ROCKETEER

Friday, June 24, 1966



Juan

inch.



O. E. Miller Wins New Mustang

WINS NEW MUSTANG - Public Works employee Orville E. Miller was the winner of a new Mustang, the Navy Relief first prize. He is seen receiving the keys to his new car from Capt. John I. Hardy, ComNOTS.

Saturday night for NOTS emplovee Orville E. Miller when it was announced that he was the winner of the 1966 Mustang, the Navy Relief first prize this year.

NOT PRESENT

Miller, who wasn't even present at the drawing, had to be called to the telephone in order to get the good news. "At first I just couldn't believe it," Miller said, "but after a while they finally convinced me. I will say this, we're very happy about the whole thing."

He went on to say that after they finally convinced him he felt pretty generous and gave his 1961 Chevy station wagon to his wife

CPO WINS TV

The second prize, a color television set, went to Chief Petty Officer Joseph M. Strichek of NAF. Strichek, a bachelor, will undoubtedly be the envy of his buddies.

According to Navy Relief spokesmen the Saturday night

ACROSS

-High mour

CROSSWORD PUZZLE

6-Chinese boa 7-Test 8-Organs of

sight 9-Probe

0-Ocean

Life took on new meaning tions and individuals that donated their time and efforts. Thanks also were extended to the three musical groups. The Shades of Youth, the Californians, and The Four Dimentions who provided continuous music throughout the affair.

Gem Faceting To Be Subject Of Club Meet

Gem Faceting for Amateurs and Beginners will be the subject of the Indian Wells Gem and Mineral Society meeting tonight. Al Cles, this years Show Chairman will give a comprehensive talk and demonstration on the various phases of gem faceting.

Members and non-members are invited. There will be a short meeting with refreshments following. The event will start at 7:30 at the Rowe Street School building hut at carnival was a big success, the corner of Rowe and Langthanks to the many organiza- ley Street. There is no charge. SHOWBOA

"THE ALPHABET MURDERS" (91 Min.) ny Randall, Anita 7:30 p.m. (Mystery/Comedy) Agatha Christie story detective Hercule Poirot soly detective Hercule Ant murder

s: "Heavenly Puss" (7 Min.) 'Pete's Place" (10 Min.)

MATINEE "MAGIC SWORD" (80 Min.)

Gary Lockwood 1 p.m. len, Chap. No. 3" (13 Min

- EVENING -"HOUND DOG MAN" (87 Min.)

Fabian, Carol Lynley, Stuart Whitman 7:30 p.m. (Drama) A couple of teenagers who idol-ze a local loafer and prominent Romeo find out there's more than huntin' and ishin'- there's GIRLS! Here's a simple back ntry story as pleasant as spring with a g or two. (Adults, mature youth.) Shorts: "Homeless Hare" (7 Min.) "Rodeo Roundup" (10 Min.)

SUNDAY-MONDAY JUNE 26-27 "2ND FIDDLE TO A STEEL GUITAR"

"2ND FIDDLE TO A STEEL GUITAR" (107 Min.) Arnold Stang, Homer & Jethro and 30 Country Song Stars 7:30 p.m. (Country Music) Society matron's opera company fails to show, so down-country husband saves the day with Operie instead of Opera. Leo Gorcey and Huntz Hall mix it up with over 30 of the very best country music stars. Fun galore. (Adults, youth, mature children.) nature children.) Short: "Wild About Hurry" (7 Min.)

TUESDAY-WEDNESDAY

TUESDAY-WEDNESDAY JUNE 28-29 "THE SPY WHO CAME IN FROM THE COLD" (112 Min.) Richard Burton, Claire Bloom 7:30 p.m. (Drama) Cold war espionage thriller has a British Agent assigned to get a German counter-spy chief by intrigue within the party. Romance with a pretty Communist eful. (Adult, mature youth.)

THURSDAY-FRIDAY JUNE 30, JULY 1 "FRANKIE & JOHNNY" (87 Min.) Elvis Presley, Donna Douglas 7:30 p.m.

(Musical) Elvis works on a riverboar (Musical) Elvis works on a riverboat and gambles his salary away until he falls for a co-worker, but an old flame shows up, and trouble brews. Lavish dance numbers and solid songs make this an expensive production. (Adults, youth, children.) Shorts: "Bully For Pink (Pink Panther)" (7 Min.) "Ski Boom" (9 Min.)

STATION LIBRARY LISTS NEW BOOKS

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

Boland-The Catch.

Carroll-The Road Grows Strange.

Clavell-Tai-pan.

Holt-Manfreya in the

Morning. Van Vogt-The Winged Man.

Chinn-"Marcus."

Marric-"Gideon's Badge.'

Underwood - "Anxious Con-

Creative Embroidery.

Selves. Nader-Unsafe At Any Speed.

Foliver—Fighter Aces. Baker - "All Things Consid-

ered."

Longford-"Queen Victoria."

ing Guide."

America." Roth-"Pathway in the Sky."

Samson-"The Mind Builder." Silva --- "Lifesaving and Water Safety Today."

PHYSICALLY FIT?

Seen in the latest copy of Around The Scuttlebutt: "This office requires no physical fitness program. Everyone gets plenty of exercise jumping to conclusions, flying off the handle, running down the boss, knifing friends in the back, dodging responsibilities, polishing the apple and pushing their



AFTER 21 YEARS, GOODBYE - Charles A. Moore, SCH,

receives the traditional flag from LCdr. Fredrick H. El-

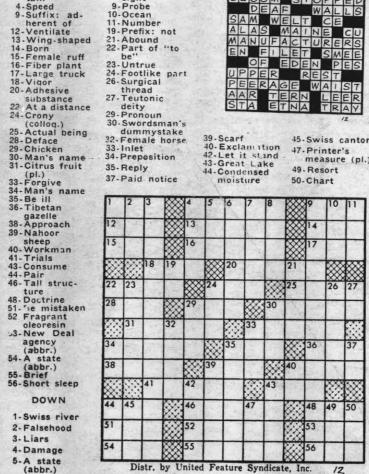
liott, CO, Enlisted Personnel at his retirement ceremony.

Capt. Leon Grabowsky, Executive Officer, also extended his

AWARD IN MATERIAL DIV. - Receiving a Group Superior Achievement Award from Capt. P. W. Jeffrey for exceptional work are (I-r) Frank Ptacnik, Charles Jackson, Marvin Cornelius and Jay Harrington, Material Div.

TECHNICAL DIV. SCORES - Work well done by (I-r) Samuel Martinez, Dorothy Ferguson, James Poore and Dominick Reale earned them a Group Superior Achievement Award, given by Capt. P. W. Jeffrey, Director of Supply.

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Answer to Previous Puzzle

For Use In Authorized Service Newspapers Only.

Lott-"Backtrack." spirator." **Non-Fiction** Brown-The Worlds of Robert E. Sherwood. Enthoven-The Stitches of

Marshall-Beyond Our

Burrowes -- "Your Future in the Navy."

Miracle - "Sportsman's Camp-

Richardson-"Painting in

Glass Sphere to be Featured By Novel Deep Submersible

Dr. W. B. McLean **Leads Workers In Dual Project**

In these times of unusual combinations of people, places and purposes, it should not be surprising that in the midst of the sands of the Mojave Desert, scientists are in the lead of efforts to open up the last great geographical frontier on earth — the unknown depths of the seas.

