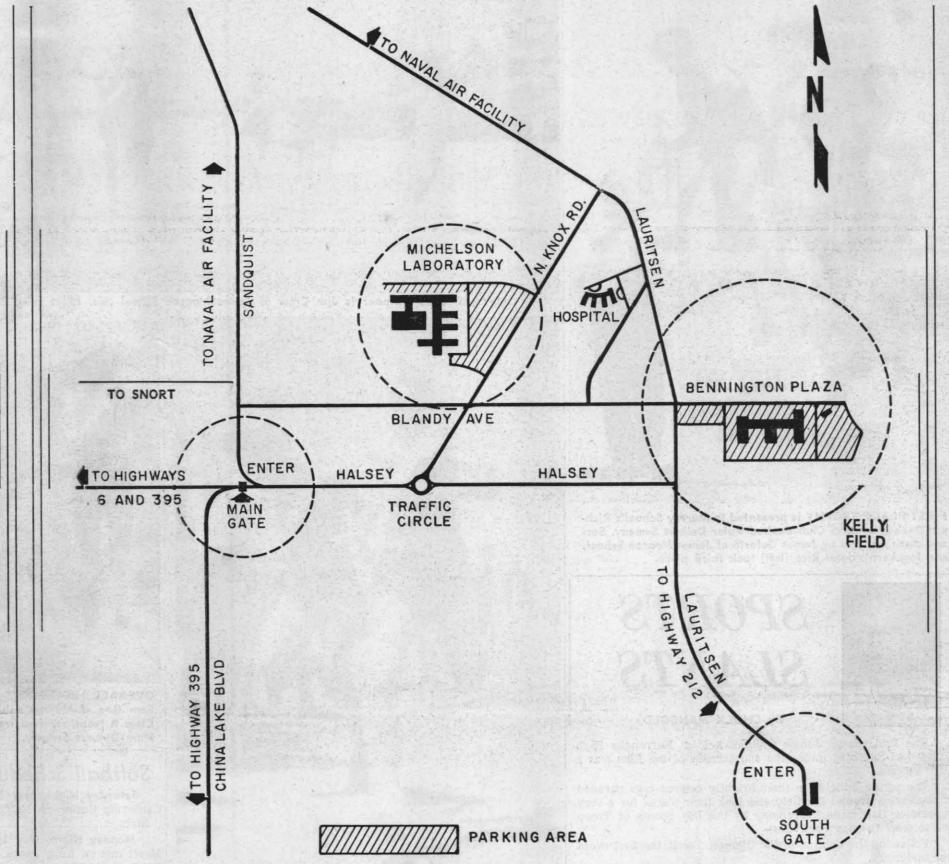
Your Guide to Armed Forces Day Events



Visitors and Station residents are urged to use the free shuttle bus service.

SCHEDULE OF ACTIVITIES

9:00 a.m. - 4:00 p.m. . Gates open to public

9:00 a.m. Static displays of aircraft and equipment on view (NAF). Armed Forces Day concert (NAF). 10:00 a.m. Parachute Jumping Demonstrations by China Lake "Skydivers" (NAF). 10:30 a.m. Drone Demonstrations, using the QF-9 10:45 a.m. Navy Aircraft to perform High-Speed 11:00 a.m. Firefighting and Helicopter Rescue Demonstration (NAF). 12:30 p.m. Naval Air Facility Closed to Public. 10:00 a.m. - 2:00 p.m. . Movies at Station Theater (Bennington 12:30 p.m. Selected Areas of Michelson Laboratory open to public with displays. SNORT area open to public with displays, track sleds and camera facilities. 1:00 p.m. SNORT movie every half hour until 3:30 2:30 p.m. SNORT Demonstration firing.

Station closed to public.

Famed Michelson **Laboratory Shows** Special Exhibits

nent center for weapons research and development, NOTS provides Armed Forces Day visitors with a special array of displays and exhibits at Michelson Laboratory.

They will be able to view limited areas of the huge laboratory, which will be open from 12:30 to 4 p.m.

