

TID Illustrator Once Famous For Paintings, Industrial Design

In case somebody is wondering, it was Ed Fortier who designed the plaque that adorns the new Thompson Aeroballistics Laboratory as well as the medallions that were presented to Dr. Thompson and Dr. McLean last week.

Who is Ed Fortier? He's a scientific illustrator in the Technical Information Department, and a mighty good one. In fact, the Station likes to call on him for projects in which they place quite a bit of importance. The L. T. E. Thompson Award is a good example. Ed not only worked out a highly satisfactory design for both the medalion and the plaque, but also took care of the legwork to make sure that they were manufactured in time for the presentation.



Ed has been at NOTS since September, 1951, but he's been an artist and an illustrator all his life. He first saw the area around NOTS back in 1926 while doing some free-lance painting around Death Valley. At that time there was nothing but dirt roads, a few Indian horses, and a couple of prospectors in sight. People were travelling across the desert in wagons, and Ed says that the only places that showed any signs of activity were the mining towns of Randsburg and Johannesburg.

Ed sold every painting he made in those days, and a little later on he became known as one of the finest monotypists in the country. Six of his paintings are still on display in San Francisco's St. Francis Hotel, and many more in galleries all over the country.

During this time he helped to form the once famed California Etchers Association which included the famous names of Lionel Barrymore and Henry DeCruif in its membership.

In 1930, Ed turned to the commercial designing of dinnerware and proceeded to establish quite a name for himself in this field also. He worked for many years as an industrial designer for Vernon Pottery and was also art director of the American Pottery Company.

During the war, Ed used his industrial designing genius at Consolidated Vultee and Southwestern Engineering. Originally from Grand Rapids,

Hydrofoil...

(Continued from Page 3) designed a completely new hydrofoil configuration. Tom's weekends for a period of six months were given over to theoretical calculations in hydrodynamics, stability, and stress analysis. The new design was completed in May 1954, and its performance is still being improved.

During one test performance at Salton Sea, during a high wind storm, the waves were about two feet high and rough enough to keep most boats off the water. The characteristics of the Lang hydrofoil were almost unbelievable. The front hydrofoil actually emerged several times, but still the ride was glass smooth. The top speed while bucking this high wind was only about two miles per hour less than in calm water.

The feature of comfort is phenomenal. "In our boat," Tom says, "you could read a book at 30 mph. In a regular boat, you can hardly hold a book at that speed."

In the last year the Langs have designed and tested four new hydrofoil shapes, which may be incorporated in a new hydrofoil configuration. The new model will probably decrease the weight of the attachments from the current 300 pounds to 100 pounds. This change will improve performance as well as simplifying construction.

Red Stickers Will Be 1957 License Tags

California vehicle registration will be renewed for next year by attachment of a reflectorized red sticker, marked for 1957, to your rear license plate.

The Department of Motor Vehicles announces that annual renewal procedures otherwise will include the features familiar in recent years. Pre-punched cards setting forth fees for the new year will be mailed to all registered owners of vehicles immediately after Christmas. Applications for the validated registration cards and stickers will be received at 115 DMV field offices, at additional points served by traveling registration crews, at 100 temporary stations in selected banks, by authorized auto clubs and associations, and by mail.

Paul Mason, state director of Motor Vehicles, said the stickers will replace the metal tag issued in former years as a renewal token. They are red in color, with black letters and numerals reading "California 1957," and are 1 1/2 by 1 1/2 inches in size.

"The motoring public will find several advantages in this device," Mason said. "They are easier to attach to the rear license plate than the metal tabs. They reflect light, thus adding a new visibility point to the rear end of the vehicle and adding a safety factor in night driving. Finally, they cannot be removed from a license plate without being destroyed or mutilated, thus adding a protection against theft or fraud, or evasion of the law by illegal transfer."

The renewal period dates are from January 2 through February 4, 1957. A small number of motorists who purchase vehicles after December 1, 1956, will be required under the law to register for the full year 1957, and will receive their '57 certificates and sticker upon registration.



DATAPLEXER—Donaldson's device for doubling IBM data output. Donaldson's 'Dataplexer' Sent To Patent Office For Evaluation

Earl J. Donaldson, Electronic Technician in the Aviation Ordnance Department was awarded a \$140 check this week for a beneficial suggestion entitled "Duplex Automatic Switch." The suggestion has been submitted to the patent office under the new name of "Dataplexer."