The latest innovation in the series of strange - looking undersea craft that have appeared mostly in the last four years is the creation of Dr. William B. McLean, NOTS Technical Director, and colleagues. His glass bubble concept for the protective and life - supporting enclosure for a submarine is a radical departure from the heavy, multi-jointed, and viewrestricting metal submersibles that have carried the burden of search and research so far.

Glass Is Tough

The focus of the radically new submersibles in planning at China Lake is a material usually thought to be brittle or. at least, much weaker than commonly used metals.

But research conducted from March of 1964 by two top Navy scientists showed that increasing pressures on a glass sphere made the glass itself increasingly tough - in fact, much tougher than steel.

H. A. Perry of the U. S. Naval Ordnance Laboratory in Washington, D.C., published a paper called "Feasibility of Transparent Hulls for Deep-Running Vehicles" in 1963. Then he and Dr. John P. Craven, chief scientist of the Special Project Office, conducted tests with glass spheres from on board the USNS Gillis over the Puerto Rico trench off San

Blasts Don't Damage

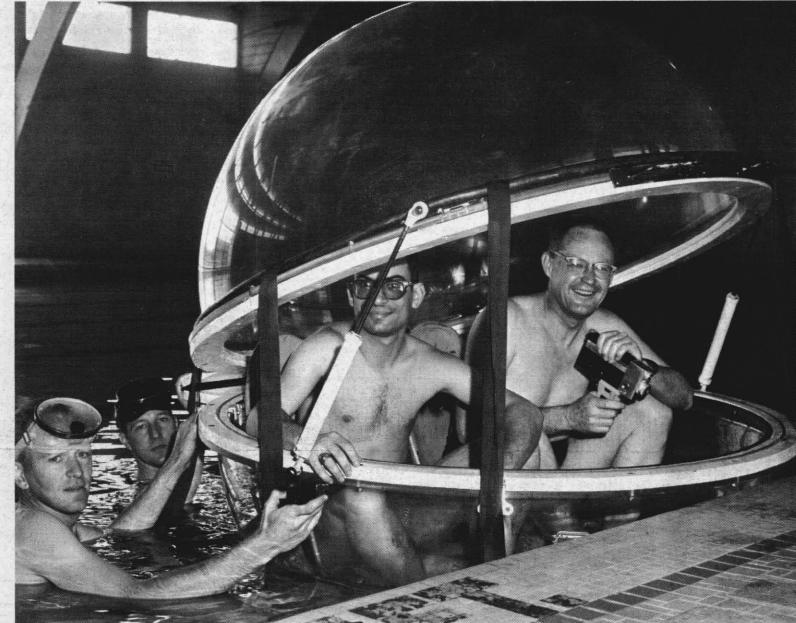
The spheres were subjected to the explosions of pentolite

Actually, two separate projects are being conducted here to build twin - hulled, catamaran - type submersibles using the glass sphere cockpit. One is being undertaken by Dr. Mc-Lean on his own time and with his own private funds, which he envisions as an eventual private pleasure craft. It would be sold commercially and would serve to introduce to a wide section of the public the absorbing interests to be found beneath the sea's surface.

The Station's project is led by Donald K. Moore, head of Code 40's Astrometrics Division; Larry McKinley, Project Engineer; and supporting engineers and technicians of the division's Structures and Materials Branch, headed by Mike Sanitate.

"We are just about to com-





READY TO DIVE — In plastic version of glass cockpit for submersible, Dr. W. B. McLean, NOTS Technical Director (with camera), and Ron Cohn, a Junior Professional mechanical engineer, are ready to make demonstration dive in

deep end of Station swimming pool. Steadying the cockpit before moving it into place for descent (I-r) are Bob Flood, a project technician, and Al McKinley, project engineer. The glass has been tested at over 7,200 feet.

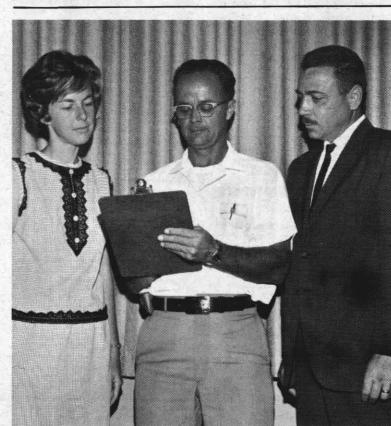
plete tests of a plastic version of the cockpit sphere in the charges at as deep as 7,200 Station swimming pool, and feet, with the charge only 20 we're beginning construction of feet away, without cracking. In a mock-up of the actual boat," this case, the concussion hit says McKinley. It will use the the sphere with a force of over plexiglass sphere and plywood 13,000 pounds per square hulls, and is to be tested in the reservoir at the end of the SNORT track.

Propulsion Will Be By DC Motors

Propulsion for the mock-up will be by DC motors, and will employ two cycloidal propellars. One will be mounted inboard, on each hull just forward of the cockpit sphere, to avoid hitting the bottom and to avoid causing drag when the craft is operating on the surface

The cycloidal propeller, though over twenty years old, has been used little except for some light surface vessels. It has been under development here because of the great maneuverability it can provide. Leonard Seeley, hydrodynamicist with Astrometrics Division, used two of them to propell a

(Continued on Page 5)



CHECKING OVER THE PLAN-The new 1966 board members of the United Fund Drive are shown going over the schedule of the coming drive. Left to right are: Linn Powers, Danny Dandurand and John Finazzo.

Rocketeer Wins Second Place In Annual Contest

63 63

67

67

68 65

56

The Rocketeer was n a m e d "Second Best Sea Services Publication" for 1965 by the Armed Forces Writers League. First place went to the Camp Pendleton "Scout." Over 500 newspapers were entered in the annual contest, ranging in distance from Iwakuni, Japan to Pensacola, Florida.

The 20 papers to make it to the final judging stage had all won three or more awards during the calendar year.

Third place went to the "Tester," NAS Patuxent River, and fourth to the "Boot," Marine Corps Recruit Depot, Parris Island.

The ten judges rated the papers on reader interest, local and command news coverage, sports and recreation news, intelligent use of fillers, layout and typography, reproduction, photos and artwork, features and use of available resources.

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Commerce.

year and after.



Receive Medals For Heroic Acts

LCdr. Ernest Mares received the Navy Commendation Medal last week for heroic action as a pilot over North Vietnam. face - to - air missiles against

Mares and Chavez

"For heroic achievement in ae- ed to the target and pressed rial flight as pilot of a light home a determined dive jet attack aircraft while attach- bombing attack which inflicted ed to and serving with Attack substantial damage on his tar-Squadron One Hundred Fifty- get.

