ARMED FORCES DAY

FRIDAY, MAY 14, 1965

THE BLUE ANGELS

AND THE U.S. ARMY'S GOLDEN KNIGHTS





FAMED UE ANG



CDR. BOB AUMACK



LT. BOB McDONOUGH Right Wing (Plane No. 2)



LT. CLARENCE HUBBARD Left Wing (Plane No. 3)



FRANK MEZZADRI Slo: (Plane No. 4)



LCDR. DICK OLIVER Solo (Piane No. 5)

Army 'Golden Knights' 'Chute at 10:20 a. m.

China Lake inday will be a "sky gawkers' " paradise as the Armed Forces Day program features the U. S. Navy's "Blue Angels" and the U.S. Army's "Golden Knights" aerobatic parathe team

Captain John I. Hardy, USN, concert prior to a demonstra-Station Commander, said the ac-tion by the NAF Precision Drill rial demonstrations will provide Team. rial demonstrations will provide a spectacular opening for the once-eyear "Open House" program designed to acquaint the public with phases of research and development techniques at the Navy's largest scientific lab oratory.

Activities begin at 9 a.m. at various other breath-taking the Naval Air Facility and Air Development Squadron Five with static displays of aircraft and equipment. Model aircraft somic "Ingers" at 11:30 to personic these supersonic "Ingers" at 11:30 to personic Alkali Angels. The Burroughs High School Band will give a (Continued in Col. 3)

atory. mass drops, baton passes and Activities begin at 9 a.m. at various other breath-taking



CAPT. FRED CRAIG



LCDR. BOB COWLES PIO (Plane No. 7)



LT. SCOTT ROSS Engineering Off. (Plane 8)

LOOK OUT BELOW!-Fear not, the "Golden Knights" parachutists know their business, can land on a "dime." just what they did to win championship.

'Angels' Fly at 11:30 a. m.

loops, reverse Cuban Eights, a China Lake Community Center tight 360-degree turn, the beautiful "Fleur-de-lis" breakup and

other unique passes.
The Supersonic Naval Ordnance Research Track (SNORT) will again this year, as in previous years, permit visitors to view track sleds and cameras beginning at 12:30 p.m. Then, at 2:30 the count-down will begin for a rocket sled firing on the 4.1-mile track - the same track where the NASA Gemini two-man spacecraft successfully underwent its first high-speed rocket sled test.

Michelson Laboratory tours commence at 12:30 p.m. and continue until 4:00 p.m. and include selected areas for exhibits and demonstrations of scientific ad-vancements in weapon develop-

The new Weapons Exhibit Cen ter, showing NOTS developed weapons since the Station's inception in 1943, to the present, will be open to visitors through-out the day. Visitors are also to be conducted through the Maturango Museum where they will see countless displays of historieal artifacts found in the Upper Mojave Desert, including examples of the famous petroglyphs.

For early arrivals at the Sta-

Military and civilian person-nel assisting LCDR L. B. Shults, Armed Forces Day Project Offic-

er, in the planning and adminis-tration of open house activities are LCDR Robert Clasen, ENS Marvin Clark, William Cooper, LTJG James Conway, William Davis, Charles Dye, LT John Frankel, William Hampton, LT Edward Kane, LCDR Loren Kin ne, Alma Koch and LCDR William Lewis.

Also John Metroulas, Milton Mollick, LCDR Little Player, Fred Richards, Ray Sinnott, Wil-liam S. eel. William Thomas, Ed-Valerio and Harold Varndell

Shuttle Bus Service

A shuttle bus will be available today for those who don't have cars or don't want to drive them to the Naval Air Facility. The bus will operate between the Maturango Museum and the Na-val Air Faellity, at 9 a.m., and pertinent to the miniature war-will continue on an "as need ship display. ed" basis

The bus will run between the museum and the SNORT Track tion, a Kiwanis Club Armed during the afternoon starting at Forces Day pancake breakfast 12:30 p.m. Ample parking is p.m. Ample parking is will be served outdoors at the available at the museum area.

Program and Map, Page 12

For the benefit of new-comers, particularly, to the Station, a map of the Armed Forces Day activities area and the program of events are printed on Page 12.

Miniature Fleet At Weapon Center

A miniature U.S. Navy Task Force of surface ships is a special Armed Forces Day display in the NOTS Weapons Display Center.

The little fleet was assembled by George "Gunner" Schneider, Jr., under the sponsorship of the Maturango Museum

Young Schneider and Richard Wolff, who helped him in preparing the display, will be present to answer questions of visitors and to distribute literature

Also in the Weapons Display Center are many of the NOTSconceived, built, researched, developed and tested items of ord-

ARMED FORCES DAY

President's Message

Our country today is stronger militarily than at any other time in our peacetime history. Our strength of arms is greater than that ever assembled by any other nation.

The successful execution of all our policies depends upon the ability to retain the talent and fitness of the outstanding men and women in the military services. Those who serve their country in the Army, Navy, Air Force, Marine Corps and Coast Guard, from whom we ask so much, are the cornerstone of our military might. Their contribution to our freedom and security is beyond measure.

As Commander-in-Chief, I join all of my fellow Americans in high tribute to our servicemen and women on Armed Forces Day, 1965.

-Lyndon B. Johnson President of the United States



CAPTAIN J. I. HARDY COMMANDER

Welcome From Your Hosts

The Armed Forces Day op en house at China Lake af fords us the opportunity each year to acquaint you, the vis-iting public, with some of our weapon research and devel-opment programs and techniques unique in the fields of science and engineering.

It is an opportunity for us, too, the combined military-civilian organization, to pause and observe our achievements that reflect, in some way, everyone's part in carrying out the mission of the U.S. Nav-al Ordnance Test Station, and the security of our nation.

We greatly appreciate the generous cooperation of the U.S. Army's Parachute Team, the "Golden Knights" and our own Navy's Flight Demonstra-tion Team, the "Blue Angels," in augmenting the Armed Forces Day program.