The Dataplexer is a remote device which provides the automatic recording from two data reduction machines (on IBM cards) in one summary punch, thereby doubling the daily output of the IBM machines in use for data reduction.

Donaldson's Dataplexer is in great demand. It has already been put to use at several other government activities (Point Mugu and Aberdeen Bombing Mission, Edwards Air Force Base.) In addition, the Australian government and the Royal Canadian Air Force have requested permission to use the Dataplexer.

This suggestion has been forwarded to the Office of Industrial Relations in Washington, D. C. for further consideration.

Burroughs Lists 55 Standout Scholars

Scholarship took the spotlight at Burroughs High recently as 55 students were listed as members of the local chapter of the California Scholarship Federation by Miss Anne Woolfenden, faculty advisor. Membership in this statewide scholastic honorary is determined on a basis of points with 10 points required, eight of which must be earned in scholarship with 3 points for an "A" grade, and 2 points for a "B." Points may also be earned in extra-curricular participation with scoring according to school service value.

Accenting their motto of "Scholarship and Service" this year the group assisted with school orientation activities for new students and is acting as host to Gita Thoma, foreign exchange student. The group also will complete an educational trip to a nearby city and will hold a banquet in February to honor new and life members.

Named on the federation for grades earned last spring semester were senior students Janet Ambrogio, Myrna Carter, Mary Susan Hagerman, Joyce Hutton, Joyce Kirby, Margaret Kraynyk, Larry Lapin, Elizabeth Pike, Sharen Pinkerton, Patricia Pruitt, Gary Reynolds, Anne Rockwell, Jimmie Vaughan, Linda Westfall, and Charles Walker. Juniors named include Darlene Bettger, Jay Carty, Florence Childers, Linda Dial, Sybil Donaldson, Louanne Downey, Marilyn Doyle, Fred Gay, Margaret Jackson, Ann Jagiello, Robert LaCombe, Janice Nicol, Jeanette Parker, Darline Todd, Margaret Waldron, Patsy Westfall, Judy Wilson, Sandra Witt, and Stuart Young.

Sophomores on the list include Carolyn Barker, Charles Christensen, Sharon Christie, Leah Cornish, Carolyn Haycock, Mary Anne Highberg, Lela Hilborn, Linda Jacobson, Martha Keller, Charles Lenkner, Celeste Neipp, Paul Neipp, Patricia Rickhoff, Dianne Renne, Carolyn Ridpath, Alan Robinson, Bob Roseth, Joe Shea, Wayne Smith, Mio Stith and Martha Walden.

Officers of the honorary are Margaret Waldron, president; Sharen Pinkerton, vice-president; and Sandra Witt, secretary.

No freshmen students were listed since the grading period was for last spring.

Red Cross Will Sponsor Home Nursing Course

A home nursing course sponsored by the American Red Cross is being organized locally to help develop skills in the home care of the sick and to increase an awareness of health conditions within the family and community. Enrollments are now being accepted by Jane LaRosa, 304-A Forrestal.

The six-week course will meet for two and one-half hours weekly under the direction of two trained instructors. Classes will start when the enrollment complement is filled.



Ordnance Association In Three Day Station Meet

A three-day conference of the Guided Missile Branch of the American Ordnance Association will end at China Lake today when a notable group of military and industrial leaders leave by chartered plane for Los Angeles.

NOTS was the host for the annual meet which featured presentations and discussions of guided missiles by military and civilian missile experts.

The American Ordnance Association was founded in 1919 to foster among all American citizens an understanding of the importance of science and industry in relation to our national defense. Its principle purpose is to keep available the highly specialized knowledge necessary for arming the nation's manpower by stimulating interest in the design, production, and maintenance of our weapons of defense.

Visitors to the Station included Gen. Omar N. Bradley (Ret), Bulova Research and Development Laboratories; along with two former Station Commanders, Adm. W. V. R. Vieweg, General Dynamics Corporation, and Adm. P. D. Stroop, Deputy and Asst. Chief, BuOrd, Navy Dept.

Also in attendance were: Admiral G. F. Hussey Jr. (Ret.), President, American Ordnance Association; General Burton O. Lewis, Staff Consultant, American Ordnance Association; General H. Hinrichs, Deputy Chief of Ordnance, Army Dept.; Admiral C. B. Martell, Deputy Director, Naval Intelligence.