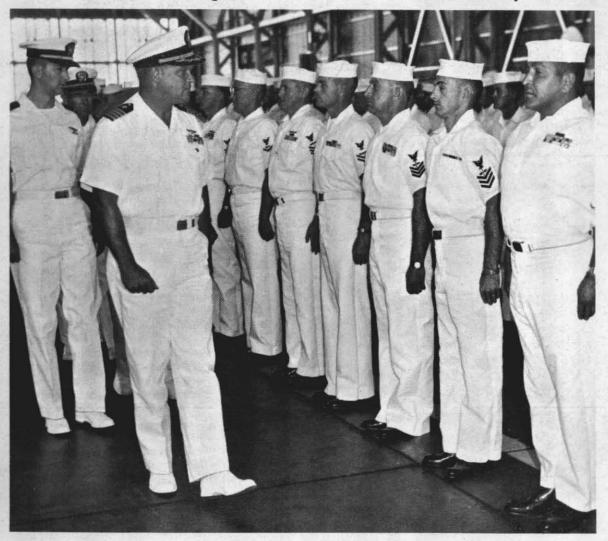
1965

Mares participated in a coor- enemy fighters. His cool and dinated two - carrier strike professional performance in the against the Vu Chau Railroad face of formidable enemy re-Bridge, North Vietnam.

"Despite anti-aircraft fire enroute, and the launching of sur-The citation reads as follows: his strike group, he penetrat-

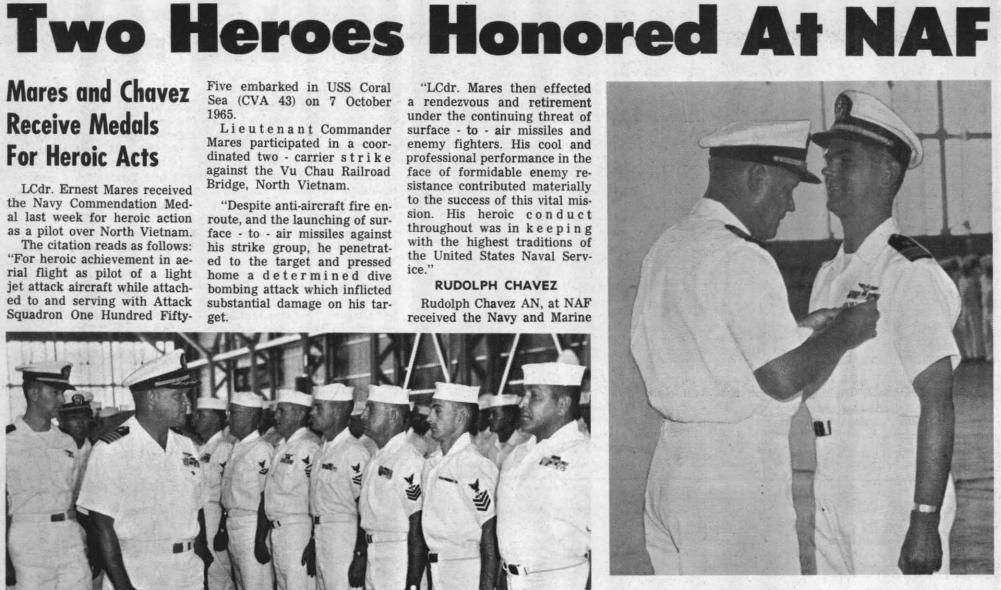
Five embarked in USS Coral "LCdr. Mares then effected Sea (CVA 43) on 7 October a rendezvous and retirement under the continuing threat of Lieutenant Commander surface - to - air missiles and sistance contributed materially to the success of this vital mission. His heroic conduct throughout was in keeping with the highest traditions of the United States Naval Serv-

RUDOLPH CHAVEZ Rudolph Chavez AN, at NAF received the Navy and Marine



CAPTAIN'S INSPECTION - Following the awards presentation Friday, June 10, an in-

spection of NAF personnel was held by Capt. Robert R. Yount, NAF Commander.



LCDR. MARES DECORATED - Capt. Robert R. Yount, Commanding Officer of NAF presents the Navy Commendation Medal for heroic action to LCdr. Ernest Mares during a recent ceremony honoring the occasion.

Corps Medal for heroism last ed to extricate his fellow servweek for saving the life of a iceman from this flaming and fellow serviceman. The citation dangerous situation. reads as follows:

tomobile in which Chavez was United States Naval Service." a passenger, was pinned in the flaming wreckage.

"With complete disregard for his own safety and fully aware of the personal danger involved, Chavez, although injured, unhesitatingly proceed-

"His courageous action in "For heroism while serving the face of great personal risk at the U.S. Naval Air Facility, undoubtedly prevented death China Lake, California on 3 De- or very serious injury to the cember 1965. As a result of an driver and was in keeping with accident, the driver of the au- the highest traditions of the

> Following the presentations, Capt. Robert R. Yount, NAF Commanding Officer held an inspection of the Naval Air Facility personnel.

PHOTOGRAPHS BY **ROBERT HANCOCK PH2**



LIFESAVING MERITS MEDAL - Pulling a man from the flaming wreckage of an automobile results in the presentation of the Navy and Marine Corps Medal to Airman Rudolph Chavez by Capt. Robert R. Yount, CO. NAF.



LOOKING SHARP - The NAF Drill Team also gets inspected by Capt. Robert R.

Yount, NAF Commanding Officer following the awards presentation, June 10.

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'Bluejacket' from NAF Is Civic - Minded Man

NAF, has been chosen Blue- sa. jacket of the Month for June. A man of varied interests and a leader in the Navy community here, he and his wife Bette will represent NOTS in Bakersfield on the weekend of July 8-10 as guests of the Greater Bakersfield Chamber of

Bill, a native Olkahoman, began his Navy career in 1953. after his graduation from high school in Tulsa. There, he had concentrated in the school's machine shop while working a full evening shift in a Tulsa commercial shop in his senior

Bette Elder, a Kansan from Wichita, met her future husband during a three-year break in service when he worked with commercial aircraft. They found a common interest in politics, and engaged in conventions and election activities.

that Bette's interest grew dur- agency.

Bill Lane Elder, ATN-2, an ing the two years she worked avid worker with things elec- as a legal stenographer in a tronic on and off his job at county attorney's office in Tul-

> Both the Elders are active in China Lake groups. Bette is vice - president of the Navy Wive's Club, and Bill serves on the board of the Acey-Ducey Club. They occasionally enjoy fishing trips nearby, though Bill's favorite stream is in the rugged mountains near Phoenix, Arizona.

Bill Elder has been an aviation electronics technician for a year, and previously served as an ordnanceman. He has attended both the Naval Air Technical Training Center in Memphis, where he joined the Fleet Reserves, and the Aviation Ordnance school in Jacksonville during his first tour with the Navy. At NAF he works with maintenance of navigational gear and with civilian vehicle radio systems.

The Elders will drive to Bakersfield on Friday, July 8, to be honored guests of the city "We still keep in touch with for the weekend. They will things back home," he says, stay at the Holiday Inn, and "and we like to follow events drive a new car for the occawherever we are." He explains sion from the Haberfelde Ford

PULSE FIRING-Five-pulse solid propellant system. Before firing, the motor underwent rocket motor fires successfully at Lockheed severe environmental conditions, including

Propulsion Company's Redlands, Calif., proving ground in test conducted for NOTS. The energy controlled motor was developed to demonstrate feasibility of pulsed rockets for use in an air-launched Navy weapons

temperature cycling between extremes of minus 65 degrees Fahrenheit and plus 165 degrees, and vibration along both longitudinal and lateral axes.

