music will be furnished by Eddie Travis and his orchestra.

BUY WAR SAVINGS BONDS AND STAMPS

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Pete Korycinski, chairman of last season's basketball league, is all smiles as he presents the league trophy (which finally arrived) to Arvo Luoma, captain of the winning 8-Foot High-Speed Tunnel team.

Girls' Softball

The NACA Girls' All-Star team downed the Norfolk WAVE's 6-4 on Tuesday at the Naval Air Station diamond.

The WAVE's gathered only nine hits off Sybil Bateman, Structures, who turned in her usual good performance from the mound. Only two of the nine hits went for extra bases; McQueen, NAS right fielder, scored a home run and Wehaly, first baseman hit a double.

The All-Stars collected fifteen hits from Norman, NAS pitcher. Kathryn Beasley, catcher, led the winners at bat with three singles while Kit Carson, shortfielder, followed with a double and single. Kay DeSander, first baseman, scored on two singles and Sybil Bateman, pitcher, also came in twice. Irma Twyman, third baseman, making her first appearance with the All-Stars, played like a veteran. She is credited with a score for the winners as well as making a number of assist plays.

This game closed the season for the All-Stars. The entire team wishes to thank Gus Boughan, Structures, and Ray Comenzo, AWT, for their splendid job of coaching and Annie Young, Assistant to Women, for arranging and managing the games.

RECREATION CENTER

Continued from page 1

out the Laboratory and that a recreation council of 27 members to be augmented by 1 representative from each of the already organized clubs. The entire council to then elect from within themselves 9 members to form an executive committee charged with the complete administration of the recreation program. It was further proposed that the Engineer-in-Charge appoint 1 member to the executive committee to represent management.

The election machinery is to be administered in such a way as to insure 1 representative to the recreation council for each 100 to 150 employees.

Members of the existing temporary committee will shortly visit Division Chiefs and request that they appoint election officials or wardens. Where divisions comprise less than 100 employees, they will be grouped with other divisions and sections to attain the required employee vote. The wardens will superintend the nominations for office within the group and will then be responsible for get-

ting out the vote on the appointed day.

It is emphasized that the proposed election is solely for the purpose of forming the nucleus of a permanent employee-managed recreation council. After election, the group may or may not abide by the recommendations of the temporary council as they see fit. Members of the permanent council will be your representative and responsible to you in their administration of the facilities, funds and policies. It is hoped to start actual construction of playing fields and buildings by late fall or early spring. Discuss this, argue about it, agree or disagree on details but above all, vote in as your representative the man or woman who you are most certain is deeply interested in adequate recreation for you and yours. Start looking for that person now - the success of the whole recreational program will depend upon whether your representative was elected because of his capabilities or because of his "popularity."



MIMES ISSUE TALENT CALL

The USO Mimes are now rehearsing twice a week for their new show "Funzapoppin", a clever three act comedy which includes specialty acts. Talent is needed for these variety show numbers. Actors, dancers, singers, and other entertainers are urged to contact Mrs. Laurette H. Muir, Assistant Director, Hampton Industrial USO, producer for the Mimes, or with Leigh Lewis, assistant producer, Apprentice Administration. Anyone interested in a vocal role may contact Kenneth Harper, Classification - 381, director for the quartette and special music.

The Mimes presented floor show numbers at the semi-formal dance held September 1 at Ann Wythe Hall, Casino Club, Newport News Military USO, at their formal dance September 5, and will offer several specialties at the dance on September 12, which will be held at the Academy Street USO.

"Funzapoppin'" will be presented sometime in October. Several tentative engagements have already been accepted for the complete play or for variety acts.

BOWLING TOURNEY

The ten pin individual tournament, open to NACA employees starts on Saturday, September 9 and runs through Wednesday, September 13. The tournament will be held on the Mayflower Alleys, Phoebus.

The five high average contestants will automatically be entitled to roll weekly on the Number 1 NACA team in the Community Bowling League Tournament. The first game has been scheduled for Thursday, September 14. For further information call Bill Morgan, 251.

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Save Lives - Speed Victory!

Life At The Laboratory

WEDDING BELLS: Barbara Huffman, Personnel, is sporting something new on her third finger left hand. She will marry Jack Runckel, 16-Foot Tunnel, on Tuesday, September 19....Jean Allen, Files, is engaged to Milton Council of the United States Army. Milton is stationed in Mississippi....The love bug has really been working on the Impact Basin personnel. Latest victim is Thelma Stewart who is wearing a diamond from Horace Pippin, U. S. Army....Lois Evans, Full Scale Tunnel, is engaged to Joe Dolan of Norfolk. The wedding has been set for Monday, September 11.