DR. WM. B. MCLEAN

Command NAF and VX-5



CAPT. ROBERT R. YOUNT CO of NAF



CDR. JACK MANHERZ CO of VX-5

An interest-packed program of static and action displays

An interest-packed program of static and action displays is on tap this Armed Forces Day at the Naval Air Facility, commanded by Captain Robert R. Yount, USN, and Air Development Squadron Five, CDR. Jack M. Manherz, USN, commanding. The two units have arranged a display of Navy aircraft and space-age crew equipment, on view from 9:00 a.m. to 12:30 p.m. The aircraft are the AIG, A4E, DT-288, F4B, F8E, F9F, KDR, Q2C, SAZ, SH-34, TF-10B. Crew equipment includes a full-pressure high altitude suit and survival equipment.

The Naval Air Facility's avard-winning necision drill team.

The Naval Air Facility's award-winning precision drill team will show its skill at 10:30 a.m.

SecNav AFD Message Armed Forces Day finds units of the armed forces -

of the Navy-Marine Corps team employed in a multitude of varied tasks to which our country has committed itself in defense of freedom. This flexible, versatile and highly mobile team together with other members

strates the tremendous military power available to our country in its efforts to fulfill its worldwide responsibilities

> -Paul H. Nitze Secretary of the Navy

In Charge of Today's Program

Behind the varied and exten-sive displays, tours, exhibitions and performances for today's Armed Forces Day are a platoon of officers and department personnel working to make this observance the smoothest and

Officer in Charge LCDR. Lewis B. Shults is officer in charge of the Armed Forces Day program for the Sta-tion. His wide-ranging Navy background gives him a com-plete view of the needs for and uses of NOTS' development and testing activities.

His previous experience included a tour as assistant per-sonnel Fleet Readiness and Training Officer, CincPacFlt, Pearl Harbor, and Training Officer for PACOM military as ance program countries. Before that he was aide and flag secre-tary for Commander, Naval



LCDR. LITTLE PLAYER NAF Programmer



LCDR L. B. SHULTS AFD Project Officer

Forces in Korea, headquartered

NAF Supervision
Heading up the contributions
from the Naval Air Facility is
LCDR. Little D. Player, assistant operations officer. He arrived at NOTS in December, 1963, from duty in search and rescue operations at the Pacific Missile Range Facility at Kwajalein, in the Marshalls. Previously, he flew P2V Neptunes on photo missions over Antarctica as part of his duty with VX-6, headquartered at Quonset Pt.,

VX-5 Participation

Air Development Squadron Five's part of the Armed Forces Day activities is under the su-pervision of ENS. Marvin N. Clark, Jr., of its Administration Dept. He came to NOTS in Jan uary, 1965, from OCS training at Newport, R.I. ENS. Clark graduated from Bowling Green

Green, Ohio, with a degree in personnel administration before entering the Navy in February,

Other Chairmen Chairmen for other activities and displays for the NOTS de-

partments are the following: LCDR. Loren Kinne, William E. Davis, Aviation Ordnance; Charles M. Dye, Weapons Devel-opment; Mrs. Alma L. Koch, Propulsion Development; William W. Steele, Research; William T. Cooper, Engineering; Ray A. Sinnott, Technical Informa-tion; LCDR. William W. Lewis, Jr., Command Administration; HMCA Harold J. Varndell, Medical: LT Edward F. Kane, Chap-lain's office: Milton Mollick, Central Staff: William C. Thom-as, Safety: LT James D. Conway, Supply: John G. Metroulas, Per-sonnel: and Eddie J. Valerio, Navy Exchange

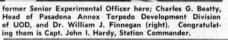


ENS. MARVIN CLARK Assisting at VX-5

Some of NOTS People and



L, T. E. THOMPSON AWARDS, symbolic of the highest recognition for contributions toward fulfillment of the Station's mission, were presented last November to (I-r) Dr. Lohr A. Burkardt, Aesearch Dept.; Captain William J. Moran,





TITAN III space booster segment, loaded with solid propellant, roared down this Station's Supersonic Naval Ordnance Research Track last July and rammed into a specially-built barricade: steel reinforced concrete wall 20 feet long, 20 feet high and six feet thick, backed by solid steel plate three inches thick and hill of dirt. It demolished concrete wall, hurled buckled plate 200 yards. Test was conducted in conjunction with Air Force project.



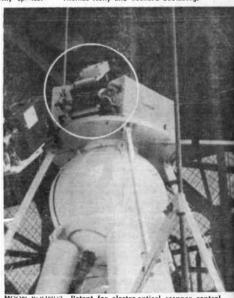
CHAPARRAL, an air defense system employing four Sidewinder IC missiles developed here, is undergoing engineering design and evaluation test work under Army sponsor-

ship. Some of the Station personnel engaged in the project are Byron KinKennon, Don Herigstad, Ed Creer, Charles Frederickson, Thomas Kelly and Leonard Soulsberg.



ATOP MT. ARARAT, George Silberberg (third from left) of NOTS Test Dept. takes part in flag-placing ceremony at the 17,000-foot sumit in Turkey last August. Silberberg took leave to join the historic archaeological ex-

pedition which hoped to find remnants of Noah's Ark. Other climbers are Bud Crawford, Gordon Mansell, Dr. John Lunt and Roger Brown. Dick Pownall took picture.



MOUN BOUND?—Patent for electro-optical scanner control guidance package (circle) atop Soft Landing Vehicle was granted to Aviation Ordnance Dept.'s Paul Driver and two former NOTS employees. Device could be utilized to softland a space vehicle on the moon.

SOUVENIR EDITION

ROCKETEER

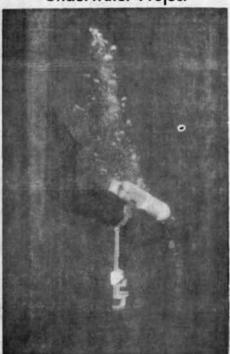
ARMED FORCES DAY



U. S. NAVAL ORDNANCE TEST STATION

PASADENA, CALIFORNIA
UNDERWATER ORDNANCE FOR DEFENSE

Underwater Project



NAVY DIVERS are lauded for their perilous underwater assignments. Providing support to all NOTS projects at Long Beach, San Clemente Island, or Morris Dam, their work includes installation of facilities, evaluation of sound equipment and recovery of torpedoes. This diver carries a large wrench to make an adjustment.