"Twenty Years of Progress," a weapons display designed and constructed for the visit of the late President John F. Kennedy last June, may be seen with exhibits of LASER work conducted here.

IBM computers, Analog Computers, a spacemetals display, a closed-circuit television demonstration, a Sidewinder display, Data Readers, Meteorology display, Environmental Test Laboratory will be open for public viewing in addition to numerous other exhibits.

Museum Open

The Maturango Museum will be open tomorrow to greet visitors from 10 a.m. to 5 p.m. Cold p.m. Michelson Laboratory, SNORT area and drinks will be on sale for 10 cents each.

ARMED FORCES DAY BUS SCHEDULE

Station bus transportation has been provided between key areas on the Station during your visit. It is recommended that private cars be parked in assigned lots (see map), and busses utilized for transportation needs.

8:30 - 10:30 Small bus shuttle between Main Gate and Bennington Plaza via main entrance Michelson Laboratory both ways.

9:00 - 10:30 Six busses shuttle between Bennington Plaza and

10:30 - Noon Seven busses shuttle between Bennington Plaza and NAF via main entrance Michelson Laboratory

Noon-12:30 Four busses shuttle between Bennington Plaza and Snort via main entrance Michelson Labora-

12:30 - 4:00 Seven busses shuttle between Bennington Plaza and Snort via main entrance Michelson Labora-

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and by stopping to	July 2 Among Color

Open House at NOTS - Armed Forces Day

WELCOME ABOAR

Special Four-Page Supplement on **NOTS** Pasadena Armed Forces Day Pages 5 thru 8.

Navy Relief Fund Drive Under Way

The Navy Relief Society's annual call for contributions, dedicated to rendering aid in times of need to Navy and Marine Corps personnel, moves into its third week of action on Station

Cdr. Robert C. Fenning, Senior Chaplain (Code 111) is coordinator for this specific drive. Key representatives in each military command unit and civilian departments have been appointed.

Remember June 5 The current campaign will continue through June 6, with the preceding evening of June 5 being the "big one" here. At 4:30 p.m. on that Friday, a cart filled with scores of gifts donated by Ridgecrest merchants will be distributed to lucky ticket holders in front of the Commissary. Ticket donations are 50 cents each or three for one dollar.

The cartful of gifts will be on display tomorrow, Armed Forces Day, at the Naval Air Facility exhibit. During the following two weeks it will be taken on a tour of the Station. Included are radios, luggage, hams, gift certificates, etc.

The Society functions to aid Naval and Marine Corps personnel and their dependents, and the current drive is pointed primarily toward military personnel, but civilian friends of the Navy are encouraged to contribute toward its success.

During 1963 at China Lake 111 servicemen and wives were aided financially with funds from the Society. Grants included \$9,391.10 in loans, and \$1,359 in outright grants or conversions to gratuity due to a change in circumstances.

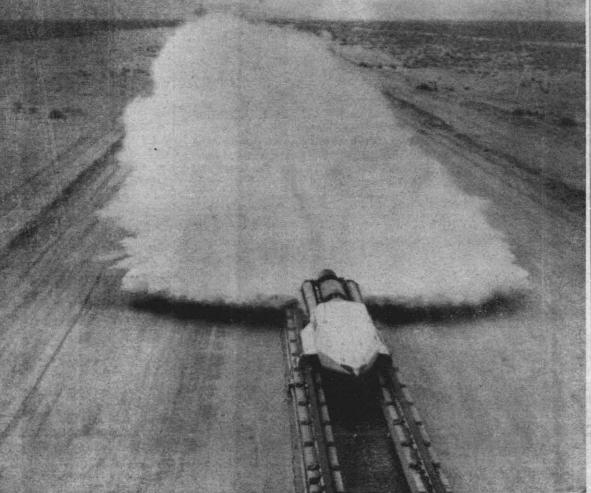
During 1963 the Society nationwide handled over 64,614 cases involving personal need by service families. Every Dollar to Relief

The Society's "overhead" is kept at a minimum by services of nearly 7000 volunteer wives of naval personnel. It is now sufficiently endowed that all staff employees are paid from income; hence, 100 percent of every dollar donated is used directly for relief purposes.

