



LT. KENNETH E. MAY, a Texan from Port Lavaca, reported from Asst. Maint. Officer's slot at VF-92 to be Avionics-Weapons Div. Officer at NAF. His four years with VF-92 took him aboard USS Ranger (CVA-61) in South China Sea. He relieves Lt. Joe L. Dyer, who left for the USS Hornet. Lt. May brings wife, Wanda Sue, and three girls to 59-A Vieweg Cir.

Unitarian Classes Resume Sunday

The Unitarian Fellowship will resume regular Sunday evening meetings and Sunday school classes this week, after a three-month summer recess.

Children from pre-school through junior high ages will be registered for classes at 10:30 a.m. Sunday at Chapel Annex No. 1, N.W. corner of Blandy St. and Lauritsen Rd.

This Sunday's adult program, which will begin at 7:30 p.m., will be a dialogue from Nikos Kazantzakis' book, "Zorba the Greek," presented by Charles Wilcox and James G. Moore.

The meeting will be held in Chapel Annex No. 95, located north of Halsey Ave. between Switzer Circle and Parsons Rd.

Bridge Match Set For September 19

A challenge match between the Antelope Valley and the Indian Wells Valley has been set for Sunday afternoon, Sept. 19, by the duplicate bridge players of the China Lake Unit of the American Contract Bridge League.

This special event will be a first for the local duplicate players and reflects the growth of the local duplicate bridge unit in both size and experience, according to Capt. William Von Hausen, USN, a director of the bridge unit committee and captain of the challenge team.

The Antelope Valley forces are captained by Sid Zalk, ranking life master and tournament director, and comprise 24 players. Both teams have agreed to use one third lower-ranking players (under 50 master points), one-third middle-ranking players (50 to 150 master points) and one-third higher-ranking players (more than 150 master points).

The local bridge team includes John Spessard, of Tropa, a director of the unit committee and highest-ranking life master, and Dr. Howard Shomate, who became the first local life master last year.

Other high-ranking local players who will challenge the Antelope Valley team include George Blackshaw, Polly and Peter Nicol, Charles and Doris Dye, Lillian Foit, and Louis Davodiv. The complete team selections will be announced next week, according to Von Hausen.

The challenge tournament will begin Sunday, Sept. 19, at 1 p.m. at the China Lake Community Center and will be played in several sections.

In this modern electric era, all a woman has to do to run her home is to keep on plugging.

Film Society Slate Sets 'Dolce Vita' To Lead Season

A series of outstanding films has been selected for the coming season of the China Lake Film Society. The season will open October 11 to 12 with a showing of La Dolce Vita.

Other films from Russia, Denmark, Argentina, England, and the United States will make up the balance of the season.

The films will be shown Monday and Tuesday evenings at 8 p.m. at the Community Center. Full season tickets for the eight showings are \$5.00; half-season tickets will be \$3.00. Rates for servicemen are \$9.00 for full season, and \$2.00 for half-season.

Ticket sales will begin Sept. 10. Tickets will be available at various locations over the Station, or at Bennington Plaza on Friday afternoons and Saturday mornings. Further information may be had from Society President Roy Rockstrom at ext. 77273.

SHOWBOAT

FRIDAY SEPT. 10
"GENGHIS KHAN" (124 min.)
Stephen Boyd, Omar Sharif, James Mason
7:30 p.m.

(Adventure) The wild, action-filled historic tale of the man who conquered half the world is told from his escape from the Mongols through his many wars and his love for a princess. A thrill a minute in ancient Asia. (ADULTS, YOUTH, CHILDREN)

SATURDAY SEPT. 11
"DANCE WITH ME HENRY" (78 min.)
Abbott and Costello
1 p.m.

SHORT: "Springtime for Pluto" (7 min.)
"Rocket Men No. 21" (13 min.)

—EVENING—
"GUNMEN OF THE RIO GRANDE" (87 min.)
Guy Madison, Madeline Lebeau
7:30 p.m.

(Western) Pretty female saloon owner asks Wyatt Earp to help her girl friend who is being forced to sell her silver mine. Action-filled untamed West. (ADULT, MATURE YOUTH)
SHORT: "Pilgrim Popeye" (7 min.)
"Cue Master" (9 min.)

SUNDAY-MONDAY SEPT. 12-13
"PARDNERS" (88 min.)
Dean Martin, Jerry Lewis
7:30 p.m.

(Comedy) Western-born, but strictly Eastern-raised, Jerry joins Dean in Arizona to cope with a gang of gunslingers. He accidentally earns the reputation of "Killer Jones." Sheriff and becomes a marked man. It's Tops. (ADULT, YOUTH, MATURE YOUTH)
SHORT: "Accidents Will Happen" (7 min.)
"AFSM No. 622" (15 min.)

TUESDAY-WEDNESDAY SEPT. 14-15
"THE WORLD OF ABBOTT & COSTELLO" (75 min.)
The best of Abbott & Costello
7:30 p.m.

(Comedy) Compilation of the funniest slapstick, broad humor scenes from this zany pair's many films all rolled up into a solid 75-minute laugh. (ADULT, YOUTH, CHILDREN)
SHORT: "Tattooed Police Horse" (48 min.)

THURSDAY-FRIDAY SEPT. 16-17
"SKI PARTY" (89 min.)
Frankie Avalon, Deborah Walley, Dwayne Hickman
7:30 p.m.

(Comedy-Music) All the college lovelies (lions) certain non-alike students so Frankie and Dwayne masquerade as girls and follow him to Sun Valley to learn his secret. He chases back to the beach after them before they expose their plot. The HE'S meet the SHE'S on SKIS! (ADULT, YOUTH)
SHORT: "I Was A Teenage Magoo" (7 min.)
"Thrill Of A Lifetime" (10 min.)

COFFEE BREAK CHECK
When you stop for a coffee break use this time out from driving to give your vehicle a walk-around check. Clean off all light lenses. Check to see if the wheel lugs are tight. Tires look okay? The few minutes you take for this kind of inspection may prevent an accident.

Sutherland Receives Letter From Capt. Holmquist Via Balloon

Captain Carl O. Holmquist, Technical Officer at China Lake from Sept. 1961 to June 1963, sent an ordinary letter recently to his good friend George R. Sutherland, Code 852, from Pt. Mugu Naval Missile Center.

It was just a note thanking him for the use of the Sutherland cabin on a fishing trip. The letter was delivered at third hand, however, and at the bottom was this information:

"This letter, by the way came part or all of the way by a helium weather balloon. We attached the letter to the balloon and launched it at 1945 hr. on the twenty-first (of August.) Please let us know if and when you receive this."

The Non-Directional Post

The expected north-easterly winds failed to materialize for Captain Holmquist, and an impromptu postman, William Hawkins in Riverside intercepted the balloon at VanBuren and Colorado Streets on August 22. He added the note: "Picked up your UFO at the corner of Van Buren and Colorado at about 10:00 p.m."



CAPT. CARL HOLMQUIST

Special Services Equipment Room Changes Location

The Special Services Equipment Issue Room has been moved from the south end of the Station Restaurant to the Special Services Office Building on Bard St. near the Softball diamond.

The equipment room is open weekdays except Wednesday from 11 a.m. to 1 p.m. and 3 to 5 p.m. on those days for the issue or return of equipment, announced Lt.(j.g.) David W. De Piero, Special Services Officer.

G.E.B.A., C.L.M.A.S. Assessments Are Due

Members of the Government Employees Beneficial Association and the China Lake Mutual Aid Society are reminded that Assessments No. 100 (G.E.B.A.) and No. 28 (C.L.M.A.S.) are now due.

Assessments have been levied due to the death of Vernon J. Novak, 59, a retired employee of Public Works Transportation Department, who died of a heart attack, Monday morning at his home in Ridgecrest.

Payments of \$1.20 may be mailed to Joseph M. Becker, Secretary-Treasurer, 77 B Renshaw, China Lake, Calif.

An old timer is one who can remember when the station wagon was popular.

U.S., Latin America Set for ASW Exercise

Washington (AFPS) — U.S. Naval task forces and eight South American nations will participate in Unitas VI, a four-month anti-submarine warfare (ASW) exercise, in South American waters this fall.

The frigate USS Norfolk will serve as flagship of U.S. forces including destroyer escorts USS John Willis and USS Von Vorhis, the submarine USS Atule, two Neptune maritime patrol aircraft and one C-131 aircraft.

Jim Koch Rites To Be Held at All Faith Chapel

Funeral services for Arthur Lennartz (Jim) Koch will be held at noon, Saturday, Sept. 11, at the All Faith Chapel. Chaplain Edward F. Kane will officiate.