Also: Adm. M. F. Schoeffel (Ret), General Precision Equipment Corporation; Brig. Gen. D. R. Ostrand, USAF, Research and Development Command; General J. Colby, Commanding General, Frankford Arsenal, U.S. Army; Maj. Gen. H. N. Toftoy, Commanding General, Redstone Arsenal, U.S. Army; Adm. W. H. Ashford Jr. (Ret), Electric Storage Battery Co.; and Col. R. E. Garner, USMC, Director, Guided Missiles, BUAir.

Local TV Owners Asked For 'Fair Share' in Booster Drive

Did you know that the cost of TV for one year in China Lake is less than the cost of TV for one month in Barstow? And Barstow has the lowest rate for piped-in TV in the country.

Did you know that a survey of nearby desert towns shows an average yearly cost of \$100 per TV set? And this doesn't include the initial cost of from \$25 to \$200 for coaxial cable hookups.

China Lake and Ridgecrest residents are being asked to give \$5 for their TV reception to pay for the power line booster which supplies it. A simple test for antennas is to shake the guy wire. If the picture flashes, the antenna is faulty.

The Booster committee asks all who are not contacted by their area representatives to mail their subscriptions to Boost the Booster, c/o the Postmaster, China Lake.

Area representatives for the "Boost the Booster" campaign in China Lake are: Jim Rhodes, Jack Revenaugh, Fred Wohlers, G. E. Thompson, Beatrice Hemlup, Ed Casaroli, Chuck Bradley, Earl Cowan, Jim Huffman and Jim Kelly.

In Ridgecrest, solicitors for the power line are: C. E. Dale, Bud Benson, Red Gillette, Tiny Hale and Vick Bizon.

All TV owners are asked to display the "1956 TV Booster" sticker on a window near the front door so that Booster collectors are able to tell if the owner has already subscribed to help cancel the \$12,000 power line loan.



AEROLAB DEDICATION—Principals in the recent dedication of the Thompson Aeroballistics Laboratory were: (l. to r.) Adm. P. D. Stroop, who delivered the dedicatory speech; Dr. L. T. E. Thompson, the honoree; Dr. William B. McLean, NOTS Technical Director; and Capt. F. L. Ashworth, Station Commander.

Thompson, Stroop Laud NOTS In Aeroballistic Lab Dedication

"The new aeroballistics laboratory is a symbol of the Station and the way things are done here," said Dr. L. T. E. Thompson at the dedication ceremonies for the new lab last Friday afternoon.

Following an invocation by Chaplain James D. Hester, Captain F. L. Ashworth, Station Commander, welcomed the large gathering and referred to the dedication as one of the many milestones that he had been privileged to participate in while serving on the Station.

Capt. Ashworth introduced Rear Admiral P. D. Stroop who made the dedicatory address and unveiled the plaque in honor of Dr. Thompson. Rear Admiral Stroop enumerated the accomplishments of Dr. Thompson and told of the large and effective staff of scientists that was assembled by him back in the early days of NOTS, and the philosophy that was instilled that even today is so vital to the Station's progress.

Speaking for the Bureau of Ordnance, Rear Admiral Stroop said that the new Thompson Aeroballistics Laboratory had already demonstrated its ability to perform up to the standards of the Bureau's aeroballistics team.

Dr. William B. McLean, present Technical Director, also paid tribute to the imagination and foresight of Dr. Thompson and presented him with a small replica of the plaque that will adorn the structure.

In his acknowledgement address, Dr. Thompson told how the lab was completely conceived, designed and built by the staff of the Research Department's Ballistics Division. "The fact that such a job could be done internally," he said, "is one of the real achievements of the Station."

He deemed it "a priceless asset" to have the facilities for further development, and also paid tribute to the good community life at NOTS which he considered just as vital to the work being done here.

Dr. Thompson ended by expressing his gratitude to the Station for bestowing the honor upon him, and to the Bureau of Ordnance for making the project possible.

The ceremonies closed with benediction by Chaplain Hester.

NOTS Chapel Will Hold Thanksgiving Day Service

A community Thanksgiving service will be held Thanksgiving day in NOTS Chapel at 10 a.m. under the auspices of Indian Wells Valley Ministerial Fellowship.

The sermon will be preached by Station Chaplain James D. Hester and Robert C. Rupert will be special soloist.

Maurice Curtis Holds Technical Society Post

At its annual meeting in Cleveland, Ohio, the Society of Nondestructive Testing elected Maurice J. Curtis, Head, Materials Evaluation Branch, Engineering Department, to the position of National Treasurer.