HEIR MAIL: Donald Skean, East Model Shop, is the proud father of a daughter, Donna Lee, born August 22.

MISCELLANY: PRT had another of its beach parties at Virginia Beach Sunday, September 3....Lola Dodson, Full Scale Tunnel, gave a miscellaneous shower for Lois Evans on Thursday night, September 7....Connie Pegues, 16-Foot Tunnel, is all smiles now that her husband is back after ten months overseas....Marijean Thompson, formerly of Personnel, and her two month old son visited the Laboratory on Tuesday, September 5.

USO PLANS DANCE FOR SEPTEMBER 12

Plans for a semi-formal dance to be given Tuesday evening, September 12, under the auspices of the Hampton Industrial USO have been completed. This dance is the first of a series of dances to be held monthly at the Academy Street USO through cooperative planning with the Committee and staff serving the military club.

Service men and women are invited to be guests, the arrangements for which will be carried out by the Dance Club. Admission to civilians will be by ticket only. Tickets may be secured at the Hampton Industrial USO or through any member of the Dance Committee which includes: Leigh Lewis, Apprentice Administration; Harry

Silver, E. Engineering; Ray Rosen, E. Engineering; Bob Stewart, Dynamic Model; Billy Poythress, West Machine; Jerry Hammack, FRD; Harry Shoaf, W. Engineering; Kenneth Harper, Classification; Adelin Hammack, Reception; Sally Mason, E. Engineering; Wanda Carpini, Duplicating; and Kitty Ragland, Dynamic Model.

In order to cover the cost of the orchestra and other expenses, guest tickets will be 75 cents. The number of tickets will be strictly limited to 125, so immediate reservations are advised. Positively no tickets can be secured at the Academy Street Club but must be purchased in advance. Music will be furnished by Red Overton.

LOST: Lady's gold wrist watch with the name, Frances Clements, engraved on the back. If found, please contact Frances Clements at A.A.G.R., phone 21175, Langley Field.

FOR SALE: House at 13 E. Lamington Road. One mile from Langley Field. 4 rooms and bath, screened porch, automatic electric water heater, fenced-in back yard, \$3500. See James C. Sivells, 19-foot Pressure Tunnel or call Hampton 5337.

Extension Courses

Continued from page 2

and no prospective student should feel that because of mature years or the lack of a high school certificate that he would be barred from enrolling. The only criteria is the ability to take advantage of the instruction offered.

A nominal fee is charged for each course which partly defrays the expense of the course and which at the same time serves as tangible evidence of the good intention of the student to continue his class work seriously until the course is completed.

Classes will be held at the John W. Daniel School in Newport News and at Hampton High School in Hampton.

Any courses in engineering or related subjects may be offered provided a minimum of 8 students are enrolled and a qualified instructor is available. Courses offered last year, and there is every reason to believe that they will be repeated are as follows: Trigonometry; Analytical Geometry; Integral Calculus; Differential Calculus; Differential Equations; Functions of a Complex Variable; Vector Analysis; Operational Calculus; Mathematical Analysis; Numerical Mathematics; Mechanics; Physics; Quantum Mechanics; Strength of Materials; Theory of Elastic Stability; Mathematical Methods in Engineering; Thermodynamics; Vibration Problems in Engineering; Aerodynamics; Naval Architecture; Marine Engineering; Electronics; Advanced Electronics; Direct and Alternating Current Systems and other courses as demanded.

Classes meet one night per week for two-hour periods. Each course carries a college credit of two semester hours. Employees desiring to enroll in these classes are requested to send a note to the Training Division, stating their name, section, and preferred course. Courses to be offered will be dependent upon satisfactory enrollment.

CLASSES

Continued from page 2

to participate in this training program should contact the Apprentice Administration at telephone 256. Employees may enroll for these classes with the Apprentice Administration between the dates of September 18th and 30th. The only cost involved to the employee in connection with these classes is that of securing text books.

He Does It Again!