- Photo by Lockheed

BLUEJACKET'S HOMEWORK - Bill Elder and his wife Bette churn through paperwork for the Acey Ducey Club in their home at 322 Toro. Bill serves on the club's board of directors, and Bette is vice-president of the

Acey Ducey Wives Club. Both keep up on civic and political affairs, and were active in local politics in Tulsa, Oklahoma between Bill's tours of Navy service. - Photo by Robert Hancock PH2

Ens. R. W. Hardy Bound for Sea Duty

schooling at Mare Island. Academy June 8, and stood 27th in his class. He graduatin political science. The graduating category includes the top 10 percent of the class.

This year's graduating class

The guided missile frigate included 763 men bound for USS King, DLG-10, home-port- Navy service, 79 for the Maed in San Diego, will be the rines, and four foreign stufirst ship for Ens. Randall dents, according to Capt. Har-Hardy, son of Capt. and Mrs. dy, who attended the ceremo-John I. Hardy, come July when nies. He observed that the the new naval officer is to re- class was about double that of port from guided missile 20 years ago, reflecting the increased size of today's Navy. Ens. Hardy was one of 868 More than 4,000 midshipmen graduates from the U.S. Naval studied at Annapolis this year.

Ens. Hardy managed the ed With Distinction, majoring varsity wrestling team at Annapolis, participated in intramural soccer and softball, and was a member of the Public Relations Club.



Ens. R. W. Hardy

Submersible Uses All-Glass Cockpit

(Continued from Page 1)

miniature, lima bean - shaped, unmanned submersible conceived by him and tested last November. (See Rocketeer cover of Nov. 19, 1965).

The propeller consists of a number of variable - pitch parallel paddles revolving in a cylindrical pattern. It is able to change thrust direction through a full 360 degrees with a simple change in blade pitch.

The catamarran - type hull was chosen for its stable surface characteristics, as the submersible is to be operated from surface to the depths and back again without the need for support vessels.

Four Ascent Tanks

The hulls will contain four ried in the hulls. Approximate- able. ly 200 pounds ballast will be Completion Date Set releasable for quick or emer- Completion of the mock-up

complished by releasing a water by September 1. small amount of gas into the ascent tanks, which will in- al submersible using the glass crease in volume as the craft come hopelessly entangled at and their visibility, but it could the bottom, the sphere can be released from the rest of the vessel, to float up by itself.

Controls Similar

Controls for the operator would be similar to those developed in recent and more conventional submersiveloped the world's first combles, such as Deep Jeep, but bat-proven air-to-air missile in would be linked to the rest of its own laboratories. This misthe craft by light, beamed sile is the heat-seeking Sidethrough the sphere itself. This winder conceived, developed would preserve its structural and initially produced by the integrity and strength.

and Moray has provided infor- NEWS.

mation for the life - support system design for the new craft. The system must maintain oxygen and carbon dioxide percentages within close tolerances. There are to be gauges and perhaps an audible warning system to monitor the environment. A de-fogging chemical may be applied to the inside of the sphere, with help from a system which can be turned on to control moisture inside during periods when clear visibility is necessary.

The submersible is to be able to take researchers down for comfortable periods of up to eight hours, with a maximum life - supporting time of 24 hours.

The most obvious advantage of the glass sphere promises sealed "ascent tanks" at their to give aquanaut - scientistsends, and two divided "flota- and also, perhaps, the undertion tanks" midships in the water afficianado - is an unhulls and open to the sea when equalled, nearly, 360 - degree submerged. Batteries for sub- view of the deep surroundmerged power will also be car- ings, a view never before avail-

fabrication is to be August 1

Not only would an operationsphere cockpit greatly extend rises. In case the craft should the capability of researchers lose its battery power or be- by extending both their range give a tremendous boost to the growing national desire to make the sea - at long last - another habitat and ready resource for man

SIDEWINDER

The United States Navy de-Naval Ordnance Test Station. Experience with Deep Jeep China Lake, California .- NAV-

gency ascent.

Normal ascent is to be ac- and the craft is to be in the

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BY DAN MOORE

The Paper Tigers of the NOTS summer bowling league ices were held June 17th with maintain a slim one game lead interment at Rose Hills Cemeover second place Shrikers who tery, Whittier. in turn are being buzzed by the high flying UFO's.

AstroNOTS and Jacks and close 4th and 5th place as the Purchase Division. summer league completes the 8th week of play.

822; men's high series, Lyle 1927 and 1942-1944. Emerick, 663; women's high er, 245; and women's high game, Pat Preston, 221.

mer NOTS employee Alan R. Irvine were saddened by news of his death on June 14th. Serv-

Al retired on disability in September 1964 from his position as Industrial Property Of-Better trail the leaders in a ficer in Supply Department's

Al began his NOTS career at travel frequently. Position in-China Lake in October 1948 High scores are as follows: and transferred to Pasadena in team series, Shrikers, 2435; July 1949. He had served two team game, Jacks and Better, periods in the Navy from 1923-

series, Deanna Bingham, 616; Ireta, who works in the Conmen's high game, Jack Spring- tract Administration Branch of cept when Navy vehicle availthe Purchase Division, and a able 15-year-old son, Malcolm Alan.

OPPORTUNITIES

Reardon, Pasadena Personnel Division, Ex-tension 492. A current SF-58 must be sub-mitted when applying.

Engineer (Mechanical, Aerospace, or General), GS-9 or GS-11 (1 vacancy), Code P5514 ---The incumbent works in support of countermeasure programs related to aircraft and ships, and must be willing to volves coordination with industrial firms and participation in a variety of field operations. Experience with infrared and with aircraft desirable. Own He is survived by his wife, transportation required on a mileage reimbursable basis ex-

Recognition Awarded P808 Personnel



FRANK STRAHALM in the Photo-Optical Section, is rewarded for top job performance with a Quality Step Increase.



QUALITY STEP INCREASE and Outstanding Performance Rating is awarded to Howard Talkington, Advance Systems Branch Head.

11, Code P5514 - Incumbent will be involved in Configuration Control Engineering problems relative to the MK 46 Torpedo. Required to prepare internal and external procedures and instructions: various periodic reports; set up and supply information needed in computer programming.

Engineering Technician, GS-

Mathematician, GS-12, Code P8043 — Mathematical design and computer implementation design of underwater weapon system simulation models. Computer analysis of experimental acoustic data. Minimum of three years professional work including analysis and programming of digital computer systems. Bachelor's degree or equivalent in mathematics or in physics or engineering required.

11. PD No. 9P80015, Code bring their season record to 3 P8084 - Responsible for man- wins, 2 losses. The slo - pitch power and test scheduling for softball team played practice vises control center, and coor- the Podres on June 17th and dinates procurement of range 22nd respectively. test services. Serves as range project engineer for specified tests



LT. W. R. WATKINS, Long Beach Sea Range Officer, bids farewell to R. J. Lemke, BMI, retiring from his naval career.