MARINE BIRTHDAY—Lt. Col. H. V. Joslin, USMC, cuts the cake on the 181st birthday of the United States Marine Corps in a ceremony held at the Commissioned Officers Mess last Saturday night. Capt. F. L. Ashworth, Station Commander (left background) also participated in the fete for the local Marines.



Honoree

WARREN H. BARFIELD, YNSN, was recently selected as "Blue-jacket of the Month" at the Naval Air Facility. The 19-year-old yeoman-seaman was born in Hawkinsville, Georgia, but regards Pineview, Ga., as his home town.

Barfield enlisted in the Navy on July 22, 1955, and received his initial training at the Yeoman "A" School in San Diego. Since arriving at NOTS in December of 1955, he has served in the Administration Department at the Naval Air Facility as a transfer and diary yeoman.

Barfield's selection as "Blue-jacket of the Month" is the result of outstanding performance of duty.



CAPTAIN MYERS TO NEWPORT—Capt. R. L. Myers (right), Station Supply Officer since July of 1954, welcomes Cdr. J. M. Shea who will replace him. Capt. Myers will report to the Newport Supply Depot, Newport, R. I., as Commanding Officer. The Newport Depot is one of the Navy's largest supply headquarters. Cdr. Shea, the new NOTS Supply Officer, was formerly Sr. Asst. Supply Officer.

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Commander

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Children's Film Series Opens

Sale of Children's Film Society membership cards for the 1956-57 season will be held at the China Lake elementary schools next Wednesday. Membership costs 50 cents, and entitles the holder to admission to the complete series, consisting of one Saturday morning showing each month from November through June. Programs average a little over an hour in length, and are presented in the Station theatre.

Films and showing dates are as follows:

November 24
Chata (life of a girl in Mexico; feature); Madeline (cartoon of Bemmelman's classic). -Cartoon.

December 8
Morning Star (pastoral film of Arizona shepherd); Silent Night (story of the Christmas carol); Skating Fantasy (Barbara Ann Scott). -Cartoon.

January 12
ABC of Puppetry, Part I. You and Your Bicycle (safety film); Snow (documentary of a California snowstorm); Ski Novice (instructional). -Cartoons.

February 9
ABC of Puppetry, Part 2. Beginning Tumbling (instructional); The Musio Box (Laurel and Hardy academy award); Totems (documentary). -Cartoon.

March 9
Instruments of the Orchestra (London Symphony Orchestra); Bows and Arrows (demonstration film); Surf Safety—Riptides. The Story of Tuna (documentary). -Cartoon.

April 6
Drawing With a Pencil. Pony Express (documentary); Placer Mining (documentary); Swim and Live, Island Adventure (Hancock expedition to Santa Barbara Channel Islands). -Cartoon.

May 4
Life of an Ant. The Great Chase (W. C. Fields bank-robber classic); Underwater Champions (children underwater experts); Swimming for Beginners. Goggles and Gauntlets (old-car documentary). -Cartoon.

June 1
Seagoing Thrills (schooner trip around the Horn); Artificial Respiration (demonstration of new back-pressure arm-lift method); Advanced Swimming. Indians of California (village-life documentary). -Cartoons.

For pre-schoolers, membership cards may be obtained during next week from the following people: Michelson Lab—Louise Kluzek, Room 2007; Edith Huse, Room 2070; Sylvia Christensen, Room 2046; and Doris Rickhoff, Room 10109. Other areas—Alma Koeh, CLPP Bldg. 111; Bonnie Saholt, Room 113 PW Office Bldg.; Eloise Buck, reception desk in Personnel Bldg.; Ruby Nichols, Room 2014, Adm. Bldg.; and Lorraine Udell, Armitage Field Hangar 2.

Parents are urged to arrange for purchase of membership cards either at the school sale or from one of the above sources, as theater lobby sales require considerable waiting. Parents are invited to attend all showings—admittance free when accompanied by a member.

Guardian of Our Country

The United States Navy is responsible for maintaining control of the sea and is a ready force on watch at home and overseas, capable of strong action to preserve the peace or of instant offensive action to win in war.

It is upon the maintenance of this control that our country's glorious future depends.

To submit a roster containing at least ten players by November 21. Contact Lt. (jg) J. C. Alex at 72304 or 72017.