Funds collected here will be turned in to Chaplain Fenning's office adjacent to All Faith Chapel: A receipt will be provided for funds received.



Naval Ordnance Test Station, China Lake, California Fri., May 15, 1964



SNORT (Supersonic Naval Ordnance Research Track) demonstration firing will be a feature

of Armed Forces Day activities at NOTS. It's

Greetings From Your Hosts



WM. B. McLEAN Technical Director

Welcome to the U.S. Naval Ordnance Test Station! Your visit with us today and the interest you have shown in the work we do here is deeply gratifying.

Our major facilities have been opened for your inspection throughout the day. Events of special interest have been scheduled at the Naval Air Facility and on the Supersonic Naval Ordnance Research Track.

As your hosts and, on behalf of our Navy Community here at China Lake, we wish to thank you for coming. We trust that your visit is informative and enjoyable. CAPT. CHARLES BLENMAN JR. radio coverage will originate at



Station Commander

'Twenty Years of Progress' Program **Awaits Visitors**

China Lake joins U. S. Forces in the 15th annual observance of Armed Forces Day, opening ties for a day-long program of Open House activities.

With strong emphasis on the sciences involved in weapons research and development work, some 20 displays and exhibits will be on hand at Michelson Laboratory for public viewing.

'20 Years of Progress' A special display on LASER work conducted here, along with a "20 Years of Progress" exhibit that depicts weapons developed at China Lake, are included in the array of attractions.

Limited touring of Michelson Laboratory spaces is to be permitted starting at 12:30 p.m., and movies of the late President John F. Kennedy's visit to China Lake last June are included in the program.

mumme

'Assignment China Lake

"Assignment China Lake," an hour-long television news film broadcast earlier this year from Los Angeles, will be repeated over Bakersfield's Television Station KERO, Ch. 23, tomorrow at 4:00 p.m.

Static displays of aircraft and equipment used at the Naval Air Facility will be on public view throughout the morning.

The China Lake "Skydivers," a group of local parachute enthusiasts, will perform jumping demonstrations starting at 10 a.m. A jet drone demonstration is to follow and a high-speed flyover of Crusader, Phantom and Skyhawk aircraft will demonstrate near sonic speeds for

SNORT Firing nance Research Track area opens to the public at 12:30 p.m., with a live, demonstration firing scheduled for 2:30 p.m.

Meanwhile, the public is invited to inspect numerous test sleds used in work conducted at the SNORT area. A documentary film will be shown every half hour between 1 and 3:30

Radio listeners in the Indian Wells Valley, unable to attend tomorrow's Armed Forces Day program here at China Lake, will get a special, "live" broadcast from the scene of action.

Through the remote facilities of Radio Station KLOA, the

(Continued on Page 10)



in the technical or scientific

the influence this would have

Four students in the adminis-

trative area were sponsored last

year and seven are enrolled in

The Technician and Artisan

Committee early this year sanc-

Praise From Students

In the final analysis, the pro-

David Ross, 18, a senior at

"Assigned to work under the

ons Development Department,

on others at Burroughs."

Students, Sponsors Reap Benefits in On-the-Job Work Experience Program



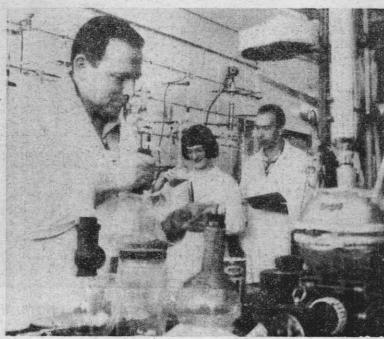
WORK EXPERIENCE CLASS from Burroughs High School, largest in program's seven year history, includes from left (seated) Dwight Morgan, Annette Haymaker, Dave Ross, Susan Bertine, Carol Heddell, Program Coordinator Ray E. Draper, Susan Campbell, Mary Anne Wentink, Danny Jockisch, Margaret Wall and Jackie Leininger. (Standing) Thomas Ward, Alfred Lester, Robert Johnson, Janie Evans, Mark Johnston and Linda Jean Kee. Not present for picture are Michael Murphy, Elizabeth Stevens, Thomas Falgatter and Peter Dietrickson, III.