Lemke Retires After 19 Years

USN, is retiring after more votion, and performance of du-

March, 1962, he served on the 44. USS Hector (AR-7), US Blockade Escort (CTF-95), USS Wor- home state of Minnesota in the chester (CL-144), and the USS Maddox (DD-731) a mong others.

dation letter from Captain G. H. Lowe, Officer in Charge, in

Rocket Action

BY BEN LONG

NOTS Rockets defeated Gup-Engineering Technician, GS- till Co. 21-6 on June 10th, to all Range Branch tests. Super- games with Dan Beckers and

Tonight's league game is with L. A. County Roads at Wright Field

Raymond J. Lemke, BMI, appreciation for his loyalty, dethan 19 years of naval service. ty, while serving as Petty Of-Before reporting to NOTS in ficer in charge of NOTS YFU-

> He plans to return to his future.

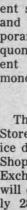
Lemke received a commen- Goal Surpassed

During the current Navy Relief Drive a goal in the amount of \$329 was established for NOTS, Pasadena, including Long Beach Sea Range and San Clemente Island. A final total of \$580 was solicited for the 1966 Navy Relief Drive through the sale of tickets.

In a letter from Captain G. H. Lowe, Officer in Charge, NOTS Pasadena, all personnel involved were praised for this outstanding accomplishment, and the willingness of these personnel "To help the Navy help its own."



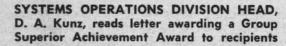
LENGTH OF SERVICE PINS are awarded to (I-r) Shelby Sullivan and Art Kuhn, P8089 employees having completed 10 years with NOTS; and Dave Hultberg, P8083, 5 years service with the Naval Ordnance Test Station.



items

vear.

Lake.



(I-r) Norman Wyman, Arthur Backlund and Greydon Dodge. Wyman also received a 20year pin for total federal service.

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KEY PEOPLE AT AOA MEET - 135 members and 25 guests attended a recent dinner meeting of the Los Angeles chapter of the American Ordnance Association held at the Commissioned Officers' Club. Left to right are: Capt. Atlee F. Clapp, Com-NOTS Representative; Haskell G. Wilson,

Big Change-over Takes Place At Commissary Store

In order to assist the military and civilian patronage of the Commissary Store and Navy Exchange during the transition period prior to the opening of Von's Supermarket, the following information is submitted.

COMMISSARY STORE The Commissary Store will cease its operation at its present site at 6 p.m. on July 15, and will open at its new temporary location, the large quonset hut south of the present store, adjacent to Richmond Road.

NAVY EXCHANGE RETAIL STORE

The Navy Exchange Retail Store will move the self-service department to the Outdoor Shop on July 15. The Navy Exchange Main Retail Store will close on July 26. As of July 28, the expanded Outdoor Shop will accomodate the currently retailed Exchange

VON'S SUPERMARKET

Von's Supermarket will open at the site of the present Commissary and Exchange Stores, located at Ben Plaza.

GENERAL

Civilian patronage of the Commissary Store and Navy Exchange Retail Store will terminate as of September 1. Military patronage will continue in the temporary buildings until the new facilities are completed. Civilian privileges at the Navy Exchange Service Station will end as of December 31. Other services, presently provided under Navy Exchange System, will be transferred to Employee Services Board operation, as feasible, during the latter part of this

Further information on the above change-over will be published in the Rocketeer for the benefit of all Station employees and residents of China

Luxuries are the things that make people go without neces-

Associate Technical Director; Norman L. Rumpp, China Lake AOA President; D. A. (Bud) Kunz, Guest Speaker; RAdm. Mell A. Peterson, USN (Ret.), AOA Executive Director, Los Angeles Chapter, and RAdm. H. O. Hauck USN (Ret.), a visitor.

- Photo by Robert Hancock PH2



GETS THIRD STRIPE - Dr. Richard D. Collier, Assistant Dental Officer at NOTS has reason to smile. On June 15 he was presented with his new full commander boards by Capt. Leon Grabowsky, Executive Officer, and his wife Peggy. Dr. Collier reported to NOTS in August from the Light Cruiser USS Springfield, the Flag Ship for the 6th Fleet, which was berthed in France.

Security Offers Info **For Touring Ranges**

Now that summer's here, outdoor activities in the desert and been posted, and that the vismountains have pleasure and interest to offer valley resi- strictly alone, as well as redents and others. The varied terrain covered by NOTS ranges calls to the sightseer or afficianado of desert life and lore — but not all of it, says which is restricted. Between G-Sam R. McMullen, NOTS Se- 1 and G-2 Tower Roads there is curity Officer.

weather," he explains in a re- tions include remote control incent note, "more and more re- strument stations. quests for recreation passes are being received at the Police Division." He says that new regulations have been written to keep range visitors safe.

The new instruction provides a guide to interesting places on the ranges, as well as warning against dangerous roads and areas.

North Ranges

According to the instruction, the main route to the north ranges is the G-2 Tower Road, best reached by following the signs through the Ground Range Headquarters Area. It leads to the area of Wild Horse Mesa, Carricart Valley and scenic areas in the Argus Mountains. Attractions such as Devil's Kitchen, Coso Hot Springs and the petroglyphs near Haiwee Spring in the Coso Mountains can be reached only from Highway 6, turning east at Coso Junction, south of Little Lake.

The instruction warns, however, that side roads, trails and extensions of the main access roads are not usually maintained, and the wheeled sightseer needs to be especially cautious and skillful.

Scrap Ordnance

"It has not been practical to pick up all scrap ordnance fired on the ground ranges," says Lt. McMullen, by way of warning. "Rockets, missiles, uncased high explosive and artillery shells have been widely scattered. Areas known to contain extremely dangerous duds have been posted. Any ordnance material you may find is potentially dangerous, and handling or removal is prohibited."

He adds that such areas have itor must leave debris and duds spect the restricted areas.

On the ground ranges, buildings and facilities are concentrated in the launching area, a restricted area highly sown "With the advent of warm with duds. Downrange installa-

Restrictions

Restricted areas around the SNORT and G-4 tracks include the installations, readily identified instrument stations and downrange installations as well as those at the track breaches.

Aircraft range building and instrument stations are mostly located on the flat desert floor along the western side of the valley. The buildings and target zone are restricted.

Open Areas

In general, the open areas of this wild desert area are found east of the tall wooden target towers in the center of the area's "waist." The headquarters area to their west is restricted except for access to the Wash and Mojave "B" areas. The gun line, two target tower areas and the 50-foot rocket launcher are restricted.

As on the main NOTS ranges, this area contains widely scattered spent ordnance, including rockets, missiles, machine gun ammunition and artillery shells.

It is also posted, and parents are urged to be sure to caution their children not to handle interesting scraps and fragments.

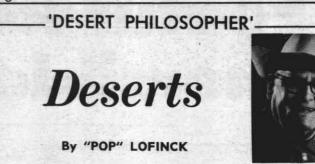
Travelers there should know, says McMullen, that there are few blacktop roads in the area, so that travel through the ranges is not recommended. Parties must enter and leave through the Headquarters Gate.

Occasional washouts make the Panamint Valley Road to Ballarat and the roads south and east of Pilot Knob dange-(Continued on Page 7)



NOTS HOSTS RESERVE OFFICERS — Members of the Naval Reserve Intelligence Division 11-1 from San Diego spent a day recently being oriented on the functions.performed at

NOTS. The day started with the presentation, "Highlights of NOTS Technical Programs," and continued into discussions concerning various weapons tested here.



"What is a desert?" people ask me. That's not a silly question, because different areas of the same desert can be very different.