The 48-year-old former Public Works employee and resident of the Valley since 1947 died after a long illness at the Ridgecrest Hospital at 4:15 p.m. Wednesday.

Rosary will be said at 8 p.m. tonight at the Little Catholic Chapel on Station.

Survivors are his wife, Alma, a Propulsion Development Department employee, and a son, James M. Koch, of 408-A Horner, China Lake, and three married daughters, Mrs. Norman Nelsen, Mrs. Larry Jones, and Mrs. Thomas Henden, all of Ridgecrest.

From _____	PLACE HERE STAMP
TO _____	

Can An Enlisted Man Go To The Naval Academy?

What would your answer be to the question, "Can an enlisted man go to the Naval Academy?" If your answer is affirmative, you are correct.

But, perhaps you didn't know that the Secretary of the Navy is authorized by law to appoint 170 candidates each year from the enlisted ranks of the Navy and Marine Corps. How about YOU?

The U.S. Naval Academy trains and educates young men for the Naval service. While there, men carry the grade of Midshipman and upon graduation are granted a bachelor of science degree.

The mission of the Naval Academy, in part, is to provide the Naval service with capable junior officers who exhibit the ideals of duty, honor and loyalty with the capacity and character to assume the highest responsibility of citizenship and government. Why not you?

Qualifications: Be of officer caliber; Single, male citizen of the United States; Not less than 17 years of age, or over 20 (22 for Reserves); GCT/ARI combination of 118 and a high school graduate; Meet physical requirements.

These are part of the basic qualifications. Processing will be explained upon determination of eligibility. Why not you?

If you meet the basic requirements and are interested in this program, contact your Education and Training Officer or better yet, visit his office.

3 Ships Named Winners Of Aviation Safety Award

New York (AFPS) — The anti-submarine aircraft carrier USS Kearsarge, the attack carrier USS Coral Sea, and the amphibious assault ship USS Boxer have been named winners of the Admiral Flatley Memorial Award for aviation safety in 1964. The award is presented to ships which employ a large number of aircraft in their normal operational functions.



KEEPS ROLLING ALONG—The famous Lions Chuckwagon Breakfast will be served on Saturday, Sept. 18, from 6:00 to 12:00 noon to feed the crowds before the Desert Empire Fair parade. Advance scouts Bill Bewley (l), event chairman, and Dick Hitt (r), publicity chairman and Lions "Tail Twister," present Capt. Leon Grabowsky NOTS Exec., with two adult and four children's tickets to the fete.

ROCKETEER

FROM UNDER THE SEA TO THE STARS

Vol. XX, No. 36 NAVAL ORDNANCE TEST STATION, CHINA LAKE, CALIFORNIA Fri., Sept. 10, 1965

Physicist's M-1C 'Sniperscope' Uses Laser Beam Rangefinder



AFTER TWO YEARS' EFFORT, using extra hours and extra thought, Ted Bergman, physicist with Photophysics Br. of Test Dept., holds a nearly completed sniper's

rifle with an "eye" of superconcentrated light. Rifle is an M-1C Garand; Ted's laser rangefinding sniperscope adds only four pounds to it. Batteries give 12 volts.

Project Is Part Of Work For Master's Cape

By JOHN R. McCABE

Over the past two years, Truman "Ted" G. Bergman has been working on a novel rangefinding device in addition to his work as a physicist with the Photophysics Branch of Test Department. Deliberately choosing a most difficult application of the laser, he hopes to show its present potential in defense weaponry.

"Light Amplification by Stimulated Emission of Radiation" (LASER) has already proved its usefulness in the laboratory. Ted Bergman is now in the process of finishing work on a laser sniperscope (not of the see-in-the-dark variety) which adds less than four pounds to the weight of a sniper's version of the M-1 Garand rifle.

Bergman came to work for Test Department at NOTS in August, 1962, with a Bachelor's degree in science from the University of California at Berkeley and a year and a half experience with Aerojet General in Azusa.

During this time he continued his studies with the UCLA extension program here, and earned his Master's degree in engineering in 1964. A thesis he prepared toward this degree described his work in adapting the laser to military use.

Special Project

Bergman's special project gets whatever extra time he can make or find for its advancement, as it is not specifically funded. With assistance from Bob Stedman, and, more recently, George Teate, electronics technicians in the Photophysics Branch, he has nearly assembled his prototype sniper's rifle, and expects to have it finished this year.

Problems: Weight, Ruggedness
"I picked this application of the laser to begin with," says Ted Bergman, "because I figured that if I could make a rangefinder this small, it could be scaled up to any size and used for such things as directing tank and artillery fire — on the weapon or by a forward or aerial observer — or for mapping or reconnaissance."

Bergman consulted military people and industrial specialists during his project's early stages to find out what the requirements would be for a rifle-mounted laser rangefinder. (Continued on Page 3)

WORDSMITHS BEWARE

Govt. Wages War on Gobbledygook

Civil Service Commission Chairman John W. Macy, Jr., is marshalling Federal forces as "commander-in-chief" in a Government-wide "war on gobbledygook" and campaign to improve the standards of communications and services to the public.

The President recently expressed his concern about the need for more effective communication with the public and for assuring that agencies give prompt and courteous service, and he assigned the CSC Chairman the task of surveying agency practices and recommending a program for improvement.

Following the survey and meetings with top-level representatives of 23 agencies, Chairman Macy reported to President Johnson that the following suggestions had emerged from the discussions and

that a proposed program would be presented to the President for his early review:

1. That one top-level person in each agency be assigned the job of improving that agency's communications with the public.

2. That in large metropolitan areas information centers be established where citizens may find out which agency can provide the service or assistance needed.

3. That "one-stop" service be developed for people doing business with the Government where all their needs can be met and all necessary information provided most efficiently and satisfactorily.

4. That a system be developed for interchange of ideas among agencies on improving (Continued on Page 3)

CROSSWORD PUZZLE

ACROSS

- 1-Knock
- 4-Bottle
- 9-Part of face
- 12-Girl's name
- 13-Climbing plant
- 14-Macaw
- 15-Trading center
- 17-Weirder
- 19-Expire
- 20-Repulse
- 21-Frame of mind
- 23-Pronoun
- 24-Prophets
- 27-Beard of grain
- 28-Man
- 30-Part of violin
- 31-Preposition
- 32-Dashes
- 34-River in Italy
- 35-Tidy
- 37-Mother of Apollo
- 38-Writing implement
- 39-Was mistaken
- 41-Brother of Odin
- 42-Transaction
- 43-Worn away
- 45-Evil
- 46-Back down
- 48-Concealed
- 51-Macaw
- 52-Enthusiastic
- 54-Hawaiian wreath
- 55-Manuscripts (abbr.)
- 56-Remain erect
- 57-Cloth measure



Distr. by United Feature Syndicate, Inc. 29



- 11-Armed conflict
- 16-Young goat
- 18-Sand bars
- 20-Mollify
- 21-A state
- 22-Proprietor
- 23-Clayey earth
- 25-Repulse
- 26-Rock
- 28-Member of Parliament (abbr.)
- 29-Hereditary: grafted
- 32-Cubic meter
- 33-Preposition
- 36-Places for combat
- 38-Oar
- 40-Venetian magistrates
- 42-Mournful
- 44-Chair
- 45-Flying creature
- 49-Lamprey
- 50-Nothing
- 53-A state (abbr.)

- 1-Edge
- 2-Girl's name
- 3-Forgive
- 4-Escape
- 5-Illuminated
- 6-Cooled lava
- 7-Dirk
- 8-Remains
- 9-Warden
- 10-Exist

CHAPLAIN'S MESSAGE

Heading Home

CHAPLAIN EDWARD F. KANE



In the twilight of my years
When my spirit feels so lowly,
Will I banish all my fears
As the tide of life ebbs slowly?
Will I know my Father's call
Which will summon one and all?

If Your mem'ry I erase
And Your yoke of love I shun,
From Your Fatherly embrace
And Your "welcome home," I'll run.
If in life I cannot follow,
Then in fear of death I'll wallow.

But a tree grows strong and grand
By the pow'r of sun and rain
So I recognize Your hand
Both in pleasure and in pain.
And I welcome storms that strengthen
As the days of life do lengthen.

Thus I'm called by You each day
As the sun does draw the dew
And I try to see the Way
That leads me Home to You.
Help me know Your voice most clearly
Help me daily love You dearly.

When allotted days have passed
And my Father's call is final,
Then I'll hasten Home at last
To live with Love eternal.
And each daily call is clearer
As my hour draws me nearer.