Burroughs Football
Joel Christie, Burroughs terrific wingback, has picked up the peculiar habit of running at great lengths for touchdowns. Christie ran 70 yards for a TD and ripped off another gain of 53 yards last Friday night as Burroughs thrashed Bishop 44-0 to remain undefeated.

The Burros play their last game next Saturday afternoon at Trona and it promises to be a good one. The Burroughs "B" team will also be vying for the league championship in their class. They will try for an undefeated season in league play Friday night against the Trona "B" team.



BENEFIT BARBERSHOPPERS—One of the barbershop quartets that will appear in the Dec. 1 benefit show to pay off the \$12,000 loan on the local TV Booster is the Crown City Four. The group is one of the most popular quartets on the west coast, and will appear along with Art Baker and other well known talent.

NOTS Engineers Contribute To Record Ascent of Stratolab

Two Navy balloonists recently rode to the stratosphere for a new altitude record in a pressurized gondola that NOTS employees helped to test and evaluate.

The balloon, which took off from Rapid City, S.D., rose to 78,000 feet, more than 3,000 feet higher than the previous record.

The observers rode in a spherical, pressurized aluminum gondola which was tested by the Materials Evaluation Branch of the Engineering Department here at NOTS. The plastic Sisyhook balloon that carried the gondola was constructed of polyethylene plastic 0.002 inches thick.

Items used in construction of the gondola were tested by x-ray, tensile and compression tests and other experiments to insure safety of the crew in all phases of the flight.

Superintendent's Notes

By DR. EARL MURRAY, Superintendent of China Lake Schools

It is a well known fact that there is a teacher shortage and that it will continue for some time. Almost every civic organization is concerned and has one or more projects established for the purpose of teacher recruitment. The National Education Association, the California Teachers Association, the California Congress of Parents and Teachers, the California School Boards Association, and the California State Department of Education are among the active organizations which have definite programs of action.

To seek through the dissemination of information and through higher standards of preparation to bring teacher supply and demand into a reasonable balance.

The local club also states in its constitution that it is its purpose "... to encourage and assist those students interested in entering the teaching profession."

The following membership requirements are also listed:

1. Membership shall be restricted to students in the upper 50% of their class scholastically.
2. Members must be sponsored by two teachers who have had them in a class for at least nine weeks.
3. Members must participate in at least one other extra curricular activity.
4. Membership shall be temporary for one quarter and not permanent until passed by a board composed of the advisor, a CLEA executive board member, and two members of the FET executive board which shall consist of the officers.
5. Members will be dropped from the rolls after two consecutive unexcused absences of three in all, for one semester.

Next week's issue of the ROCKETEER will carry further details of the operation of the local high school club.

To encourage careful selection of persons admitted to schools which prepare teachers, with emphasis on both character and scholarship.

What's Doing IN RECREATION

By Helen Michel, Recreation Director

Pug Pilcher's Band will provide music for the pre-holiday dance to be held at the Community Center, November 30, for all adults residing on the Station.

These monthly dances have been very successful and all attending have had a good time. We suggest you plan now to attend this event sponsored by the NOTS Recreation Division. There will be no admission charge.

Chess Club

Among the many fantastic stories told about the origin of chess, there is one which historians have repeated so persistently that there may be a grain of truth in it. It ascribes the invention to Sissa, a Brahmin, in the court of the Indian Rajah Bahalut. The King had asked the wise man to create a game that should demonstrate the value of such qualities as prudence, diligence, foresight and knowledge.

From India chess spread to Persia, Arabia, and then to Europe. In the Orient it underwent such changes that it cannot readily be recognized as the original Indian game.

Now chess has come to China Lake—a club is being organized at NOTS and all persons, whether beginners or in the more advanced stages are invited to join the group. The group hold their sessions each Wednesday night, except the fourth Wednesday, at 7 p.m. at the Community Center.

In the future the group hopes to conduct tournaments and form teams which perhaps will play teams in nearby cities. Contact Carl Bitzer for additional information. Ext. 71622.

Discount Tickets

Discount tickets are available for programs at Pasadena Playhouse and the 34th Los Angeles International Automobile Show to be held at Pan Pacific Auditorium from November 15 to 25. Call Ext. 72017 or come to Recreation Office, Housing Bldg. Room 17.

Rockhounds

Rockhounds are planning a field trip to the Cady Mountains on November 18, as guests of Mojave Gem and Mineral Society. They will be looking for Jasper, moss agate, forficulation agate and nodules on this excursion.