Review of Sea Cadets



PARTICIPATING to a great extent in civic affairs, NOTS Pasadena works closely with the Pasadena Council of the Navy League of the United States. Navy Day ceremonies at NOTS Pasadena included review of Navy League-sponsored Sea Cadets by (I-r) Cdr. H. M. Steeves, Executive Officer of ONR; Lt. M. Peals, Sea Cadet Commander; Cdr. J. P. Johnson, Commanding Officer of Naval Reserve Training Center, and Capt. G. H. Lowe, Officer in Charge, NOTS Pasadena.

Success Story

The Navy's newest story was announced last De-cember — the development of the MK 46-0 Torpedo, the Na-vy's "first" solid rocket propellant, deep diving, high speed, anti-submarine weapon.

Navy-Industrial Partnership

Built around the Navy concept of industrial partnership, the U.S. Naval Ordnance Test Sta-tion, Pasadena, acted as technical director with Aerojet-General Corporation, Azusa, Calif. as al Corporation, Azusa, Calif. as the prime development contrac-tor. Also engaged in this pro-gram were two principal sub-contractors — Bendix Corpora-tion, North Hollywood, Calif., working on the guidance and control system, and Clevite Cor-poration, Cleveland, Ohio, working on the engine.

This military-civilian-contrac-tor relationship assures that tor relationsing assures that weapons get into the Fleet in the shortest time possible from conception of idea. The Bureau of Naval Weapons lauded the Navy - Industrial team who worked diligently on this project for search years to perfect. ect for several years to perfect the system and furnish this country with another powerful de-terrent to enemy submarines.

Four Delivery Modes

The MK 46-0 may be launched from a torpedo tube on a surface craft, from ASROC (antisubmarine rocket), from helicopters, or fixed wing aircraft. Up-on water entry, the torpedo proon water entry, the torpedo pro-pulsion system is activated within one-half second by means of a sea water battery and the torpedo commences a power dive to a preset initial search

The torpedo begins its search for the target following a pro-grammed search pattern, either in an active (pinging) snake-like track or passive (listening) cir-cle search mode. Upon locating the target, the torpedo com-mences the pursuit and attack program until it closes with and

Navy's Newest Another First in ASW



A DRONE HELICOPTER carries the MK 46-0 during test operation off Long Beach. The new weapon is capable of hunting, overtaking and killing today's modern conventional and nuclear submarines. NOTS Pasadena was program's technical development director.

destroys the target. If the target should be lost during purswit, the torpedo commences a search program to relocate the target. The attack or search continues until the target is destroyed.

completed an extensive fleet evaluation conducted by the Navy in the Caribbean. A contract for nearly \$40 million was issued recently by the Navy to Aerojet-General Corporation for the production of this advanced weapon

Complement

Approximately 870 employees form the Pasadena employment roll of which half are in the Underwater Ordnance Depart.

ment. Pasadena employees inment. Pasadena employees in clude 228 engineers, mathema-ticians, and scientists (153 en-gineers, 33 mathematicians and 42 scientists).

There are 150 military per-sonnel stationed at NOTS, Pasa-dena, the majority at the NOTS Long Beach facility and at San Clemente Island ranges.



PORPOISE STUDY - In March this year, NOTS gained recognition through a televis-ion premiere of "The Dolphins That Joined The Navy," a documentary film produced by

the station. Tom Lang (shown above), Head of the Hydrodynamics Group at Pasadena, conducted porpoise studies in the areas of hydrodynamics

YOUR HOSTS WELCOME YOU



CAPT. G. H. LOWE Officer in Charge

Ordnance Test Station's Pasadena Laboratory. Our mission is to conduct a

We take great pride in welcoming you to the U.S. Naval

program of research, analysis, development and test of underweapons and weapons systems

As you tour the various laboratories, and view the weapons exhibits throughout the area. our personnel will tell you more about the work of NOTS Pasadena - work demonstrating our theme - Underwater Ordnance for Defense.

NOTS takes great pride in its eople. Here is employed a civilian-military partnership - a

partnership of people trained in the physical sciences and people trained in the military sci-ences — making it possible for NOTS to keep its weapons development work practical and giv-ing you the most for your tax

Military personnel provide operational know-how and bring to the attention of the Station the needs of the Fleet, Military personnel also aid in getting new weapons accepted by and introduced into the Fleet. The civilian-military team is concerned not only with immediate weapon requirements, but also with research on weapon systems that will be required many years from now

The NOTS approach consists basically of being geared to carry on the entire spectrum of weapons development. With the ultimate objective of filling the needs of the Fleet, the militarycivilian team has the ability to conceive the ideas for a new weapon, create the design, demonstrate its feasibility for Fleet use, develop the weapon, and carry it through the evaluation.

We hope that your visit is pleasant and informative. Remember, this is your Navy. The work done here by military per-sonnel, civilian scientists, engineers, and technicians is for you, the citizens of our country. We must continue jointly to maintain "Power for Peace.



D. J. WILCOX, Head, Underwater Ordnance; Asst. Tech. Director for Dev. (Wpns. Sys-

Exhibits, Movies To Be Viewed

In observance of Armed For-ces Day, the U.S. Naval Ord-Test Station's Pasadena Laboratory opens its gates for the second consecutive year to

to view exhibits and movies depicting the vital work being done here for our nation's defense Some of the weapons now in

the fleet that will be on display include Polaris, ASROC (Anti-Submarine Rocket), SUBROC (Submarine Rocket), and torpedoes MK 44 and MK 46.

Other exhibits will include a Drone Anti-Submarine Helicop-(DASH) deep sea diving ter equipment used by Navy Div-ers, tracking cameras used on the test ranges and training weapons.

Underwater sounds, such as those of a porpoise, will be featured

There will be fours through a Computer C e n t e r, Simulation Laboratory, Environmental Lab-oratory and Hydroballistic Laboratory, plus many other areas of interest including a Laser Display.

Plan to arrive at the Porpoise Movie (item 12 on the program) a little early so you may view the lovely paintings exhibited in the room. Elmo Gillett a NOTS employee, and his wife, Arleen, are the artists. Both are

accomplished painters.
In addition to "short order" service in the station Coffee Port, a refreshment stand is located in front of the Coffee Port and another on the west wall of Bldg. 3.

forces as long as may be neces-

Full public support allowed the creation of these forces. Continued public support, based on awareness and determination, will ensure that we have them in the future. Armed Forces Day is set aside to give American citizens a close look at the preparedness they support.