Then with joy I'll answer brightly
And my journey will be fearless.
For my preparation nightly
Keeps my faith and courage peerless.
If You call me yet today?
I am ready! Show the Way!

For I'm coming . . . yes, I'm coming . . .
I am heading home this day!

PROMOTIONAL OPPORTUNITIES

Supervisory Electronic Engineer GS-12 or GS-13, Code 55222. The above position is that of Section Head in the Electronics Branch. The functions of the Branch cover three major areas: Electronic design, production engineering and the technical aspects of documentation.

The incumbent will prepare initial proposals and plans for personnel in his Section showing schedules, manpower, and budget estimates. As technical leader of the Section the incumbent will participate in the design and review of electronic equipment with approximately equal emphasis on function, producibility, and reliability.

Since the Branch is directly involved in the production of Station-developed weapons, the incumbent will monitor BuWeps contracts to provide technical assistance to the contractor and assure that the function and quality of the equipment are maintained at an acceptable level.

File applications for above with Loreta Harrington, Bldg. 34, Rm. 34, Ph. 71471.

General Engineer, GS-12, Code 5564 — The incumbent will head up the NOTS program for component selection Engineering. He will be the NOTS representative for the Inter-service Data Exchange Program (IDEP) and the Navy Guided Missile Data Exchange Program (GMDEP). This program is designed to aid design or development engineers in selection of electronic mechanical components.

Knowledge of quality control features, reliability and functional characteristics, and performance under mil environmental stress required. Translates engineering requirements into specification information.

File applications for above with Loreta Harrington, Bldg. 34, Room 34, Phone 71514. Deadline for filing: Sept. 17, 1965.

Navy Night Set At Disneyland Park, Tickets On Sale

Tickets for Navy Night, Saturday, Oct. 23, at Disneyland are on sale at the Community Center on weekdays from 8 a.m. to 4:30 p.m., announced Ann Seitz, Center manager.

All Navy personnel, their families, and guests are invited to the special night sponsored by 11th Naval District from 8 p.m. to 1 a.m. at Disneyland. Several dance bands will be included in the "regular" Park fare.

"We had very good response to the special night from China Lakers last year," said Mrs. Seitz. "We had to place additional orders for more tickets than our original number then, and I expect to see another good turnout this year."

When's the last time you looked over the safe operating procedures for your job?

STATION LIBRARY LISTS NEW BOOKS

A complete list of new books is available in the library.

Fiction
Carr—Most Secret.
Harvester—Flight in Darkness.

Le Carré—The Looking Glass War.

Tyler—If Morning Ever Comes.

Westlake—The Fugitive Pigeon.

Non-Fiction
Forley—Public Speaking Without Pain.

Baden-Powell—Two Lives of a Hero.

Sandoz—Beaver Men.

Seabury—The Art of Selfishness.

Smith—California Condor.

White—The Making of the President, 1964.

Wilson—The Mind.

'DESERT PHILOSOPHER'

Semi - Ghost Darwin Today

By "POP" LOFINCK



Darwin, two miles north of the NOTS boundary, was quite a place in its day.

Among the tombstones in the cemetery, are two burial dates—William M. Donnell, Apr. 17, 1877, and Nancy Williams, Sept. 13, 1877. Among the wooden grave markers are many that may be much older—but are too dim to be readable.

An old timer said that probably 80% came to a violent end by knife, gun, or mining accident. That may be just his imagination, however.

MISLAID BONANZA

An odd quirk of history is that so little has been printed about the Darwin area in comparison to the volumes that have been in print about Sierra Gordo and Panamint City—in spite of the fact that the Darwin District has produced vastly greater ore values and over a longer period than the above-mentioned mining camps. Maybe one reason is that Darwin burned down once and the records and pictures may have been destroyed in the fire.

Mining began in the Darwin Hills in November 1874, when rich silver ore was discovered by a Mexican reportedly searching for a lost pack mule; according to U. S. Geological Records.

JAYHAWKER SILVER

Dr. Darwin French discovered the ore ledges of Old Coso Village in 1860—but he had an obsession for finding the so-called "Lost Gunsight Silverledge," of Jayhawker pioneer fame in Death Valley. On his way he passed by and overlooked the rich ore deposits of the Darwin Area. Such is the history of prospecting. Nor did Dr. French find the "Lost Gunsight" ledge. Nor has anyone else to date, although many have tried.

When Darwin started to boom, most of the Old Coso Village miners moved their equipment to the Darwin area, seven miles northeast of Old Coso.

Darwin was then known as the New Coso Mining District. It is still the official name of the place called Darwin. That name has never been legally changed—so that's what it is—but if you speak of New Coso, few people would know what you're talking about.

TIMES CHANGE

Dr. Darwin French discovered and named Darwin Canyon and Darwin Falls, northeast of Darwin—so that's how New Coso came to be called Darwin.

According to the U. S. Geological Survey, it had 5,000 people, and three smelters, putting out 180 tons a day during 1875-80.

The Survey said the Darwin triangle now has "commercially important deposits of lead, silver, zinc, talc and some tungsten, copper, gold and antimony."

In August 1945, the Anaconda Company purchased the Defiance, Darwin, Essex, Independence, Lanai, Lucky Jim, Premonition, Rip Van Winkle, and Thompson Mines, and operated them for about ten years. They have been shut down for several years.

The present cost of the labor, steel, powder, equipment, insurance, and transportation, make it difficult, if not impossible, to operate a mine at a profit. But, the present price of silver should create activity in silver mining—if the operators don't have too much overhead.

A 1952 U. S. Geological Survey paper recorded that the total value of minerals taken out of the Darwin District was about \$37.5 million to 1952.

A CLOSE SHAVE

Darwin burned down once, but never did become a real ghost town. Now it seems there are indications that Darwin may metamorphose from its semi-ghosthood to become a retirement village. The climate is good. Elevation is about 4500 feet. But water is the problem these days.

Here is a good weekend trip:

Go north on Highway 14 to Olancho—turn east to Highway 190—turn right on 190 to a sign that points to Darwin. From Darwin go down Darwin Canyon to Darwin Falls. It's a picturesque canyon. The Falls is a good place to camp—lots of water.

From Panamint Spring Motel and restaurant, you can proceed south through Panamint Valley past Ballarat—population, one man.

You could, instead, go east on 190 through Towns Pass to Stove Pipe Wells and Death Valley and return via Wild Rose Canyon past Trona and Argus to China Lake.

If it's right after a heavy rain, you might prefer to go around on the pavement from Darwin to Panamint Springs.

Also, it's scenic—there are some wonderful panorama pictures on a clear day.

Sealab II Makes Dive

(Continued from Page 5)
end of the pier at a depth of 205 feet at the Scripps Institution of Oceanography, La Jolla, California.

Chief Tuckfield was the first aquanaut to cook. After opening one can and deciding that he had made a mistake, he warmed the contents of a second can for his mates and himself.

Through a unique communication capability, Cdr. Carpenter conversed from the bottom of the ocean to fellow astronaut, Gordon Cooper, in Gemini 5 on his seventh day of orbiting the earth. All the aquanauts stayed up to listen. What they heard was:

CAPCOM: SEALAB II is waiting for you. (Pause)

CAPCOM: You'll have to give them a call.

COOPER: Hello, SEALAB, do you read me? Over.

CARPENTER: Roger. We are 200 feet down and wish you luck on your re-entry. How do you read me, Gordo?

COOPER: Fine. How are you doing, Scott?

CARPENTER: Doing good. I guess I'll be seeing you in Houston soon.

COOPER: Guess so. How are

things going down there?

CARPENTER: Roger. We got down six or eight hours ago. Been busy getting settled. Lot of sea life to study. Looks like our mission will be a success.

NOTS Pasadena role in Sealab II project has been in the initial planning and preparation. The control personnel and operating personnel of the staging vessel (support ship) are under the direction of D. A. Kunz, Head, Systems Operations Division. Kunz has delegated responsibility to the Advance Systems Branch with Branch Head Howard Talkington acting as Project Manager; Ed Carpenter, Project Engineer, Joe Berkich, Range Engineer; and Bill Peck, Assistant Range Engineer.

NOTS military personnel are participating in the operation of boats, furnishing boat crews and military communications watch. NOTS divers assisted in the implantment of the Sealab II and are assisting the Sealab divers in topside or surface diving.

In addition to oceanographic and marine biological research, the men will carry out experimental salvage techniques.



WISE OWL JOINS FLOCK—Harold L. Angle receives his gold Wise Owl pin from Research Dept. head Dr. Hugh W. Hunter (left) with Dr. W. S. McEwan, Chemistry Div. head, joining in congratulations. Angle wears glasses that saved his eyes from splashing acid.