Job Opportunities

Clerk (Typing), GS-4. Position is located in Scheduling Branch of Test Department. Duties include information dissemination, report editing and preparation, and general clerical work. Call Ext. 71577 or 71514.

Personnel Clerk (General) Typing, GS-4. Two vacancies. Duties involve processing new employees, personnel actions, classification actions, maintaining files and preparing reports. Incumbents will be members of personnel service branches providing personnel service to several major Station departments. Contact J. Newman, Ext. 72676.

Quarterman Rigger CS Exam Open

A Civil Service examination for Quarterman Rigger vacancies at NOTS has been announced by the Executive Secretary, Navy Board of Examiners, Eleventh Naval District (Northern Sector). Applications must be received or postmarked not later than November 28, 1956.

Competitors will be rated on written test, administrative ability and experience, and oral interview. The written test will be given at China Lake as soon as possible after the closing date for acceptance of application Card Form 5000-AB.

Application Card Forms 5000-AB may be obtained from the Industrial Relations Office in the Personnel Department.

Precinct 6 Elects Runchey

Information submitted to the ROCKETEER last week regarding precinct elections to the Community Council board of directors failed to include the name of Al Runchey from precinct 6 who was elected for a one year term.

All interested persons, whether members or not, are invited to call Alvin Cles at Ext. 723934 for more information.



Starting Times 6 and 8 p.m. Daily
Kidder's Matinee (Special Movie)
1 p.m. Saturday

TODAY
"BEST THINGS IN LIFE ARE FREE" (104 Min.)
Don Dalley, Shuree North

A flaming portrait of the jazz age, and the guys and gals who made it rock 'n' roll. The wonderful era when everyone was beating out so many wonderful songs!
SHORT: "Magic in the Sun" (9 Min.)

SAT.
"REBECCA" (130 Min.)
NOV. 17

Laurence Olivier, Joan Fontaine
In this new age of psychoanalysis the re-issuance of "Rebecca" will hold a new fascination for theatre audiences which is more complex of psychology and personality complex than at the time this picture was released sixteen years ago.

MATINEE
"TALL IN THE SADDLE" (79 Min.)
John Wayne

SHORTS: "Cold War" (7 Min.)
"Monster and the Ace" No. 7 (18 Min.)

SUN.-MON.
NOV. 18-19
"MAN FROM DEL RIO" (82 Min.)
Anthony Quinn, Katy Jurado

Every fast gun in the West wanted to test his speed—fatally! Hero follows a hated gang-fighter into Meja where he becomes Sheriff, and the action explodes!
SHORTS: "Two Crosses from Tacos" (7 Min.)
"Scheming Schemers" (17 Min.)

TUES.-WED.
NOV. 20-21
"EVERYTHING BUT THE TRUTH" (84 Min.)
Maureen O'Hara, John Forsythe

Water buffalo stampede, giant spiders, carnivorous piranha fish, and a struggle with a boa constrictor make this a real "wild" Rio de Janeiro jungle fiction.
SHORTS: "Wide Wabbit" (7 Min.)
"Land of Legend" (10 Min.)

THURS.
NOV. 22
"TENSION AT TABLE ROCK" (98 Min.)
Richard Egan, Dorothy Malone

A western with a gunman being wrongly accused of shooting down his buddy in the back, giving rise to a legend of cowardliness which follows the reforming gun man through his subsequent travels across the great southwest.
SHORTS: "To Boo or Not to Boo" (7 Min.)
"Dancers of the Deep" (6 Min.)

Old Chapel May Be Converted Into Teen Age Rec. Center

Captain F. L. Ashworth, Station Commander, has given tentative approval for the Station Chapel to be used as a Teen Age Center.

The Community Council has been instrumental in setting up plans to acquire this building when the chapel is finished. A feasible working plan must be submitted to Captain Ashworth by March 1 before a final decision will be made.

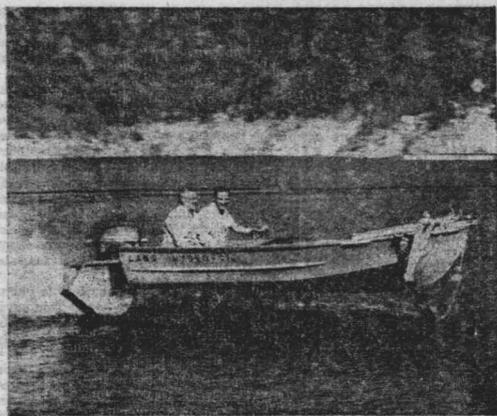
A committee composed of Lcdr. H. H. Aull, R. T. Merriam, J. H. Madden, R. C. O'Reilly, Helen Michel, and a P.T.A. representative are organizing some definite plans.