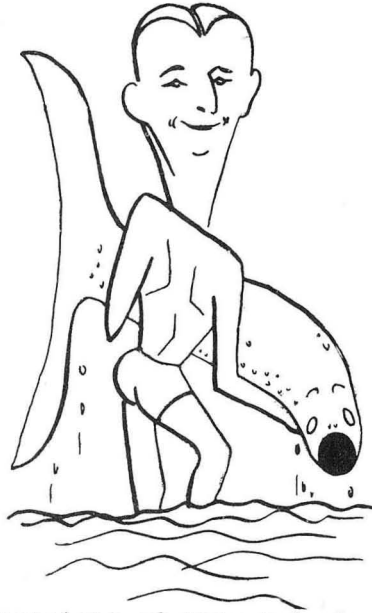
Aubrey Harris, Assistant Chief of Stability, scored for the second successive summer in amazing the natives of nearby beach resorts.

Last year he found two dollars and a five gallon drum of oil on the sands of Nag's Head, and this year he came through with a fish story from Virginia Beach.

It seems that Harris was walking along the beach when he noticed a large fish swimming rather close to shore. He waded into the water, looked over the situation and made a grab for the fish's tail. The fish, however, was not to be outdone by such a simple maneuver. He went into a tight Immelman and came roaring back. Harris did a ground loop, trying to baffle this piscatorial P-47, and sank his claws into the fish's gills as he came roaring by. He then waded ashore with his prize of war.

The fish was described as a red drum weighing between 35 and 40 pounds. Harris said, pointing to a spot just below his chin, "I had to hold him up to here to get his tail off the ground."

(Editor's note: So many



versions of this tale have been told that we are in no position to testify as to the veracity of ours. When questioned about it, Harris blushing replied, in best Li'l Abner fashion. "It ain't egzactly kerrect, but mainly it were so." He also added that the story spread far and wide and even out to sea, and that the porpoises never dared to come in close to shore while he remained at the beach.)

BRAIN BUSTERS

According to the award listing in the last issue of the Bulletin, erroneous information credited the West Machine Shop with presentation of the third place trophy in the rubber power event of the Brainbusters Model Championship Contest; however, due credit goes to the West Sheetmetal Shop employees.

A meeting of the Brainbusters will beheld at 8 p.m. on Sunday, September 10, at the Hampton Industrial USO.

WANTED: A ride to Washington, D. C. the week-end of September 16. Contact Ben Ulrich, East Engineering, phone 251.

WANTED: A ride for two to New York on or about Saturday, September 16. Please contact H. Staras, IRD, phone 218.

ENVELOPES IN CAFETERIA

The use of franked envelopes for any except official mailing purposes, is a violation of the Federal Law; therefore, for the convenience of employees wishing to send mail of an unofficial nature, the East Area Cafeteria now has plain white envelopes on sale. The large business envelopes are six for five cents and the small ones, eight for five cents.

LOST: A gold Bulova man's wrist watch with fabric band and cracked crystal. Reward. Contact Clyde Lumpkin at 200.

WANTED TO BUY: 16 and 35 mm cameras, projectors, and sound equipment. Write B.G. Bennett, 340 La Salle Avenue.

TOUCH FOOTBALL

Deadline for all football team entries has been set for Monday, September 11. It is imperative that each team be represented at the meeting on Monday night for the drawing of opponents. All teams must have colored jerseys for the beginning of the league games. Any section still desiring to enter a team may call Gus Boughan, 216; Bob Nuber, 248; Walt Williams, 264; or Erwin Schumacher, 251; or have a representative at the league meeting at 8 p.m. Monday, September 11, at the Hampton Industrial USO. Any one wishing to referee league games may contact Tiny Hutton, phone 376

RIFLE CLUB PLANS MATCH

The Hampton Rifle Club is placing in competition a new trophy for local rifle team competition, and the match will take place sometime in October. Any rifle team of the Virginia Peninsula, from and including Williamsburg and Yorktown east to Old Point Comfort, is eligible to enter. Present plans are to have four-man teams; however, to provide teams having new shooters an opportunity to enter without necessarily weakening their efforts, the team may consist of eight men with only the four highest scores counting as the team score. The match will be held on the Hampton Rifle Club range.

The course of fire will be ten shots in each of the four positions, prone, sitting, kneeling, and standing. Any rifle chambered for .22 cal. rim fire ammunition may be used. The range will be fifty yards. Those interested may obtain match programs by contacting W. H. Lockwood, 78 LaSalle Ave, Secretary of Hampton Rifle Club, or S. K. Barranger, Electrical Generator Plant, Range Officer of Hampton Rifle Club.