If you're in a town full of trees with an abundant water supply underground, it doesn't look like a desert at all, even if the town is actually in the middle of a big desert. Many people in the East associate deserts with sand dunes. Even the great Sahara is only one-sixth sand dunes - the rest is rocks and brush like this Mojave Desert.

Geographers define the desert as a region having less than ten inches average annual rainfall — unevenly distributed. In some parts of this Mojave Desert ten inches annual average rainfall might seem like a deluge.

China Lake's annual average over a period of 20 years has been 234 inches a year, but last year China Lake received eight inches — 2³/₄ inches in one 24-hour day. So — average?

On the north area of NOTS, snow is added to the Coso and Argus Ranges by clouds that get over the High Sierra at that point. So you see, there can be quite a variation in 30 or 40 miles distance. I kept records when I lived at Junction Ranch - 6.000 feet elevation - as Security Patrol - but I misplaced them. Anyhow, the snowfall there was always more than in the housing area.

You may have noticed that the creosote bushes are always bigger along the edge of the pavement. When it rains water goes into the gutter and seeps down under the pavementso the creosote bushes get more water. The roots have been found as far down as 50 feet, so they stay green. Also, the carbon dioxide gas from passing cars adds to their growth. Yes, cars exhaust carbon dioxide as well as monoxide. Humans use oxygen — plants use carbon dioxide.

DESERTS CAUSED BY MOUNTAINS

The mountain ranges prevent rain clouds from coming in. The cloud rises - cools off, and dumps its moisture on the windward side. All deserts have wind because of the rising warm air and cool air rushing in over the mountains. Sometimes in the spring the wind blows so long and steady that if it stopped quickly you might fall over.

WILL IT BLOW?

If you want to know if it is going to blow, look up at the High Sierra Range in the morning. If feathery, cotton like clouds are peaking over the mountains, it's going to blow that day — the more clouds, the harder the blow. If you can see sky between the clouds and mountains, the blow will be high over China Lake - not at ground level.

DESERT VIRTUES

The great advantage of the desert is the stimulus to thinking. The wide horizon - big open spaces - silent solitude and bright, starry nights are conducive to big ideas.

DESERT SPAWNED CIVILIZATION

Most great civilizations of the past and most of the great religions evolved from a desert area. Egypt - Persia - Arabia - Northern India - Gobi, etc. About 20 percent of the Earth is desert, with only about four percent of the world's population. But that four percent sure made history. I believe the desert is a challenge - a stimulation, while the forest is soothing. Trees are like music or poetry.

WHERE TO LIVE?

With modern transportation, the best place to live is where you can find an area that appeals to you, but I recommend the desert. Who knows, you might even get a big idea!

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 Affairs Office

Joan Raber News Bureau

Frederick L. Richards Editor Staff Writers

David L. Kimsey John R. McCabe

Staff Photographers Jerry Williams, PH1; Robert Hancock, PH2;

Jerry Willey, PHAN, and Ralph Robey, PH2 (Pasadena).

DEADLINES:

The Rocketeer receives Armed Forces Press Service material. All are official U.S. Navy photos unless otherwise identified inted weekly with appropriated funds in mpliance with NavExos P-35, revised July

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

Protestant-(All Faith Chapel)-Morning Worship-8:15 and 11 a.m. Sunday School-9:30 a.m., Chapel Annexes 1, 2, 3, 4 (Dorms 5, 6, 7, 8) lo-

DIVINE

SERVICES

cated opposite Station Restaurant. Roman Catholic (All Faith Chapel)-Holy Mass-7, 9:30 a.m., and 12:30 p.m. Sunday

Daily Mass-11:30 a.m. in Blessed Sacrament Chapel.

Confessions-7 to 8:00 p.m. Saturday. NOTS Jewish Services (East Wing All Faith Chapel)-8 p.m. every first and third

Sabbath School-10 a.m. to noon, every first and third Saturday.

Unitarian Fellowship-For information write P. O. Box 5436, China Lake, or phone NOTS Ext. 725591.

ROCKETEER

PROMOTIONAL **OPPORTUNITIES** Present Station employees are encour-aged to apply for the positions listed below: Applications should be accom-panied by an up-to-date Form 58. The fact that positions are advertised here does not preclude the use of other means to fill

Machinist, JD No. 169-1, Code 4553, Fa lities Branch - Performs all types of neral machinist work involving machine tool operation and the assembly, installa-tion, and bench work required in the construction and repair of mechanical parts and assemblies. Works from blueprints, sketches, samples, and verbal instructions. Mechanical Engineering Technician, GS-00802-7, Code 4544 - Assist scientists and engineers in experimental ordnance test ing. Will be expected to set-up and oper-ate high-speed cameras; design, fabricate, load, and test experimental explosive de-vices. Must be capable of operating normal achine shop equipment. Some ordnance experience preferred.

experience preferred. File application for above with: Evelyn Moors, Bldg. 34, Rm. 26, Phone 71648. Administrative Officer GS-301-11, PD No. 485003 (Code 85) — As Assistant Department Head, the incumbent is particularly responsible for civilian personnel develop ment, utilization, discipline, work assign-ment and reassignment, promotion and de-motion and similar program, and for performing department - wide functions. Ex-perience required: 3 years general and 3

years specialized. Clerk (Typing) or Clerk (DMT), GS-4 or 5, Code 0101 — Duty Station: Point Mugu, California. Performs all clerical support for Cetacean Operation Group such as trave orders, supply request, correspondence, etc. Will entail some travel between NOTS and Point Mugu. Persons applying should be aware that they must relocate to Point Mu-gu even though working for NOTS. Personnel Clerk (General) (Typing) GS-203-4 or 5, Code 656 – The incumbent proc-

esses the full range of personnel actions required in providing personnel services to two or more major organizational segments of this activity. Experience required: GS-4 of this activity. Experience required: GS-4 level 1 yr. general, 1 yr. specialized. GS-5 level 1/2 yrs. general, 1/2 yrs. specialized. Information Receptionist (Typing), GS-304-3 or 4, Code 652 – The incumbent of the position serves as receptionist for the Per-sonnel Department and reports for general guidance to the Head, Examining and Cer-tification B s or b. Employment Division tification Branch, Employment Division. Prime duties in the position include informational assistance to all visitors to the Personnel Department, maintenance of im-portant documents identifiable with the employment function of the Station, and as-sistance to the Board of U.S. Civil Service Examiners in monitoring examinations, grad-ing of assembled and unassembled examtions, typing, and miscellaneous duties that may occur.