GENERAL MESS MENU

FRIDAY, SEPT. 10

D—Oyster stew, seafood platter, scalloped noodles, cauliflower, corn, salad bar, cherry pie, cold drink.
S—Beef sauerbraten, natural gravy, hot German potato griddle cakes, sauerkraut, salad bar, cold drink, coconut cake with marshmallow coconut frosting.

SATURDAY, SEPT. 11

B—Fried eggs, breakfast steak, waffles, syrup, hash brown potatoes, chilled tomato juice, cereal.
1000 ADD: Vegetable soup, tuna salad sandwiches, potato chips, ice cream, salad bar.
1000 OMIT: Waffles, syrup, breakfast steak.
S—Grilled pork chops, onion gravy, mashed potatoes, squash, peas, salad bar, fruit jello with topping, cold drink.

SUNDAY, SEPT. 12

B—Cereal, fried eggs, pork sausage links, waffles, syrup, fruit juice.
1000 ADD: Onion soup, grilled frankfurters, baked beans, salad bar, ice cream.
1000 OMIT: Pork sausage links, waffles, syrup.
S—Oven roast of beef au jus, natural gravy, duchess potatoes, wax beans, broccoli, salad bar, tapioca pudding, garlic bread.

MONDAY, SEPT. 13

B—Cereal, French toast, syrup, bacon slices, jelly doughnuts.
D—Minestrone soup, chicken cacciatore, boiled spaghetti, green beans, garlic bread, salad bar, pumpkin pie, cold drink.

S—Simmered frankfurters, hot potato salad, French fried cauliflower, lima beans, salad bar, devils food cake with vanilla cream frosting, cold drink.

TUESDAY, SEPT. 14

B—Cereal, cream dried beef on toast, hash brown potatoes, pecan rolls.
D—Split pea soup, roast pork loin, brown gravy, baked sweet potatoes, fried hominy, salad bar, peach cobbler, cold drink.
S—Chicken noodle soup, braised liver with onions, brown gravy, home fried potatoes, Normandy fresh carrots, salad bar, peanut butter cookies, ice cream, cold drink.

WEDNESDAY, SEPT. 15

B—Cereal, fried eggs, ham slices, hominy grits, blueberry muffins, fruit.
D—Cream of tomato soup, oven roast of beef, mashed potatoes, natural gravy, corn on the cob, salad bar, apple pie, cold drink.
S—Beef julienne soup, grilled hamburgers, French fried potatoes, fried onions, peas, salad bar, spice cake with maple nut frosting, cold drink.

THURSDAY, SEPT. 16

B—Cereal, fruit, pork sausage links, griddle cakes, syrup, quick coffee cake.
D—French onion soup, baked ham Virginia style, raisin sauce, parsley buttered potatoes, fried cabbage, salad bar, pecan pie, cold drink.
S—Braised spiced ribs, baked potatoes, sour cream, beans, salad bar, lemon pound cake, ice cream, cold drink.

FRIDAY, SEPT. 17

B—Cereal, fruit, cheese omelet, hash brown potatoes, French toast, syrup, Danish pastry.

MENU SUBJECT TO CHANGE



PASSING ON CURV—Crowds at the Western Electronic Show and Convention (WESCON) in San Francisco's Cow Palace Aug. 24 to 27 viewed a NOTS Pasadena contribution to deep-water work called Cable Controlled Underwater Recovery Vehicle. Some 35,000 conventioners attended the show and meeting.

tribution to deep-water work called Cable Controlled Underwater Recovery Vehicle. Some 35,000 conventioners attended the show and meeting.

Coronation Awaits Desert Queen At Com Center Ball

Leroy Jackson, Kern County Supervisor, will crown the winner of the Desert Empire Fair Queen contest on Saturday night, Sept. 11, announced Don DeWitt, Fair publicity chairman.

The coronation ceremonies are to highlight a dance at the Community Center from 8:30 p.m. Joel Christy and his All-Americans will play for the semi-formal affair, and Jackson will crown the winning desert beauty at 10:00.

Contestants vying for the crown are Kathy Green, Pat Stecker, Janice Hukel, and Sherry Galbrecht.

Proceeds from this year's dance will go to the Indian Wells Valley United Fund.

Dance tickets may be obtained by contacting any Ridgecrest Jaycee or by calling FR 5-2191 or FR 5-2456, and tickets will be delivered, at \$3 for a couple or \$2 for an individual. An open gate policy at NOTS main gate will pass dancers through to the Community Center from 7:30 p.m.

Armed Forces Seek More Trained Linguists

Washington (AFPS) — The armed forces need more people trained to speak a foreign language than ever before, according to Colonel Jack M. Duncan, USA, director of the Defense Language Institute (DLI).

Colonel Duncan said DLI expects a student input of nearly 7,000 into its full-time foreign language programs during FY. 66. This figure represents the requirements submitted to DLI by the armed services.

Foreign language students are trained at DLI schools here and at Monterey, Calif., as well as at the State Department's Foreign Service Institute; Syracuse University, Syracuse, N. Y.; Indiana University, Bloomington, Ind., and other DLI contract schools.



CWO4 CLARENCE J. ZACHARIAS is new Avionics Officer at NAF, reporting from VS-23 North Island, San Diego, in similar post. A Korean War vet, he was aboard USS Yorktown at start of bombing of N. Vietnam. He entered service in Oct., 1940; served on seaplane tender at war's end. Wife, Dora, and son Clarence live in San Diego.

Singfest Is Slated In Last of Series At McBride Park

The Sweet Adelines and the Desert Roses will entertain at the last summer program at China Lake's McBride Park, this Sunday from 6:30 p.m. to 8 p.m. The NOTS Main Gate will be open to accommodate those who wish to attend the community sing.

Eleanor Hartwig, the regular director for the Sweet Adelines, will be leading the two female barbershop quartets and the community sing.

The audience is invited to join in the singing during the audience participation part of the program. Come on out and enjoy the singing, costumes, and the fun.

This program is free of charge. This is the last program in the series this year being sponsored by the China Lake Park Commission as a service to the community and to encourage local residents to visit and use McBride Park, located on Burke Rd. between Entwistle and Forrestal Sts. on the Naval Station.

Lt. Miller Attends Nat'l Toastmaster Parley

The weekends of Lt. Phil Miller of Guidance Radar Branch have been kept full recently by Toastmasters International engagements following his attendance Aug. 18 to 21 at the Annual Convention in New York, where he represented District 12 (central California, Las Vegas area) as its Lt. Governor, with Governor Russell Herron.

The convention, with over 1,000 Toastmasters present from the U.S. and abroad, included speech contests, study of individual club improvement and discussion of the club's Youth Leadership Program.

Lt. Miller has addressed both the China Lake and Ridgecrest clubs on Convention topics.

Tomorrow, Sept. 11, Lt. Miller will go to Las Vegas to discuss the Toastmasters' Fall District Conference and humorous speech contests to be held Oct. 22 to 24.

Next weekend, Saturday, Sept. 18, he will travel to Bakersfield to chair a district new officers training program, with 12 clubs participating. He expects as many as 12 Valley Toastmasters to attend.

The 12 would come from elections scheduled this week in the two Valley clubs. Positions to be filled are for President, Educational Vice-president, Administrative Vice-president, Secretary, Treasurer and Sergeant-at-Arms.

The Rocketeer

Official Weekly Publication of the
U. S. Naval Ordnance Test Station
China Lake, California

Capt. John I. Hardy, USN
Station Commander

"J. Bibby
Public Information Officer

Frederick L. Richards
Editor

Staff Writers
Budd Gott
John R. McCabe

Staff Photographers

Robert Hancock, PH2; Seth Rossman, PH3;
Dennis Smith, PH3; Jerry Willey, PHAN;
and Ralph Robey, PH2 (Pasadena).

DEADLINES:
News Stories Tuesday, 4:30 p.m.
Photographs Tuesday, 11:30 a.m.

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DIVINE SERVICES

Christian Science (Chapel Annex)—
Morning Service—11 a.m.
Sunday School—9:30 a.m.

Protestant—(All Faith Chapel)—
Morning Worship—8:30 and 11 a.m.
Sunday School—9:30 a.m., Chapel Annexes 1, 2, 3, 4 (Dorma 5, 6, 7, 8) located opposite Station Restaurant.

Roman Catholic (All Faith Chapel)—
Holy Mass—7, 9:30 a.m., and 5:30 p.m.
Sunday.
6 a.m., Monday through Friday; 8:30 a.m., Saturday.

Confessions—8 to 8:25 a.m., 6 to 8:30 p.m., Saturday; Thursday before First Friday, 4 to 5:30 p.m.