-Robert S. McNamara Secretary of Defense

NOTS Pasadena

NOTS Pasadena was organ-ized in 1945. Its personnel came from the wartime CalTech groups who had worked on torpedo and rocket projects sponsored by the Office of Scientific Research and Development. The Navy took over the OSRD activi-

the various laboratories and test facilities in Pasadena and at Morris Dam became the Pasa-dena Annex of the new Naval Ordnance Test Station in the Mojave Desert.

The Pasadena Annex is head-ed by Captain G. H. Lowe as Officer in Charge and Douglas J. Wilcox as Assistant Technical Director for Development. D. J. Wilcox also heads the Underwater Ordnance Department, the only department of NOTS which is located entirely at Pasadena.

At the Foothill plant are unique test facilities. One of these is the hydrodynamic simulator for testing ASW missiles, torpedoes, and torpedo components under simulated hydrodynamie and acoustic conditions prevailing in the actual environ-ment. Analysis of this information saves thousands of dollars involved in actual sea runs.

Pasadena encompasses a wide area of unique research and de-velopment activities - ranging from the Foothill laboratory Morris Dam in the San Gabriel Canyon and research development test ranges at Seal Beach, Long Beach, and 60 miles off the Southern California Coast to San Clemente Island.

Morris Dam

The Morris Dam facilitity consists of the Propulsion Laboratory and the Ballistic Range. The Propulsion Lab is used in the fundamental studies, applied research, development, and test-ing of hydropropulsion systems and their components. Facilities at the Rallistic Range are used in the acquisition and study of water entry data, underwater tra-jectory characteristics and structural damage information on underwater and air-to-water projectiles.

Each test area has available adequate instrumentation capabilities to allow the acquisition



THE MIGHTY ASROC (Anti-Submarine Rocket) marks the Foothill entrance to the U.S.

Naval Ordnance Test Station at Pasadena. The ASROC missile was developed by NOTS.

Introducing Your Guides

In addition to station civilian and military personnel to In addition to station civilian and military personnel to guide and answer questions, there is a contingent of Navy League-sponsored Sea Cadets ready to assist you. These young men are members of a youth training program which has as its primary purpose the providing of "an opportunity for American youth to learn the Naval virtues of personal neatness, loyaity, obedience, courtesy, punctuality, dependability and a sense of responsibility and thoughtfulness for one's shipmates, thereby developing character, self discipline and an appreciation of our American heritage." The Pasadena Council of the Navy League inaugurated one of the early units of the United tion of our American heritage." The Pasadena Council of the Navy League inaugurated one of the early units of the United States Sea Cadet Corps in 1959.

with a high degree of reliability.

Sea Ranges

The primary purpose of the Long Beach Sea Range is the development testing and evaluation of underwater ordnance and ASW Systems. In addition, underwater acoustic studies are conducted and underwater detection methods and equipment are tested and evaluated. Explosive ordnance shipment facil-

of a maximum amount of data ities are utilized at the Seal Beach location.

San Clemente Island

NOTS maintains sea ranges at San Clemente Island for its work with anti - submarine weapons systems, torpedoes, and under-water rockets. Cameras and other instrumentation record the phases of missile launching and trajectories from aircraft, surface vessels, and a strategic shore location.

SecDef. Message

Never in our history has true military preparedness been more essential than it is today and for the foreseeable future - so long as the Communists continue to pursue their objectives through force and vi-

military True preparedness means the ability to respond promptly and appropriately to any form of aggression. It means being prepared to support other nations directly exposed to attack. It means maintaining powerful, balanced and ready forces of our own. It means making those sacrifices which are necessary-but only those which are necessary—to preserve the ability for flexible response. Today we have the military

forces required for appropriate response to any threat. And we have programs to maintain these

'Miss Navy'

OPEN HOUSE SCHEDULE OF EVENTS

- 1. First Aid Station
- 2. Polaris
- 3. ASROC
- 4. Refreshments
- 5. Practice and Training Wea-
- 6. Patent Exhibit
- 7. Gage and Standards Lab
- 8. Chemistry Lab
- 9. Hydrofoil Boat
- 10. Hydrostatic Tank
- 11. Laser Display

- 12. Porpoise Movie (upstairs, begins 10:45 and every 45 minutes thereafter)
 - 13. Environmental Lab
- 14. Displays: Weapons, Plas-tics, Structural Components, Metallurgy, Test Camera, Numerical Control
 - 15. Range Model
 - 16. Communications Center
- 17. Movie "Undersea Technology" (begins 10:30 and every 15 minutes thereafter)

FOOTHILL BLVD

MAIN ENTRANCE

18. Tracking Camera

- 19. Refreshments Snacks
- 20. Hydrodynamics Exhibit
- 21. Hydroballistics Lab
- 22. Computer Center
- 23. Simulation Lab
- 24. Underwater Exhibits: Divers, CURV, Torpedoes MK 44 and 46, MK 32 Launcher, Parachute Exhibit, DASH, SUBROC
- 26. Exhibits, Public Works Role in Research and Develop-
- 27. Fairchild Tracking Camera

FIRST AID

STATION

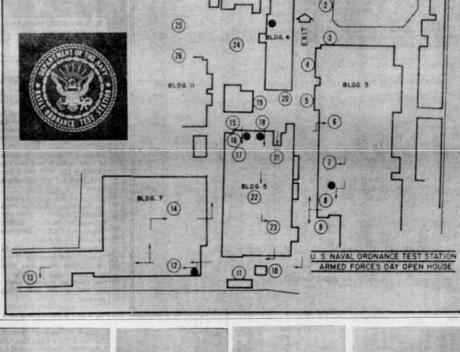


PENNY WARD

The lovely miss selected as "Miss Navy" is Penny Ward, 18 years old, a Pasadena High School Senior and an Adrian Model. In addition to being an student, Peggy finds time to be a Song Leader, and to

take part in many other extra curricular school activities. In her young modeling career, Penny has reigned as Girl of the Golden West trepresenting the Western Harness Racing Association — Santa Anita); and Queen for the 1965 Sports, Travel and Vacation Show. She was on the Farmer's Insurance was on the Farmer's insurance Co. Rose Parade float which honored Bob Hope and the Armed Forces; and most recent-ly, she has appeared in the Na-tional Mobile Ads for the Econ-omy Run.