Dental Hygienist, GS-5, Code 87-Scales and polishes teeth, administers stannous flouride medications, treats gum conditions, and performs various administrative func-tions. Applicants must be currently licensed and have successfully completed a full course of two academic years in Dental Hygiene or have had two years of experi-ence as a dental hygienist. Fire Protection Inspector, GS-081-6, Code

842 — Inspects buildings and operations to detect fire h a z a r d s and recommend for their elimination. Also plans and conducts fire drills, gives lectures, and acts as technical advisor on matters pertaining to fire prevention. Experience must include three years general fire fighting experience and V_2 year specialized experience either preparing fire safety regulations and training stering a fire fighting

program. Voucher Examiner, GS-4, Code 2575 -Receives bills, checks for accuracy against stubs, sorts bills and prepares a summary of accounting data; files stubs and main-tains constant follow-up of current stubs to monitor timely and proper receipt of or-dered material. Qualifications: One year general clerical experience plus one yea experience in supply - clerical work. Ap-plicants with knowledge of Navy billing eceipt operations will be considered among those best qualified.

ent Specialist (General), GS-1670-Equipment Specialist (General), GS-1670-7, Code 253 — Provides technical infora Station-wide basis for material and equipmen in a wide variey of Federal Supply Classifications. Qualifications: (General) Three years experience in a skilled trade or mechanical occupation, or as an item identifier, parts clerk or in a position providing technical knowledge of equipment and materials. (Specialized) One year experience closely related to the described duties of the position and which provided a thorough and practical knowledge of spe-

cific equipment or types of equipment. File applications for above with Naomi Campbell, Bldg. 34, Rm. 28, Phone 72218. Electronics Engineer (General), G5-9, 11, 12 or 13, Code 5522 (2 vacancies)-Primary work areas will be semiconductor circuit design, production engineering, and the technical aspects of contract liaison on missile guidance systems. Current projects include the conversion of a guidance sys tem from vacuum tubes so all solid-state circuits with emphasis on microelectronic devices. Experience in semiconductor cir cuit design is desirable but not mandatory. These positions offer the opportunity to ob tain broad experience in electronic engineering including: (1) design (discrete com ponents and integrated circuits), (2) analysis (worst case and stress suppleme digital computer programs (ECAP), and (3) production.

Electronic Engineer (Solid State Devices), GS-9, 11, or 12, Code 5522 - The duties of this position include electronic circuit and is available at the reception counter of the component design with emphasis on the use

Friday, June 24, 1966

CHAPLAIN'S MESSAGE.



By CHAPLAIN PAUL L. TOLAND

Many Troubles

"How did you lose your hair so early in life?" a man asked his 26-year-old friend. "Worrying" he replied. "What did you worry about?" said the inquisitive friend. "I worried about losing my hair," answered the hairless man.

Someone has described worry as "a big bulky thing with warts and hair all over it." I don't know exactly what it looks like but I have seen many of its effects. Worry can convulse the stomach, damage the heart and warp the mind. Worry is a form of stealing. You worry about yesterday - it no longer belongs to you. You worry about tomorrow - it isn't yours yet.

Constant anxiety grows out of a lack of trust in God. Can the God who hung the stars in space, fashioned the world, created man, guide and direct my life? Is He willing to help me through each day? Of course - God is both willing and able.

Christ, Our Lord, has told us, "Do not be anxious saving 'What shall we eat?' or 'What shall we drink?' 'What are we to put on?' for your Father knows that you need all these things. Seek first the kingdom of God and His justice and all these things will be given to you besides."

Try putting the Lord first in your life and be sure that whatever happens, wherever you are, God will be there. Where God is, there is victory; there is peace of mind and heart and soul.



FULL LIEUTENANT NOW - Gerald E. Thalken, Administrative Assistant to the Commander, gets a helping hand with his new bars from the two office secretaries, Dovie Hampton (I) and Dana Thompson while Capt. John I. Hardy, NOTS Commander, looks on smiling in approval.

ical assignments include original designs to perform new functions and redesign of ex-isting circuits to decrease cast and it of existing circuits to decrease cost and improve reliability. In addition to electronic theory, the applications of microelectronic devices require knowledge of manufacturing processes and materials used. This position offers the applicant the opportunity to broad en his knowledge in these areas by utilizing the established laboratory faci the handling and fabrication of hybrid integrated circuits and thin-film devices. File applications for above with Loretta

Dudley, Bldg. 34, Rm. 34, Phone 71514. Sheetmetal Worker JD No. 217-2, Code 70422 - Works with sheetmetal of 10 to 26 gauges in thickness (.019 to .125). Occasionally works with thinner metals and up to 1/4 inch in thickness. Lays out, fabicates, assembles and installs and repairs objects and equipment. Works from blueprints, sketches and oral instructions. File applications with Dora Childers, Code 657, Room 32, Phone 71393,

NAVY OVERSEAS - COMPETITIVE PROMOTIONAL EXAM.

terman Truck Driver (Heavy Trailer), Pearl Harbor, Hawaii, Annc. No. PWC-Application Card Form NAVEXOS-4155-AB and Standard Form 57 must be filed with the Industrial Relations Department, U.S. Novy Public Works Center, U.S. Naval Base, FPO San Francisco, 96610, not later than close of business on 15 July 1966. Those who filed under announcement no.

PWC-66-1 will be considered under this new announcement and need not file again. Information on other overseas vacancies

Personnel Department. arm

Will Be Changed To 880-1700

Beginning June 27, the Automatic Voice Network (AUTO-VON) number will be changed to 880-1700. AUTOVON is the basic general purpose switchedvoice network within the Defense Communications System, and serves most major installations in the Continental United States as well as Alaska, Hawaii and Panama.

AUTOVON trunks are used to provide point-to-point command and control circuitry as well as common user circuitry. Users are subject to automatic preemption by high priority subscribers when no idle circuits are available.

Tourist — that's a person with a heavy tan on his left

Friday, June 24, 1966

ROCKETEER

NOTS All-Stars To Enter Tourney At Bishop Friday

The NOTS All-Star softbal team will enter an Invitational Tournament this weekend at Bishop, Calif. Manager Pete Zammoron of the Tigers will take the Station Inter-mural League players to Bishop for the elimination play-off.

The first game is scheduled for Friday night, June 24, at 8 p.m. The players are: SIDEWINDERS

Jack Miner, Jim Ayers, Bob Ramariz and Bob Hooper. TIGERS

Denny Creager, Jim Dowda, Bill Brown, Gene Smith, Bob Schoonmaker, Art Craddock and Tom Galyon.

SAINTS Pete Clauson

ENGINEERS

Roger Short, Bob Crawford. and Bert Gallaway. VX-5

Don Merritt and Bob Rose.

Little League Baseball Is Week into 2nd Half

After one week of play into the second half Little League baseball, the Dodgers lead a pack of six Major League Division teams.

The second half's first week standings show:

	von	LOST
Dodgers	2	0
Giants	1	1
Pirates	1	1
Tigers	1	1
Yankees	1	1
Red Socks	0	2
and states in the states of the		Sale 19.8

Local Lions Offer Pancake Breakfast

The double - header Chuckwagon breakfast, to be prepared by local Lions on behalf of the Desert Empire Fair this Saturday morning, will be served from 7 a.m. to 12:00, in the **Ridgecrest Bank of America** parking lot, under the supervision of Tom Zurn, president of the DEF Advisory Council of Clubs.

The breakfast has the twofold aim of raising funds toward the purchase of a permanent fair grounds and of kicking-off the "Fair Pair" contest which will wind up dur ing this year's fall celebration.

As membership chairman, Director Rae Leonard has scheduled personnel to sell the three types of memberships while the serving is in process. At the same time, the "Fair Pair" committee under "Uncle Mike" Molnar will be accepting applications for manand-woman couples (not necessarily married, but both over 21) who want to vie for a cash prize, in the manner of the Queen Contest of past years.