NOTS Jewish Services (East Wing All Faith Chapel)—8 p.m. every first and third Friday.
Sabbath School—10 a.m. to noon, every first and third Saturday.

Unitarian Fellowship (Chapel Annex No. 95, 85 King Ave.)

Fellowship Meeting—Sundays, 7:30 p.m.
Sunday School—10:45-11:45 a.m.
(Chapel Annexes Nos. 1 and 2)

WOW—War On Waste!

SUBMIT COST-CUTTING IDEA 15 SEPTEMBER THROUGH 15 OCTOBER



STATION COMMANDER, Captain John I. Hardy, and Technical Director William B. McLean, discuss the coming WAR ON WASTE Campaign with Russ Bjorklund (left), Head, Central Staff, and Austin Ross (right), Head Employee Management Relations Division. Austin's division, which

heads up the Station's Incentive Awards Program, is coordinating Campaign WOW for the Station and the cost reduction ideas which result from this all-out WAR ON WASTE will be incorporated by the Management Analysis Division of Bjorklund's Department in the overall program.

War on Waste Can't Be Part-Time Effort

LAST October 31, President Johnson declared war—not war in the usual sense, with guns, tanks and missiles—but war against an enemy just as dangerous as any our country ever encountered. It was war against waste—waste in government spending.

Actually, the war began months earlier when the President assumed office, but the October date was the formal declaration, signaling the start of a systematic and long-range government-wide cost reduction program.

The President, in laying down the ground rules for his across-the-board cost-cutting program, cited the Defense Department's Cost Reduction Program as an excellent example of what can be done to trim government spending. He asked all government agencies to pattern their programs on that of the Defense Department.

As members of the Defense Establishment, we can be proud of the President's praise and we can be equally proud of the records piled up in the four years of the DOD program's existence.

Efforts to cut costs made by service men and women at all echelons have kept the DOD program consistently ahead of its goals—and have done so without damaging the strength of the nation's defenses.

In fact, President Johnson noted, our military strength has continued to mount. Without the record savings achieved by the Defense Department in the last four years, the President added, we would be ill-equipped to meet the situation we have encountered in Viet-Nam or the many other world-wide commitments we have in the cause of peace and freedom.

But, despite the President's praise and our excellent record, we can't afford to relax our efforts.

The President pointed out that controlling waste is like bailing out a boat—you've got to keep at it.

What are you doing to cut down expenses? Are you helping to "keep the boat dry?"

MESSAGE FROM ComNOTS

To All NOTS Employees:

The President of the United States has asked that all of us assist him in conducting the program he has designated as the War on Waste.

Activities the size of NOTS have been selected to have active cost-cutting campaigns, and we have chosen the month from the 15th of September through the 15th of October for our all-out drive to find cost-cutting ideas.

Specially identified "Benny Sugg" forms will be available at your Department office and will receive priority treatment during this campaign period.

I especially solicit the support of supervisors during this War on Waste. I want them to encourage all of their people to ferret out all ways in which we can cut costs and save money to help our campaign be most successful.

Capt. John I. Hardy, USN
Station Commander.

WAR ON WASTE is a National program which specifically seeks positive ideas which produce "cost-cutting" savings and help to eliminate waste in the operation of the Federal government from Station to the National level.

During the period from the 15th of September through the 15th of October all Departments will have special WAR ON WASTE (COST-CUTTER) suggestion forms. The processing of ideas which are di-

rected toward eliminating wasteful procedures, and other ideas which will save the Station money, will receive special handling priority through the Beneficial Suggestions system.

Everyone is urged to submit an idea — and there are cash awards awaiting those whose ideas can be implemented.

The WAR ON WASTE campaign is two-fold: to reduce the cost of operations by trimming the waste from present

procedures, and to encourage personnel to develop other means by which the functions of the military can be performed at a reduced cost.

There is hardly a person in a responsible position, well-versed in the functions of his particular office or section, who hasn't at one time or another had an idea that he could simplify some phase of his operation. There is now a great need for that person to step forward and be heard.

Ed Jones To Tell Of Years in Brazil



EDWARD J. JONES

The first luncheon meeting of the local chapter of the American Society for Public Administration, for the late summer and fall season, will be held Wednesday, Sept. 15, at the Executive Dining Room.

Guest speaker for the event will be Edward J. Jones who has recently returned to work for Office Management in Code 17.

Jones has been teaching at the Gutulio Vargas Foundation School in Rio de Janeiro for the past four years. He has been associated with the Brazil project as a member of the faculty of the University of California.

For further information, ASPA members should call Docia Rana or Lee Lakin at ext. 72978 or 72875.

Shortage Reports Called Misleading

Washington (AFPS) — U.S. officials say there is an abundance of everything needed in the Republic of Viet-Nam and troops elsewhere "are in the best shape ever" for conducting ground combat operations.

This information is in reply to reports of equipment shortages affecting ground combat capabilities, which officials term misleading.

Shortages do exist, officials

admit, but they are normal, and corrected as they appear. This is why reserves and inventories are maintained, officials claim, explaining that some 24,000 new items come into the inventory every month.

Other reports saying the Defense Cost Reduction Program has reduced inventories to unacceptable levels were termed untrue.



HONORED AT VX-5—Cdr. Don Loranger, CO, honors four at inspection ceremonies held Aug. 27. They are (l-r) Ens. Ron Cable, with two trophies won by drill team under

his direction at Mojave and Huntington Beach, Calif.; Edward A. Seffel, AE3, July's "Bluejacket"; Joseph Perez, AK2, and Ponciano Vistro, YNC, Good Conduct Medals.



BUSINESS END OF LASER rangefinding sniper scope is shown, with its lens within a lens (see story). Designer Ted Bergman hopes to have prototype ready to fire this year.

Laser Is Added To Sniper's Kit

(Continued from Page 1)

He talked with Marine Corps and Navy personnel and read Army field manuals.

"Several industry people told me they didn't think a laser scope could be built for this purpose to weigh less than 15 pounds," says Bergman, "but the one I'm finishing now would add no more than four pounds to the rifle." And, as batteries are contained in the enlarged butt of the rifle, the unit is not cumbersome.

Rugged Components Chosen
A major break-through in laser development gave Ted Bergman just the beam generator he needed for compactness, efficiency and ruggedness.

The laser impulse is built up by a light flashed into a rod of neodymium glass and released in a burst of high intensity through a "valve" of specially prepared uranium glass.

"When the excitation level is sufficiently high," Bergman explains, "the nearly opaque value material undergoes a photochemical change and becomes clear, allowing the giant pulse to be emitted. When this energy is spent, the valve material becomes dark again; and the process is repeated the next time the rifleman fires the laser."

Coupled with the laser generator is a "dosimeter," originally designed for a man to carry in his pocket for warning of nuclear radiation—and of small and sturdy design.

Laser Beam Triggers Transistor Circuit

As the laser beam leaves the rangefinder through a central glass lens, it triggers a transistor circuit which starts the batteries charging a capacitor. When the beam returns from the target through a plastic lens surrounding the glass one, the capacitor is made to stop charging.

The amount of charge built up in this interval indicates the target's distance — with an accuracy of within 50 feet over a distance of 1,000 yards — by a moving needle and scale seen in the eyepiece.

Bergman estimates that his rangefinding device is good for 50 to 100 shots, after which the 12-volt battery can be recharged from a standard military vehicle battery.

He adds that the laser pulse has such a narrow beam spread that its detection by an enemy would be very unlikely.

Other Program

A program is now underway

at NOTS to improve trajectory recording centers by development of a laser rangefinder. In a technical paper presented at 1964's national symposium of the Society of Photographic Instrumentation Engineers (SPIE) in Miami, Florida, Ted Bergman described continuing work on a device to be mounted for test purposes along with tracking cameras.

Bergman noted that, in the use of photographic film, "because of the time involved in film processing and data reduction, an engineer normally does not see the results until at least one week, and sometimes two, after the test."

"A laser, on the other hand, can give the range instantly." The Rangefinder under evaluation is designed to record range at a rate of ten times per second, and to do so with accuracy of plus or minus one foot.

Off To School Again!

Ted Bergman's family needs to be a mobile one, since he has been continuing his professional training at Colorado State University at Fort Collins by means of NOTS Fellowships. He, his wife Gwen of Laramie, Wyoming, and their two daughters traveled there last winter; and the Bergmans are leaving again Saturday for their house in Fort Collins. Roxanne, 6, will be starting kindergarten this fall, and Nannette, 4, has a while to wait yet.