Welcome, Penny, we are proud to have you aboard the USS NOTS.













SUBROC (Submarine Rocket) soars through the air from underwater launch at NOTS San Clemente Island Range.

Sea Pay Boost, Overtime Pay Eyed by Navy

Washington — In its attempt to sweeten shipboard life, the Navy is seriously considering in-

By JIM PARKER
(Navy Times)

Washington — In its attempt to sweeten shipboard life, the Navy is seriously considering increasing sea pay, establishing undersafted line billets.

As was revealed by Navy is elegated to the Navy League here, during which he also told the carriers, and assigning LDOS to unrestricted line billets.

This was revealed by Navy is lamburated to carrier — its second — when the fiscal 1967 budget is submitted early next year.

Insurants: Check for War Clause

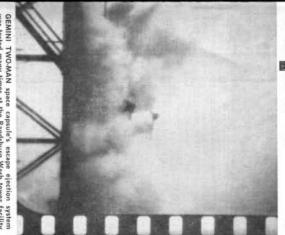
WASHINGTON - Watch out for those insurance policy war clauses, the Army is telling its men being assigned to Vietnam. It's good advice

for Sea Services too.

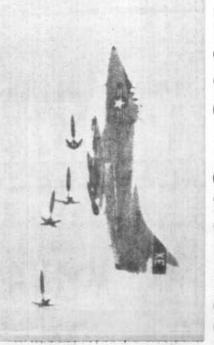
The Army said one of its soldiers was killed in Vietnam as a result of a hostile action and the company from which he bought the policy denied liability for the face amount because the document con-tained a clause limiting coverage to a refund of premiums paid if death results while engaged in military or naval service in time of war or as a consequence thereof."

—Navy Times

rojects P lines



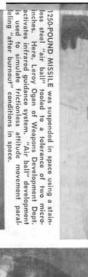
GEMINI TWO-MAN space capsule's escape ejection system was tested many times at the Randsburg Wash tower facility here. Dommies were catapulted by special rocket system, then automatically parachuted safety to earth. A perfect launch last March made it unnecessary for astronauts Gus Geisene and John W. Young to see the screen water.



SNAKEYE, which employs fins that "blossom out" to retard its trajectory spee d, is another NOTS-conceived, designed, developed and tested weapon. Fin device fits either 250 or 500 - pound bombs which can be dropped singly or in multiples.



TESTING 'REDEYE,' the world's smallest guided missile system which is if re dd from the shoulder, is another example of interservice cooperation here at China Lake. The joint A rm y.-M. at in e Corps project has been coordinated here by Major W. D. Huddleston, USMC. Many tests have been witnessed by members of the U.S. Congress, NATO representatives, and scores of newspaper, magazine and television reporters and cameramen.





OZONESONDE instrument developed here was successfully rocketed over 200,000 feet above ocean surface off the west coast of South America in recent project to map the distribution of stratospheric ozone in that area. Project manager Arlin Krueger headed team of six researchers.

'BLUEJACKET OF THE YEAR' for 1964, selected from China Lake's 1200 enlisted men, was William L. Jenkins, Hospitalman first class. Wife Mary gives him kiss of love and pride at banquet where he was selected from 12 "Bluejackets of the Month."

Navu Relief Prize



TO BE GIVEN AWAY-This 1965 Ford "Mustang" will be TO BE GIVEN AWAY—This 1965 Ford "Mustang" will be given to the holder of the lucky number at the conclusion of the Navy Relief Fund Drive. Drive gets underway today, Armed Forces Day, with car on display at NAF, VX-5, Mich Lab, Bennington Plaza, SNORT, and Schoeffel Field. Tickets may be purchased for \$1.00 from any Navy Relief Fund

April Set New Rain Record Here China Lake rainfall set a new

record for April of 1.26 inches, washing out the old record of 0.94 inches in 1956. Mean precip-Itation for April was 0.12 inches. It was colder and damper than

usual last month, too: Mean tem perature was 59 degrees, 4.4 under the norm of 63.4, and average humidity was 44 percent, 11 over the usual 33 percent.

The statistics were recorded by the Instrument operations Division, Atmospheric Studies

Dedication Of Petroglyphs Set For May 22nd

Dedication of the Station's Big and Little Petroglyph Canyons as Registered National His-toric Landmarks has been scheduled for Saturday, May 22, according to Station Command-er Capt. John I. Hardy. Original dedication ceremo-

Original dedication ceremo-nies which were slated to be held on April 17 were cancelled due to rains and snow on the NOTS north range.

The same guest list will re-main in effect for those who registered to attend the function by driving their own cars. The private car caravan will assem-ble on the Administration Building parking lot for departure to the dedication area at 12:30 p.m.

Navy bus transportation will be provided official guests at-tending the dedication.

CDR Riley To Relieve CDR Manherz Friday

Commander Jack M. Man-herz, USN, CO of Air Development Squadron Five, will be relieved in change-of-command eremonies next Friday, May 21.

at Hangar 1. CDR. Manherz, skipper of VX-5 since February, 1964, will read his orders assigning him as Strike Warfare Officer to Commander, Second Fleet, aboard the cruiser USS Newport News homeported at Norfolk, Va.

Last August he was selected for promotion to Captain. Relieving CDR Manherz at VX-5 will be Commander E. E. Riley, USN, new Executive Of-ficer of the squadron. Taking over the Exec duties will be CDR J. S. Clauzel. The change of command cere-

monies, starting at 10 a.m., will include an inspection and a demonstration by the squadron's eight-man precision drill team. The Marine Corps band from El Toro will provide appropriate

Early in July, Commander Don Commander Don Loranger is scheduled to relieve CDR. Riley as the squadron com-mander. The latter will return to the War College at Maxwell Air Force Base, Alabama.

CDR. Loranger is now at Offutt Air Force Base, Omaha, as a member of the CincPac team to the Joint Strategic Target Planning Staff.