Breakfast tickets at \$1.25 for adults and \$1.00 for children under 12 are on sale now at places of business and in many China Lake departments, and will be available all morning on the premises. Children under six accompanying ticket purchasers will be fed free of charge.

Margaret Lowe **Receives BPW Scholarship**

At the Flag Day luncheon meeting of the China Lake Business and Professional Women last Tuesday, Miss Margaret Lowe, daughter of Mr. and Mrs. Robert M. Lowe of Ridgecrest was named recipient of the BPW scholarship given each year to a graduating girl who is seeking higher education.

Miss Lowe was introduced by Mary Neufeld, Program Chairman, who gave a resume of her outstanding scholastic achievements and presented the scholarship. Miss Lowe has been an outstanding student during her high school years at Burroughs. She was one of 21 in the graduating class of 1966 to wear the gold cap and gown for having been a mem-



MARGARET LOWE

ber of the California Scholarship Federation for four years. Other activities include membership in the Pep Club, Girls Athletic Assn., Drama Club, Tennis Club, Burroughs Choir, Jobs Daughters and Youth Fellowship at the All Faith Chapel. She received special recognition from her classmates when she received a scholarship from the Girls Service League. Her plans are to attend Bakersfield Junior College, continuing at UCLA for a degree in Education and Mu-

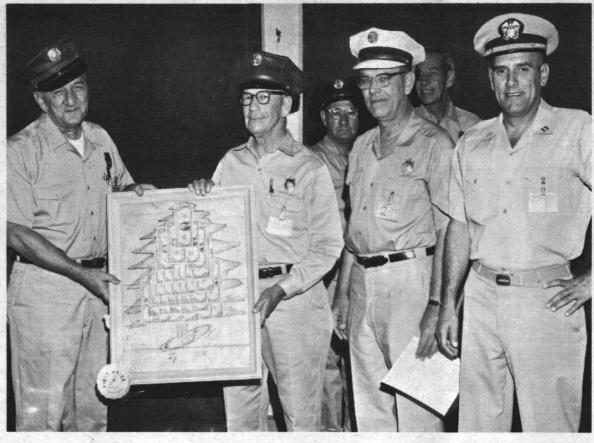
Child Is Bitten By Field Mouse; Caution Is Urged

Another local child has been bitten by a rodent, this time it was a field mouse. Parents are again urged to caution their children about playing with or trying to capture these rodents.

In the event someone is bitten, every means should be taken to kill the animal so that it may be examined for rabies. The Rabies Control Officer advises however, that the head of the animal should not be damaged as it is the head that is required for the examination.

UNDERSEA R&D

Navy has plans for additional undersea ranges supporting Among Navy's current facilities is AUTEC, Atlantic Underter in Bahamas.



FIREFIGHTER FIGHTS NO MORE - After 23 years as a fireman, Cec H. Wade has decided to hang up his axe. J. M. Becker presents a "money tree" to Wade, an art hobbyist, as a going away present. Helping Wade celebrate his retirement are Fire Chief J. A. Davis and Security Officer Lt. Samuel McMullen

Security Office Gives Tour Info

(Continued from Page 3) rous. The road to Trona north and west of the headquarters area is barricaded, and the roads going east to Ft. Irwin from Randsburg Wash or Mojave "B" are closed. Also, the Air Force Bombing Range at Cuddeback Lake, south and west of Pilot Knob, is closed to the public.

The Wingate Pass Road is virtually impassable near the Death Valley boundary, but the Layton Canyon Road is accessible to four-wheel drive vehicles - but only those.

Planning a Tour?

Station personnel can get recreation passes from the Police Division at the Main Gate. They are normally issued after 7:30 a.m. on the day of the trip

volved in traveling to points of interest and the time it takes to complete a visit in one day, passes are not given after 10 a.m. on the day of the trip. Specific instructions for use of the north ranges or Mojave "B" are attached to the pass-

Visitors who want to capture the beauty of the desert on film, or to build campfires at a picnic site, can obtain special perimts from the Police Division.

Make Reservations Early

Sponsors of groups requiring arrangements in advance or for large numbers should let the division know well ahead of time. It will notify NAF Operations (Code 18) and the Scheduling Branch (Code 3014) for appropriate action.

There's plenty of scenic beauty, recreational opportunity and interest for students of R&D programs and evaluating the desert on the far - flung related operational systems. NOTS ranges. Visitors to the ranges can enjoy them safely and more fully by using the sea Test and Evaluation Cen- rules and suggestions of the Security Department.

Blood-Alcohol Chart Shows When Judgment is Endangered

A recent note from the Station Hospital - for the benefit of everyone who drives — shows how much a little drink or two really "gets to you," on an average of many individuals.

Still, every driver must add to this blood-alcohol chart the rest of the equation, including the factors of temperament, state of mind and respect of dangers of the highway. The chart shows percent of alcohol in the blood:

DRINKS	. 1	2	3	4	
Body Weigh	ıt				
100 lb.	.033	.075	.113	.150	
120 lb.	.031	.063	.094	.125	
140 lb.	.027	.054	.080	.107	
160 lb.	.023	.047	.070	.094	
180 lb.	.021	.042	.063	.083	
200 lb.	.019	.038	.036	.075	
220 lb.	.017	.034	.051	.068	
240 lb.	.016	.031	.047	.063	-12

A person is legally sober with up to .05 percent of alcoho in the blood stream. Research data shows that at about .05 percent, the judgment is definitely impaired.

Engineer Society To Host A Trip Because of the distances in- As Next Meeting

NOTS engineers and scientists will be attending next week the 4th Plume - Signal Interference Symposium at the Johns Hopkins University, Applied Physics Laboratory, Howard County, Maryland.

The symposium is sponsored by the Naval Air and Ordnance Systems Commands. Leroy J. Krzycki, Propulsion Development Department, is the meeting general chairman.

The symposium is directed to the broad technical aspects of solid and liquid rocket exhaust plume interference and attenuation of electromagnetic guidance and telemetry signals. Twenty - three papers will be presented in the two - day meeting.

Two NOTS papers, "Effect of a Rocket Exhaust on the Transmission of a Frequency Modulated Microwave Signal" by M. C. Creusere and L. J. Krzycki and "Experimental and Analytical Studies of Microwave Attenuation and Modulation by Rocket Exhaust Plumes" by A. 2-Geneva cross. C. Victor, D. L. Harp, and H. 3-Cross of Lorraine. M. Larsen will be presented. 4-Greek cross.

Credit Union Still Trying To Verify All Local Membership

The supervisory committee is continuing its efforts to verify all credit union membership accounts. A selected distribution of statements will be made early in July. All recipients are urged to send in their replies as soon as possible in

Committee, Post Office Box 5523, China Lake, California 93555.

QUIZ ON CROSSES

This is a quiz on nomencla-

behind the crossbeam is named for an early race?

2-Which cross is named for a Swiss city?

3-Which cross is named for a French province?

a country?

Quiz Answers 1-Celtic.

order that the requirements governing Federal Credit Unions be met ces of accounts should be directed to Warren G. Stelzmill er, Chairman, Supervisory

Questions regarding balan-

ture of cross forms. Six answers correct is excellent. 1-Which cross with circle

4-Which cross is named for