Ted's professional resourcefulness is reflected in his personal life, it seems, for he designed a novel way years ago to make the acquaintance of the family of his then new wife.

"In 1960," as he tells it, "I rigged up a vacation of a sort to see the country where Gwen came from. We had met at Westmont College at Santa Barbara, and I had no money for a regular vacation. So I transferred to the University of Wyoming at Laramie for a semester, in the area where Gwen was born on her folks' sheep ranch."

Resourcefulness will be needed, certainly, to make the laser into a dependable servant of the rifleman.

BE BIKE WARY

Be alert for bicycle riders. A child on a bike can swerve in front of you suddenly, so be ready for such a move.

Kids can also fall off bicycles in any direction.

Astrology Sets WACOM Note For Annual Tea

The Womens Auxiliary of the Commissioned Officers Mess will hold their Traditional Membership Tea on Tuesday, Sept. 14, from 3 to 5 p.m. at the Commissioned Officers Club.

WACOM is open to the wives of military and civilian members plus female members of the Commissioned Officers Open Mess. The Membership Tea is held each year on the second Tuesday of Sept. to introduce all eligible women to WACOM. The group meets each month, the second Tuesday, and has varied programs of interest to the members and their husbands.

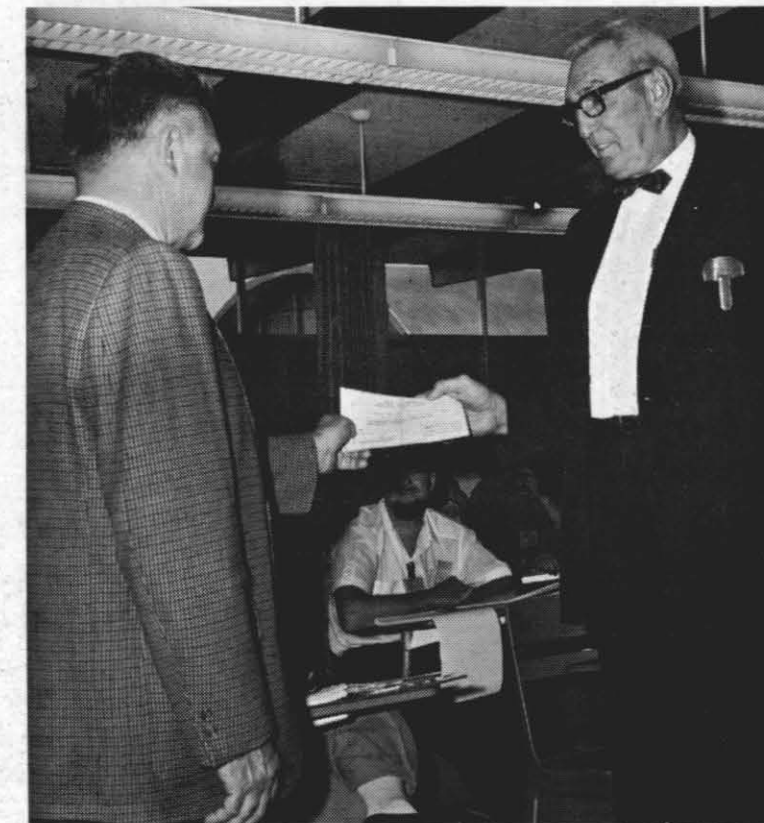
Mrs. Ed Romero and Mrs. Richard Karr, co-chairmen for the event, state that the theme of the decorations will highlight Astrology with "Let the Stars Portend Your Future."

The board members of last year will serve refreshments, and new officers and advisory board members for the coming year will form the reception line, extending a warm welcome to all who attend.



BEHIND THE SCENES of Tuesday's WACOM Tea, Jean Romero and Lou Karr get the detail planning and paperwork done to insure a big turnout and smoothly run event. Jean is WACOM membership chairman.

Civil Defense Trains To Fill Emergencies



RECEIVES MONITORING CERTIFICATE—Valley Civil Defense head H. G. Wilson, left, presents radiological monitoring certificate to Ridgecrest Chief of Police George Whaley. Whaley was among 24 receiving certificates in Civil Defense course given at Bakersfield College Desert Div. Safety Dept's. Al Wiruth and Bill Raines taught monitoring segment of course.

WAR ON GOBBLEDYGOOK

(Continued from Page 1)
communications with the public.

5. That an award be established for Federal employees for excellence in improving communications and contacts.

6. That it be the practice to select for public contact positions and for positions involving correspondence only those persons who have demonstrated ability for such work.

7. That additional training opportunities be provided in written and oral communication and that employees be en-

couraged to take this instruction.

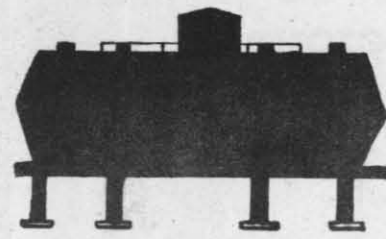
Addressing the annual awards luncheon of the Federal Editors Association at which the Civil Service Journal was cited as the best popular periodical in Government, Mr. Macy called on Government editors to "enlist as lieutenants in the war on gobbledygook" and urged them to bring to bear their "full fire power" in a campaign to improve the dialog between government and the people it serves and concentrate on eliminating fuzziness in Federal writing.

Sword reported that the course was about a third full as of early this week. He asks those interested to refer to course details in the Bakersfield College Bulletin, or call him at ext. 71432. Persons may also call Omar Scheidt, Dean of the Desert Division, at FRontier 5-2348.

The high heel was thought up by a woman who was kissed on the forehead.

SEALAB II Teams Investigate Ocean Depths

Sealab II Makes Dive With Omni-Capable Crew Of Aquanauts



CDR. SCOTT CARPENTER (center, in fatigues) discusses project with (l-r) Howard Talkington, NOTS Pasadena Project Manager; Joe Berkich, NOTS Pasadena Range Engineer, and Harold Price, Head Rigger, from Westinghouse. At right, Cdr. Carpenter breaks surface into open hatchway entrance of Sealab II. Water is kept out with inside air pressure equal to ocean bottom water pressure.



SEALAB II, the second phase of the Navy's "Man-in-the-sea" program is now fully manned and carrying out the mission.

Commander M. Scott Carpenter and Gunner's Mate First Class Wilbur Eaton jumped into the water from the staging vessel BERKONE at 1:45 p.m. PDT, Aug. 28. The first team of aquanauts entered the SEALAB II habitat eight short min-

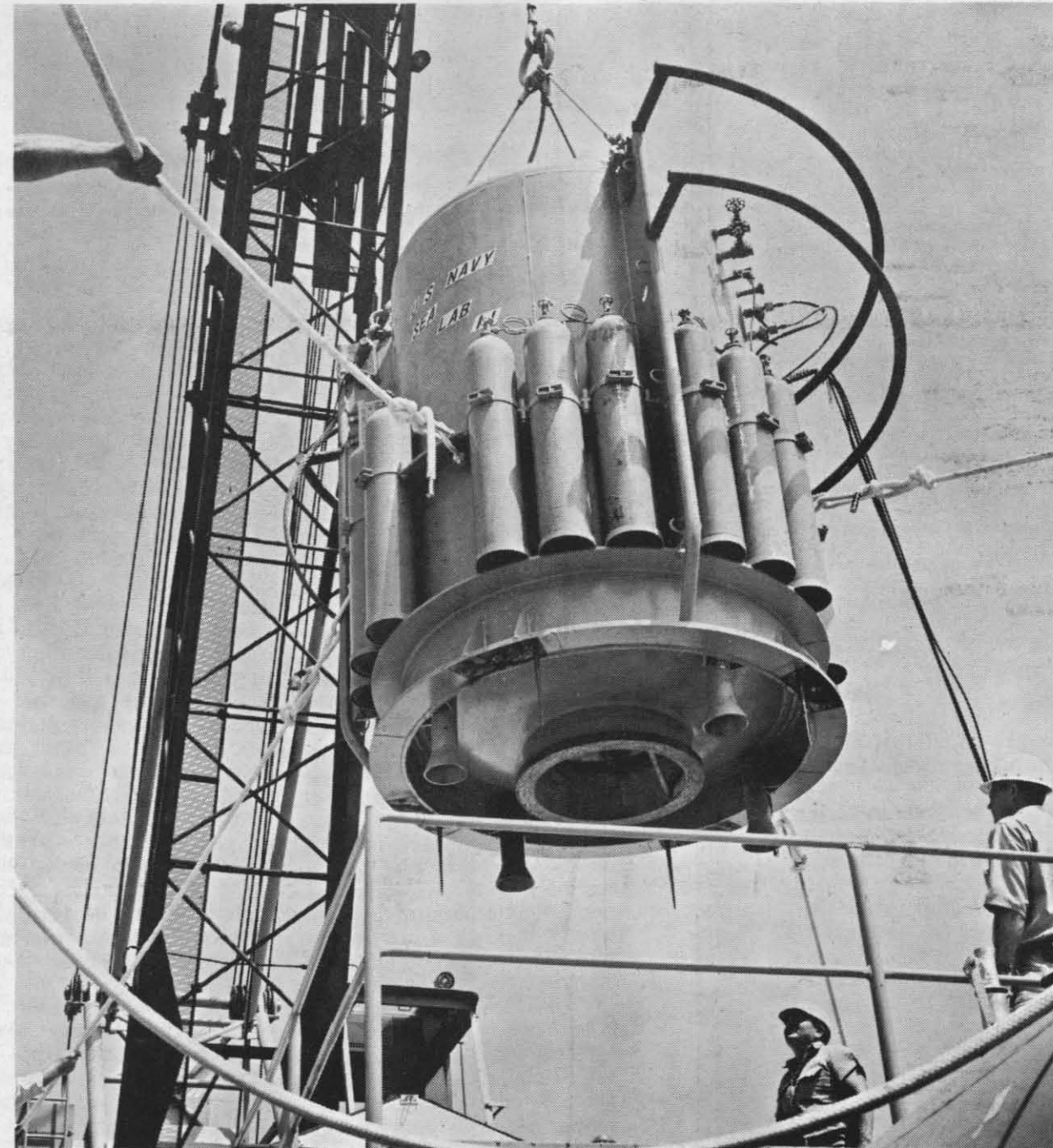
utes later at 1:53 p.m. PDT.