Those organizations on the Station interested in helping to establish the Teen Age Center are asked to contact Lcdr. Aull at Ext. 71654. Additional information will be published at a later date.

AAUW Schedule Book Review Next Monday

A book review tea sponsored by the American Association of University Women will be held next Monday at 1:30 p.m. at the home of Mrs. H. R. Richardson, 702-A Essex. "My Lord, What a Morning!" by Marion Anderson will be reviewed by Barbara Zernickow. Interested persons are invited to attend.

News from Pasadena Annex



LANG HYDROFOIL—Tom Lang, of UOD's Guidance and Control Division, is shown here with his father, Glenn Lang, during a cruise at Moris Dam. The hydrofoil, built by the Langs, rises about a foot above water as it gathers speed.

UOD Engineer and Father Design Successful Hydrofoil

For the past four years, Tom Lang and his father have shared a fascinating hobby. Tom became interested in hydrofoils in 1952, snared the interest of his father (who is a hydraulic engineer with the U. S. Geological Survey), and the father-and-son pair have been experimenting ever since.

Their present hydrofoil model is a 14-foot Glaspas boat, equipped with a 25-horsepower Johnson outboard motor, and fitted with one bow V-foil and two stern V-foils. This model was the thirteenth in a series, and the Langs have been improving its performance steadily during the last two years.

Experiments and refinements—different propellers and finer adjustments of angles of the foils—have resulted in a boat which will, with five passengers, outdistance any normal boat with a 40-horsepower motor with one passenger. The Lang hydrofoil will do 33 mph with five passengers, it has attained 35 mph with one passenger, and 30 mph with two passengers plus a water-skier.

The principal advantage of the hydrofoil is the smoothness and comfort of the ride. Life Magazine, in 1954, described hydrofoils in this way:

"Some of the strangest boats ever devised are today skimming over the water like water bugs, their hulls appearing to float ethereally above the surface. This waterborne flight is made possible by hydrofoils, literally 'water wings,' finlike structures attached to the hull by struts. When the boat is at rest or moving slowly, the hydrofoils extend down into the water. But when the boat picks up speed, the water moving past the hydrofoil creates greater pressure on the bottom than on top and, as in an airplane wing, produces 'lift.' The foil rises toward the surface, pushing the boat up so that it rides along as if on stilts."

The Langs have to be prepared to answer questions wherever they go and they have covered a lot of ground—and water. Tom and Glenn Lang have taken camping and fishing equipment in the hydrofoil up Lake Mead for a weekend trip of about 150 miles by boat. With Steve Gaspar and Paul Warnshuis, Tom has taken the hydrofoil on a 120-mile scenic cruise around the Clear Lake shoreline in a traveling time of four hours at partial throttle.

The hydrofoil has been operated at sixteen different locations: seven times at Salton Sea, six at Lake Havasu, five at San Pedro, three times each at Puddingstone Reservoir and Palm Beach (at Long Beach), twice at Lake Mead and Lake Mojave, and once at the Sacramento River, Lake Tahoe, Clear Lake, Millerton Lake, Ensenada Bay, Balboa Back Bay, Santa Barbara, and, for the ROCKETEER photo at graph, Morris Dam.

Tom's whole background has prepared him for his work with the hydrofoil. In 1948, at the age of nineteen, he took his bachelor's degree in mechanical engineering at Caltech. He worked a year at the Cooperative Wind Tunnel in Pasadena, then took another bachelor's at Caltech, that time in Civil Engineering.

He spent a year in stress analysis at North American Aviation before coming to NOTS where he worked a year in preliminary design and has since been engaged in hydrodynamics work in the Guidance and Control Division. During these last years of employment he has also picked up a degree in another field—this time a master's in aeronautical engineering at USC.

In 1952, when Tom first became interested in hydrofoils, after reading an NACA report, the Langs constructed their first set of hydrofoils and conducted tests. Changes were obviously necessary, so they made twelve different configurations between February and August 1953. On the basis of these tests, they

Rockhounds Expedition

The newly organized Annex Rockhounds will make a field trip to Gem Hill, near Rosamond, on Sunday, November 18. Al Stoltz and Roman Curtis will lead the expedition.