Assuming duties as his Exec-utive Officer will be CDR. A. T. Anderson, currently serving at NAS, Miramar.

GENERAL MESS MENU

D-Cern drivides, tried fall, fried scallege, two occult crosserole, green beans, structure occult crosserole, green beans, structure occulturation, seedrood sacktuil rature, sendenth fall for No. A. triedle, lemma maringue pie, ktel cald drivid.

- Vegetüble maril loaf, O'Brien gottotos, orden gravy, horeum beste, fried hammy.

short, regor cookies, its cr SATURDAY, MAY 15

Cereni, fruit, juice, fried eggs, sousage links, wuffles, total, syrup. 1000 Adds Cream of potato soup, egg salad sandwiches, potato chips, adlade,

THURDAY, MAY 20

3- Recorded yed carles, francoince portotes, termin pracy, ulared cerestly, vera bount, solidate, chrosolore pudding, ris creem, iced and divide.

MONDAY, MAY 17

5- Cereal, host, tring bases, treem, iced and divide.

MONDAY, MAY 16

5- Cereal, host, tring bases, tring degree, bor claws.

Servey based cold divide.

Servey based checken, modified purioties, quality group, made truggles, continued to conditions, common divide group, made truggles, continued to conditions, common divide group, made truggles, conditions, common divide group, made truggles, continued divide conditions, common divide group, made truggles, continued group, made truggles, continued divide group, made truggles, continued groups, made truggles,

smickerdoodle.

Decrea of training acute, over neast bed, modeled politices, bytered news, sameleich for No. 4, which, checking sclains, ize cream, ised rails dirik.

S-Chili transfurters, french fried gestates, buttered societatis, core raille, similat, frookfurter rails, leed brownies, ice cream.

WEDNESDAY, MAY 19 B-Cerent, fruit, sociage links, friest eggs.

a-current. Thuit, sections links, friest eggs. hot canks, syme, forst, slawed doughness, but canks, syme, forst, slawed doughness, canks, control gene learn, solids, sandwich bur No. 6, blackberry ple, leet cold drink.

5-El Roncho stew, doubless puttinest, Brusals strowth, cedioped corn, solids, but biscoils, strowberry short coke, whitigade.

PROMOTIONAL **OPPORTUNITIES**

Writer-Editor (Typing), G5-5, Code 3016-Pasition is that of Willer-Editor (Typing) in the Infrared Countermoniums Brunch, Project Ct-Engineering Div., Test Decl., Provides staff withing and editing assistance to the scien-filic and technical parameter of the Branch and maintains contact with numerous eff-tration prefessional, industrial, und military groups associated with the program.

File applications for above with Jean lines, Bldg. 34, Rm. 34, Phone 71514. Mechanical Engineering Technician, GS-9 or GS-11, Code 4035—Assists in the distipm and avaluation of biological/chemical weapons

imponents.

File applications for observ with Lyn Stendrd, Bidgs 34, Rm. 28, Phone 72876.

Track Driver (Heavy), 12,91 to \$3.13 per
serv, Codo 3264-Chries straight-lieftine trucks
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ply. File applications for above with Pat Det-tiling, Bidg. 24, Rm. 28, Phone 72218.

Mail and File Supervisor, G5-005-5, PD 17244, Cade Salts—Incumbent is Asst. Head, Moll, Files & Records fronch, Administration Div., Command Admin. Dest. Incumbent is responsible for the direction of the process-ing and expeditions broading of incoming and cardoning efficion mail such as Breach Head sharing the Franch Read's deserve.

Hood she'ng the Bronch Hood's obsence.

Audio-Visual Production Specialist, 05
1871-11 or 12 (I vacancy), Cade 7522-Position is that of Hood, Presentations Development Broader, the Presentations Div., TD. In conduct's major duries and espansibilities are planning and development of presentations planning and development of presentations.

meous information assignments as require Editerial Clerk, QS-1087-5, Cade 7511 osition is located in Editorial Erench, P shing Dir., 11D. Incumbent performs on diting and proatheoding of technical a dministrative publications.

administrative publications.

Veverher Seminer, 61-840-3, Code 1753Position is located in Public Vourher Branch,
Centred Steff, Durier browler expansibility
for examination and computation of public
claims and vouchers, training assignments in
examining work of a higher level than that
which incumbant routinely performs and incidental typing tasks done in carjunction
with the battle examining.

File applications for above with Janet Thomes, Bldg 34, Rm. 26, Phone 71577. Deadline for explications is May 14. Secretary Typingl, G5-5, Code 336-Paul nin is Secretary to the Head and Associate Hood. Mechanical Engineering Division, Engineering Diocatment. Partners duties which ultravening Discontances. Partners duties which

and personal collers.

Class-Typin, G54. Cade 5541 — Provides tiefrical and typing support to senduction intensity, the support to senduction intensity, technologies, branch supervisors, etc. Performs a variety of cliented typing and any other tasks autigned by supervisory, process dithe moster; and with a minimum of roning, operotes IBM key punch machine, Printing Riscoviries, load and perform miner.

File applications for above with Lorette Hetherington, Bldg. 34, Rm. 34, Phane 71514

GEBA Assessment No. 95 Is Now Due

Members of the Government Employees Benefit Association and China Lake Mutual Aid Society are reminded that assess-ments No. 95 and No. 23 are now due

Assessments have been levied due to the death of Leo R. Bren-nan, 53, a Pasadena Public Works employee, who died in a Monrovia hospital May 11. Payments of \$1.20 may be

mailed to Joseph M. Becker, secretary-treasurer, 77-B Renshaw,

Blue Cross Ins. Agent Here Next Wednesday

Jacques Gillard, represen tative of the Blue Cross Insurance Co., will be at the Community Center next Wednesday from 9 a.m. to 4 p.m.

CHAPLAIN'S MESSAGE

Where Men Are Called



By CHAPLAIN MARK E FITE

Great men have spoken of our might in military weap Great men have spoken of our might in military weapons, but have said that these are effective only so long as the
persons who man them are competent and dependable. Thus
the need to build better men has always been of prime concern, and will continue to be so. In this cause, many have
given their best, and even their lives.