Aquanauts Carpenter and Eaton scurried around SEALAB, turning on equipment and life support systems.

At 2:23 p.m. PDT, the second team of aquanauts, Chief Engineman Cyril Tuckfield, and civilian engineer Berry Cannon entered the water and swam to SEALAB. Their task was to accomplish all the exterior hook-ups and checks

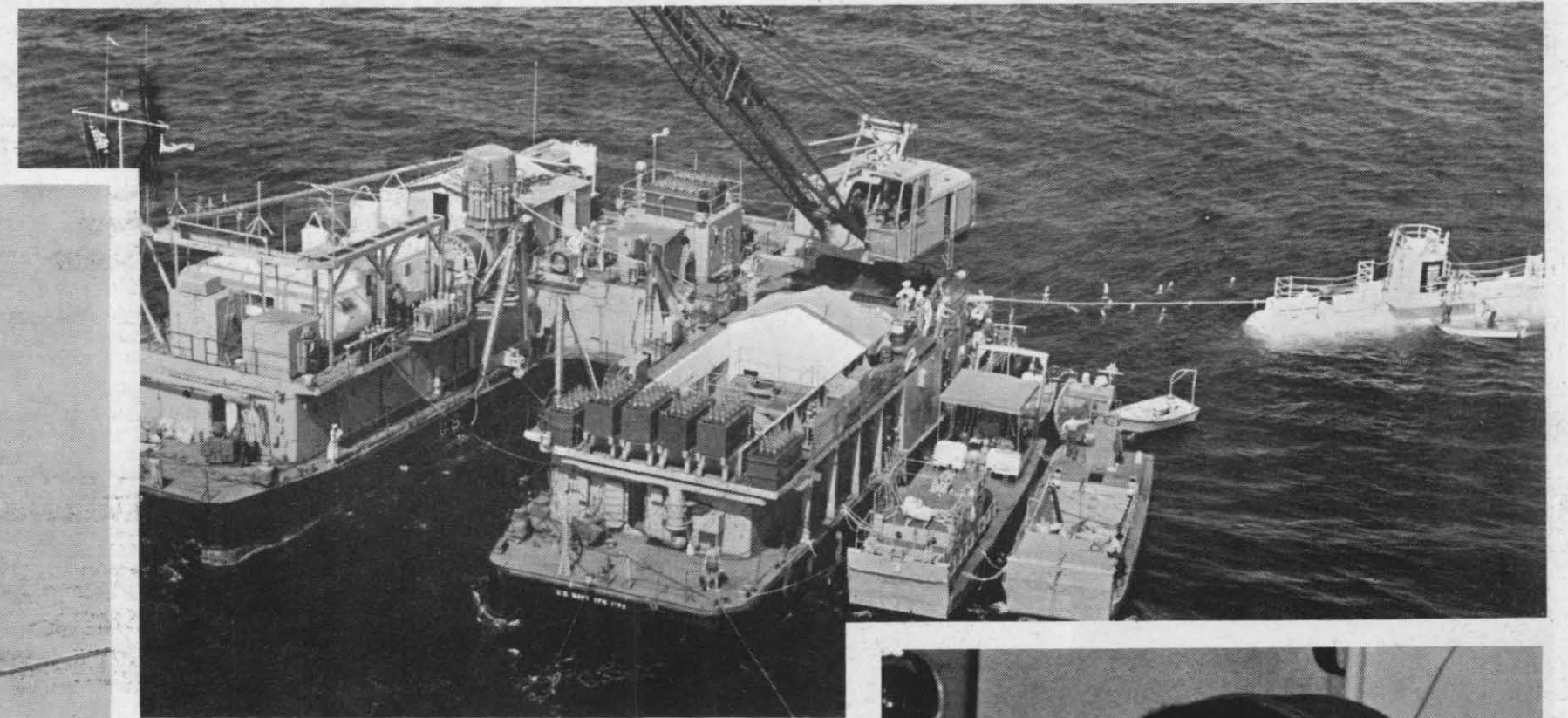
prior to entering the habitat.

The third team to descend, LT. Robert Sonnenburg, Medical Corps, USN, and Billie Coffman, Torpedoman's Mate First Class, entered the water



PERSONNEL TRANSPORT CAPSULE is hoisted by crane from sea, where it is mated to decom-

pression chamber on staging vessel. PTC can bring Sealab men to surface under pressure.



SEALAB II IS MOORED to staging vessel and crane during preparations for submerging. At right, Cdr. Scott Carpenter, astronaut turned aquanaut, talks from bottom of ocean in submerged Sealab to fellow astronaut Gordon Cooper during his record-breaking voyage aboard the Gemini capsule, Saturday, August 28.

at 2:40 p.m. PDT. They were followed by Chief Photographer J. D. Skidmore and Earl Murray, lab assistant from Scripps Institution of Oceanography at 4:30 p.m. PDT.

The last team of aquanauts to enter the water was Chief Engineman Frederick Johler and Thomas Clarke, civilian diver from Scripps. They began their swim down at 5:22 p.m. PDT.

The SEALAB II habitat was fully manned with the first team at 5:55 p.m. PDT.

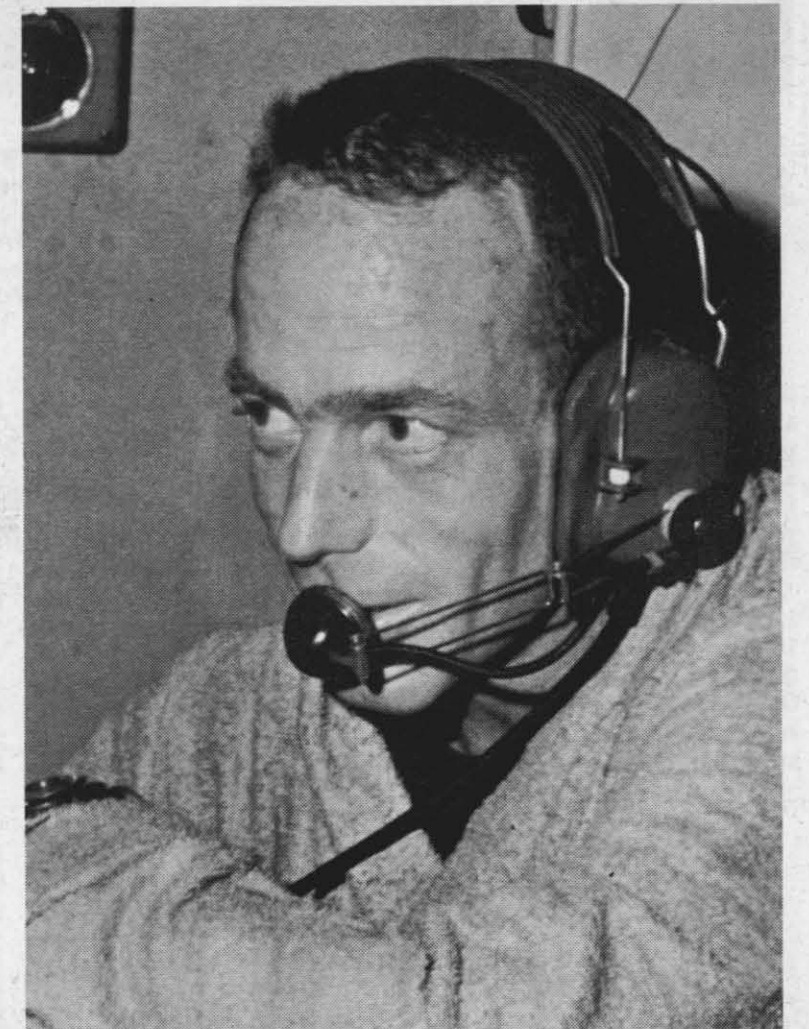
The aquanauts spent the next five hours checking out the topside communications

system; storing wet suits and gear; checking out meters, gauges, equipment; straightening up the working spaces; taking photographs and eating.