All interested persons are invited to go along. The expedition will take off from the Chevron station in Rosamond, the meeting point, at nine o'clock on Sunday morning.

Trygon Conversion Nears Completion

(Editor's Note: Readers of the ROCKETEER, who are being kept informed of events and progress at the Long Beach Range, are indebted to Ray Musgrave, head of the Long Beach test unit. Ray volunteered to bring the rest of us up to date on operations and personnel at the range, and for the past six months has been contributing a series of stories and pictures from the NOTS sea ranges.)

The before-and-after pictures of the Trygon, below, represent four months of work and a considerable investment for NOTS. This versatile craft is NOTS' deep-depth launching and test facility. She can be used also as a cargo vessel, and if tentative plans are completed, may be used as a water-and-fuel barge for our small craft.

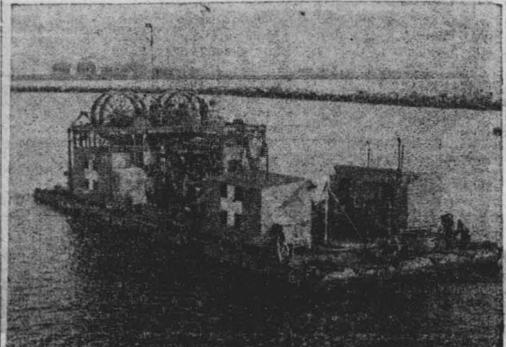
The speed of the new ship is almost twice that of the old Trygon, and she has, of course, range equal to any standard fleet-type LCU.

Skipper of this ship is Chief Quartermaster Carl J. Cline. Leslie Campbell, a fairly recent addition to the Long Beach Range, is in charge of the instrumentation equipment aboard the LCU 1398. During the absence of Ray Musgrave, head of the test unit, Campbell has been in charge of the conversion. With the completion of a few more installations, the Trygon will be ready for sea trials.

Plans for a commissioning party are in the research stage, Ray reports, and adds that the Annex will be advised of the time and date.



FLAGSHIP OF THE NOTS FLEET—The new, streamlined version of the Trygon is nearly ready for commissioning.



THE OLD TRYGON—This picture of the old Trygon barge was made before she was dismantled to equip the new model.



GROUP SUPERIOR ACCOMPLISHMENT—A \$200 group Superior Accomplishment Award is earned by the Cost Control Group, Transportation Division in Public Works Department for their contribution in minimizing program expenditures and increasing management efficiency. Awarded shown above (l. to r.) are: William Mitchell, Mille Noland and Novelle Conner.



HEAVY SUGGER—C. V. (Chuck) Bradley (left), Quartermaster in the Maintenance Division of Public Works Department receives a Beneficial Suggestion award check for \$120 from Capt. G. H. Carrithers, Public Works Officer. The award is based on the suggested use of a combination trash and cleaning cart resulting in the saving of over \$3640 annually to the government.



WARMIN' THE BENCH
Lt. (jg) J. C. Alex, Athletic Officer, recently announced a "Sports Night" to be held in the Station Gym on Thursday, Dec. 6, at 8 p.m.

The event will feature five 3-round boxing bouts between servicemen on the base with the winners to receive handsome trophies. Any other servicemen or civilians interested in participating in the bouts may do so by contacting Bernie Locker at the Station Gym on weekdays from 4:30 to 8:30 p.m.

This event proved to be terrifically popular with Station residents last year, with more than 1200 attending, and there has been some additional entertainment scheduled this year. A track team from Edwards Air Force Base and Judo experts from Barstow will also be in attendance. Admittance is free and we can assure you that it's something you won't want to miss.

XX-3 Flag Football
The XX-3 flag football team ended the season with ten straight wins and clinched the league championship Wednesday night. Lt. Col. H. V. Joslin, USMC presented the first place trophy to XX-3 and the second place trophy to GMTU to climax another successful flag football season.

Basketball

The local Rockets are ready to start an 18-game schedule in the Mojave Desert Inter-Service basketball league, and from all indications they are loaded with talent; that is if you figure a 6'8" center from the University of North Dakota as any indication.

The Inter-Service league is quite unique in that it is the only league in the United States with teams representing the Army, Navy, Air Force and Marines. Lt. (jg) Alex is the coach of the local Rockets who will open their home season against Ft. Huachuca on Nov. 20.

The Inter-Station basketball league will get underway on December 3, and Station residents who wish to enter a team are encouraged