On Jan. 29, 1943, a small convoy of ships departed St.
Johns, Newfoundland. In it was the Army transport Dorchester, with 904 men aboard; 751 of these were troops bound
for Greenland as reinforcements. It was very cold and the Atlants was reach.

for Greenland as reinforcements. It was very cold and the At-lantic was rough.

On Feb. 2 the escort commander notified all ships of the presence of U-boats in the vicinity. At 3:55 a.m. on Feb. 3, the Dorchester was torpedoed in a vital spot, and the order to abandon ship was given five minutes later. The ship sank rapidly.

The power failure was so sudden that no distress signal could be given. Even the abandon ship signal was only partially completed because there was not enough steam to sound all blasts

Many men preferred to risk the possibility that the ship would float rather than jump into the 34-degree water on this dark night. Thus they went down with the ship; and a total of 605 men were lost.

It was not just a coincidence that four chaplains, two Protestants, a Roman Catholic, and a Jew were on board. It is authentically reported that these chaplains took off their own life jackets and gave them to men who were unable to get one, and with arms joined together, sank with the

In the eyes of God, the loss of any one person is no more tragic than the loss of any other. But this is symbolic of our nation's concern for using her potential to help build better men. In this concern, clergymen desire to be where men are called to give of their best.

It is a sign of good health when a nation of people will take seriously the words of the wise man, "Righteourness ex-alts a nation, but sin is a reproach to any people." (Proverbs



COMMUNITY HONORS WINSLOWS — Maturango Museum Board members, civic and community leaders turned out en masse last Sunday to honor Sylvia and Alvan (Slim) Win-slow at a reception hosted by Mrs. John I. Hardy. Sylvia was cited for her role as museum curator and "Slim" for his 10 years of work in the Engineering Dept. here. The Winslows will leave the area later this month.

The Rocketeer

Official Weekly Publication of the

U & Noval Ordnance Test Statle Chine Lake, California

Copt John I. Hardy, USN "J." Bibby Fublic Information Officer

Richard Grueneberg Editor Rudd Gatt John R. McCube

Special Assignments Frederick L. Richards

Staff Photographers

In Williams, PHI) Faul Seaton, AC2PH;

Inn's Smith, PHI) Seth Rossman, PHI, and

Rolph Robey, PHI (Pasadena). DEADLINES

Tues, 4:30 p.m.

The Socketeer receives Armed Forces Press ervice monerial. All one official U.S. Novy notes unless otherwise Identified. Printed weeks, with suprepriored funds in compli-ce with NovEata P.J.S. Revised July 1958. Hills or 50 King St., Birlic 00929. Phones-15ts. 71454. 72092.



Marring Worship-8-30 and 11 a.m. ndoy School 9:30 u.m., Chopel Annexe 1, 2, 3, 4 (Derms 5, 8, 7, 8) located op-posite Station Restourant

man Cathelle (All Faith Chapet)-Holy Mass-7, 9:30 a.m., and 5:30 p.m.

4 a.m. Monday through Friday, 8:36 a.m. Saturday

Contessions 8 to 8:25 a.m., e to 8:30 p.m. Sotorday, Thursday before First Friday. • to 5:30 p.m.

Sobboth School, 10 a.m. to ason, every first and third Saturday. Universal Fellowship (Chapel Ants.s. 85 King

Savings Bond Campaign Gets Under Way May 28

On Friday, May 28 NOTS will start its 1965 campaign to encourage employees to participate in purchase of United States Savings Bonds through payroll deduction

Savings Bonds through payroll of From the time of the origin of the program in 1941, Unit-ed States Savings Bonds have provided for the investor a means of savings safe and prof-itable. And secondly, the purch-ase of Savings Bonds, by spread-ing the actional debt among the ing the national debt among the investors, gives every man the opportunity to share in the ob-ligation of democratic govern-

Series "E" bonds are the type most often purchased due to the fact that their purchase is with-in the range of all incomes and they mature in only seven years and nine months. These bonds accrue an interest of 3% per cent compounded semi-anof face value. They can be converted to cash at any time in any bank. These bonds can be

bought in denominations of \$25, \$50, \$75, \$100 and up. Series "H" bonds are mostly purchased by those desiring sound investments with constant interest payments. They are bought at par face value (\$500, \$1,000, \$5,000 or \$10,000) and an interest check is received every six months at an average of 3 % per cent interest over a 10 year period. The beauty of Series 'H' Savings Bonds is their use in conjunction with Series "E" bonds, Income Tax savings and a constant interest income in later years can be gained by the exchange of Series "E" bonds for Series "H."

when you are contacted by someone in your depart-

and happy, worry free future, for as little as \$3.75 per pay pe-

COM

Calendar

TONIGHT ! ! Those Lary,

Hazy, Crazy, Days of Summer" with Dixieland on the lanzi. This

evening of pure enjoyment is being sponsored by our unat-tached stags and does and will star Ronnie Bartley and His Re-

vue and The Gas House Six. The dress will be casual and there

will be no extra charges. Not

only will we have that great. Dixieland sound but you will de-

light in the dancing of Maria Rome and the singing of Elaine Roberts. So we'll see you tonight

Las Vegas!

your way to a more secure

Ham Operators Worldwide Test Set for May 15

Washington (AFPS) — The 16th Annual Armed Forces Day communications tests for amateur radio operators throughout the world will be held tomor-row, May 15, the Department of Defense has announced.

The tests, held to encourage amateur radio activity, are a joint effort of the three Military Affiliate Radio System (MARS) chiefs for their respec-tive services. Active duty and guest operators at participating military stations handle program operations

Award Certificates

"Hams" everywhere are invited to take part. As in the past, certificates will be awarded to amateur for perfect copies of the continuous wave (CW) or radio amateur teletype (RATT) message from Secretary of De-fense Robert S. McNamara. QSL cards (recognition of correct message reception) will be awarded only to licensed "hams" who establish a two-way contact with a station.

CW transmissions will be in International Morse Code at 25 words per minute. RATT transmissions will be at 60 words per

The one-day event marks the only time of the year amateurs

tions. In a test of crossband op-

SHOWBOAT

a ruthless Bolkon dictoror when his con beautiful woman, some clusive photostate and mounting intrigue make this on adventure special. (Adults, Mature Youth.) Shorts: "West of Peacs" (7 Min.)