The SEALAB "family" consisting of three 10-man teams will remain in the 57-foot underwater habitat for 45 days on a rotation basis. Team leader, Cdr. M. Scott Carpenter, astronaut turned aquanaut, will remain on the bottom for a 30-day period.

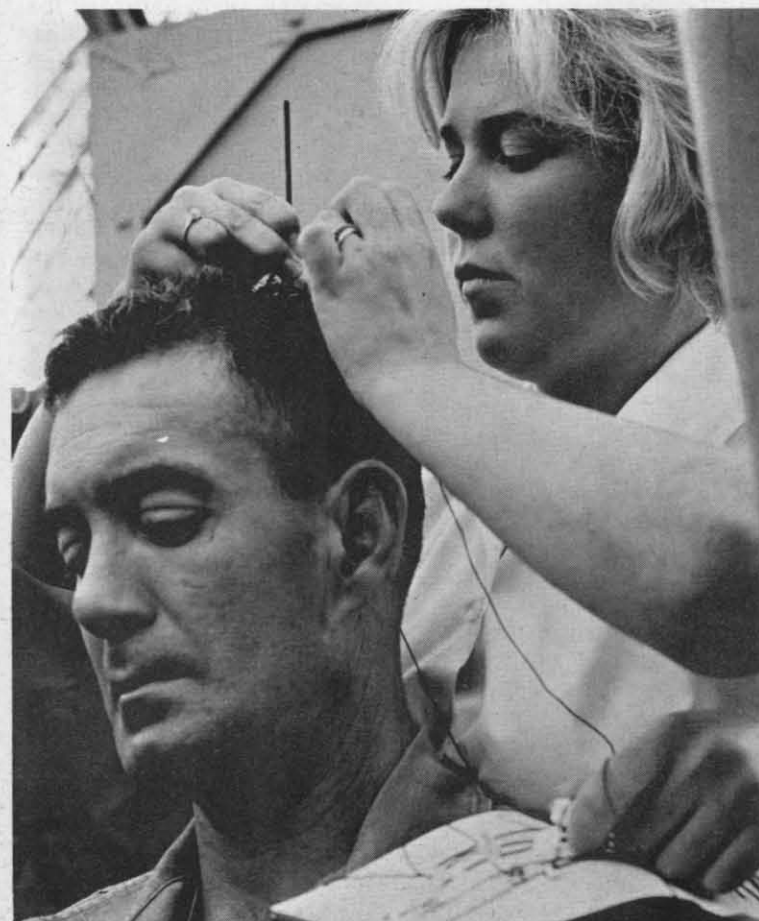
The Sealab II is placed on the north edge of the Scripps Canyon, 1000 yards off the

(Continued on Page 7)

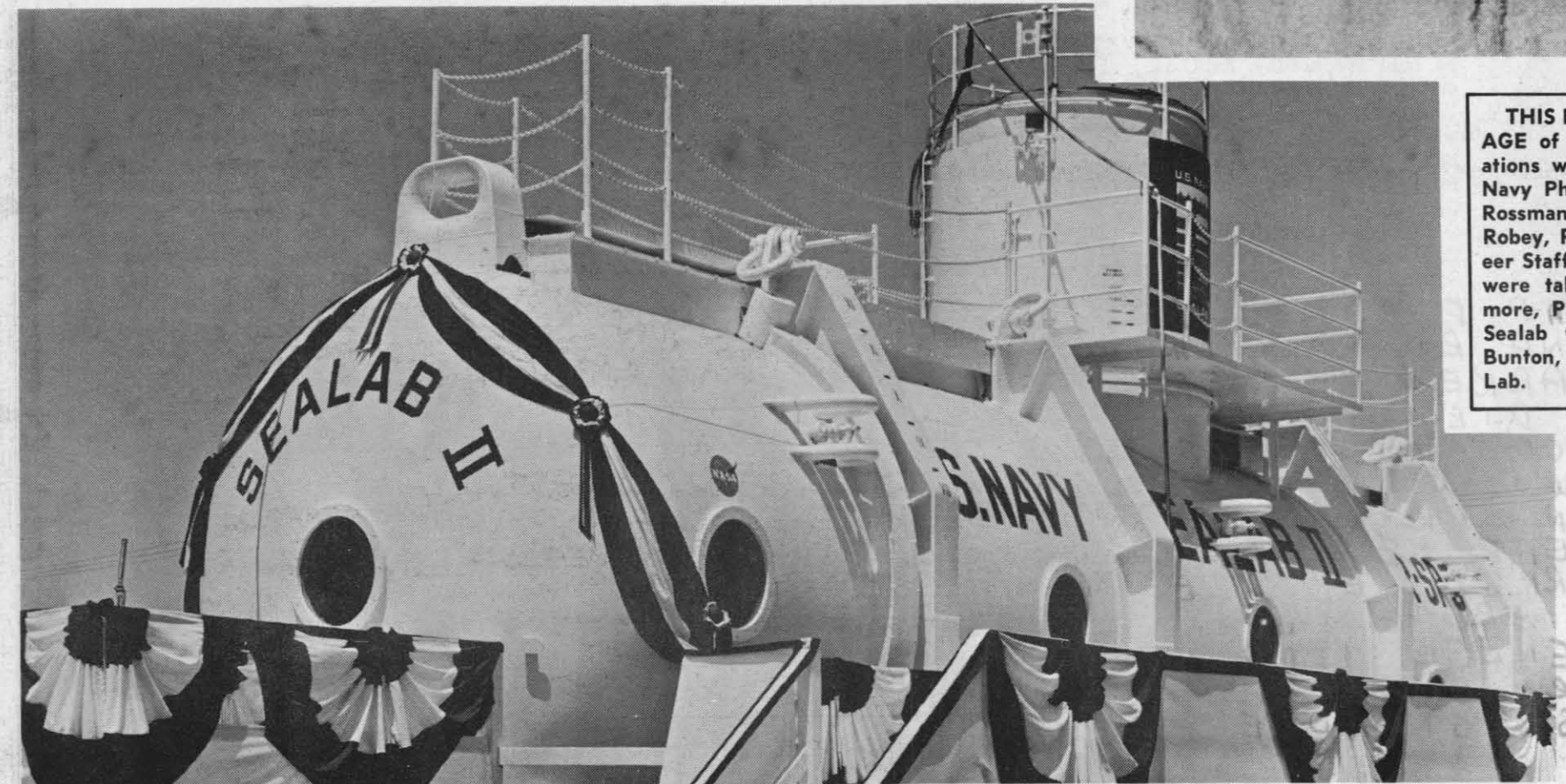


CDR. T. BLOCKWICK of Boston Navy Shipyard; and Ed Carpenter, NOTS Pasadena Project Engineer, observe handling test of

the Personnel Transport Capsule (PTC). It is decompressed on staging vessel after aquanauts ride it up under pressure.



TO WEAR ELECTRODES—Project technician applies electrodes to head of Wilbur Eaton, GM-1, to record electroencephalograms (popularly called "brain waves").



SEALAB II COMING-OUT—In full ceremonial dress, Sealab II was christened by Heidi Nitze, daughter of Secretary of Navy, on Friday, July 23, at Long Beach Naval Shipyard.

NOTS Pasadena participated in initial planning and preparation. Project is called the most extensive test yet of man's ability to live and work in the ocean depths for long periods.

THIS PICTORIAL COVERAGE of the Sealab II operations was accomplished by Navy Photographers Seth I. Rossman, PH3, and Ralph Robey, PH2, on the Rocketeer Staff. Underwater shots were taken by J. D. Skidmore, PHC, a diver on the Sealab team; and William Bunton, Navy Electronics Lab.