SATURDAY

Linie League Benefit "THE KID BROTHER"

-EVENING-

Little Leugue Benefit THE MARK OF ZORRO 8 p.m.

"FATHER GOOSE" (116 Min.) Cary Grant, Leslie Coron

(Camedy) Take an unitempt beachcomber, who loves boose. Add a pretty girl and seven younger girls whom he reso them all on a deserted south Pocific Island in WW II and you've got spice, c adventure. Don't miss. (Adults, Youth, Chil

TUESDAY, WEDNESDAY "THE OUTRAGE" (97 Min.)

low appointed of murder. Three softwares tion in the bureau hills. It's different, it's stock row dramo. (Adults, Motore Children.) Shorts: "Cut Above, Mouse Below" (7 Min.)

"Feghern Leghorn" (7 Min.) "OUICK BEFORE IT MELTS" (99 Min.) George Maharia, Anjamette Comer

Shart: "Fesple Are Surey" (7 Min.)

erations, military stations will transmit crossband on spot fre-quencies outside the amateur bands, and establish radio contact with amateurs in appropri-ate sections of amateur bands. The test will consist of a brief exchange of locations and signal reports. No traffic handling

will be permitted. Rules of Contest

Contestants should include their name, freuquency, time, and call sign (if any) on the paper with the message's text. The message should be copied as received, with no attempt made to correct possible trans-mission errors. Entries should be resulted to Accord for be mailed to Armed Forces Day Contest, Room 5B960, The Pentagon, Washington, D.C., post-marked not later than May 31.

A/C Work Begins At Michelson Lab

Work on the Michelson Lab oratory air conditioning project began May 10. The base of op-erations is located in the area between wings 3 and 4 which are fenced off.

Because of the potential hazard to Lab personnel, the dou-ble exit doors on the second floor between Wings 3 and 4 and the east gates to the parking lot will be secured to traffic except in case of emergency beginning May 17 and continu-ing through March 1966.

Community News

RED CROSS ANNUAL MEETING

The local Red Cross Branch will hold its annual meeting at 8 p.m. Wednesday, May 19, in the East Wing of the All at 8 p.m. Wednesday, May 19, in the East Wing of the All Faith Chapel, Two films will be shown at the meeting which is open to the public. They are: "Memory of Solsferino," the story of bow the Red Cross began, and a color film on "Deep Sea Fishing" which includes the catching of Montauk Blue Fish, Acapulco Sail Fish, and San Diego Albacore.

ACEY.DEUCEY CLUB DANCE FRIDAY, SATURDAY NITES "The Versatiles," a trio with "Red" Simpson on lead guitar, Johnny Barnett on rhythm guitar, and Frankie Lemon on drums, will play for the Acey-Deucey Club dance tonight and tomorrow night. The fun begins at 9 p.m. and lasts until 1 a.m. each night.

each night.

FRENCH CERCLE TO MEET

The CERCLE do HEET

The CERCLE de la LANGUE FRANCAISE will meet on
Thursday, May 20, at 8 p.m. in Room B of the Community
Center. The program for the evening will feature Madame
Ingrid Helberg, who will lecture on "Paul Claudel, the Greatest Dramatist of Our Times."

Madame Heiberg is the wife of the Norwegian Consul-General to Los Angeles. Anyone who wishes further information is asked to contact Doris Stirton at NOTS ext. 77524.

REQUEST PONY-COLT PLAYERS TO TURN IN EQUIPMENT

Last year's Pony-Colt League players are requested Last year's Pony-Coit League players are requested to turn in their uniforms and equipment to Bob Brown at 304-B Tyler, Ext. 77012. Uniforms and equipment must be reas-signed for the season. Registration is still open for boys 13-16 who wish to play, emphasized Bill Bessee, league presi-

MARGE McCOY NEW PRESIDENT OF 'SWEET ADELINES'

Marjory A. McCoy was installed recently as new president of the China Lake chapter of the Sweet Adlines by Vi Smythe, president of the Bakersfield chapter, in a ceremony at home of Mr. and Mrs Harry Willis here.



CITED BY BUWEPS-NOTS Pasadena's Jack H. Slaton is congratulated after being presented a BuWeps' Superior Civilian Service Award by RAdm. E. E. Fawkes, BuWeps' Asst. Chief for ROT&E. The award, signed by BuWeps' Chief, RAdm. A. M. Shinn, cited Slaton for his technical leadership in the development of an acoustic homing system for use with the Mark 46 torpedo. Presentation was made at the NOTS Advisory Board Juncheon last Friday.

on the lanai from 9 to 1, Happy Hour from 6 to 8 and dinner will be served from 6 to 9 in the dining room. And for all of you "Tailhookhave a great time in Next Saturday, the 22nd, is Italian Night at your Club! —Pat Shannon Navy Will Assist EM In No-Cost Duty Swaps

to put sailors in touch with others desiring a transfer, on the basis of geographical area and rating. Actual transfers are governed

ing to change billets to an opposite coast at no cost to the government may receive assistance from the Navy. The Navy program is designed

by Chapter 16, Enlisted Trans-fer Manual, Further information is contained in BUPERS Notice 1306, dated April 13, 1965. -

NOTS ADVISORY BOARD—Members attending annual spring meet here May 67 (seated, Ir) were Dr. C. C. Lauritsen, Dr. J. E. Henderson, visitor RAdm. E. E. Fawkes, BuWeps' Asst. Chief for RD&T; Dr. Wm. B. McLean, Station Technical Director; Capt. John I. Hardy, Station Commander; RAdm. F. S. Withington (Ret.), Dr. H. L. Anderson, H. G. Wilson, Assoc.

Technical Director. Standing (I-r) are Capt. Leon Grabowsky, Station Executive Officer; Adm. J. H. Sides (Ret.), R.Adm. Rawson Bennett (Ret.), R. L. Biggers, Dr. L. W. Alvarez, F. G. Jameson, E. H. Heinemann, Dr. W. A. Noyes Jr., Dr. J. H. Wakelin Jr. Highlight of Advisory meet was presentation of BuWeps' Civilian Service Award to Jack H. Slaton.