Tickets On Sale For Barbershop **Harmony Show**

With proceeds earmarked for the Indian Wells Council for Retarded Children, tickets are now on sale for the joint China Lake Sweet Adelines and the Men's Barbershop Society's production "Belles and Beaux" to be held at the Station Theatre at 8 p.m. on May 23.

Theme will be show business at the turn of the Century. Playing the leads in the musical skits will be June and Dean Hewitt, Cecile Abbott and Dr. Rex Shacklett.

Tickets are available from Vursa Van Buskirk, FR 5-4802. Price is \$2 for adults and \$1 for students and servicemen.



SCIENCE STUDENT Annette Haymaker, 17, is working under direction of Dr. Wayne Carpenter, Organic Chemistry Branch, Research Department. Dr. Arnold Adicoff (foreground) is one of the scientists in the Branch.

Voted Mother of the Year 'Oklahoma'



LOUELLA FENNING, wife of the Station Chaplain, opens gift from All Faith Chapel's Protestant Congregation Women's Guild following her selection as "Mother of the Year" at the annual mothers-daughters banquet last Friday evening. Emma Lou McGuire, left, Guild president, made the pres-

To Be Staged By College

ersfield this summer, the Col-lege appropried this week ordinator for RESA, both praise Jack T. Leininger, 201 Shangrila, the program's existence. lege announced this week.

four performances, July 17, 18, school . . . at a time when ex- atmosphere and to help me 24 and 25 in the Multi-Use perience of this quality is so select a career." Room, and a new raised seating vitally important to young peo- Learning First Hand arrangement will be installed ple interested in science," com- Another girl student in the which will provide visibility mented Dr. Bennett, Head of program, Annettee Haymaker, from every seat.

Auditions for the production search Department. have been set for May 25 and This year's program has nine learning lab techniques first the Burroughs Campus at 8 p.m., tory areas. according to Director John

tions, he said. Any who cannot areas. make either audition may con- At his suggestion, made to The process of selecting stutact the College Office, the Station's Administrative Dedents for the program is based

ed in promotional and technical tion of an administrative work "While scholastic standings aspects of the production has experience area would have are important, the most desirbeen set for Friday, June 5 in "far reaching benefits." able quality in the student is

perience Program being conducted at NOTS. Each of the reports illustrates vivid dedication, not only of the scientists, administrators and coordinators who are devoting their time and effort to directing the paths of their future counterparts. but also the dedication of the students themselves who accept the challenge with eagerness and "sound, adult logic.")

A "Work Experience Program" designed to give students at Burroughs High Shcool experience in professional work they'll face in life ahead is concluding its seventh year here at the U.S.

Naval Ordnance Test Station. Originally established for sci- al advantages already realized ence students under the sponsorship of the Research Society areas, he pointed to the "visible of America, the program has short range rewards for serious been expanded to include administrative as well as vocational areas of work experience.

The Key: Extra Effort The key to the program's success is the enthusiasm and extra effort put forth by both the stu-

dents and sponsors, according

to one official. Of the current class, 10 girls tioned the establishment of a and 10 boys, all but one are vocational work experience area in their senior year at Bur- for the high schoolers, welcomroughs. The investment of 10 ing the opportunity to sponsor school hours per week (and this phase of the program. many put in extra time at Four student have subsequenthome, according to the program ly been assigned to shops on coordinator) gains the student a the Station. full semester credit.

"That's important," observed one student. "But, the most gram's ultimate value rests with important thing to me has been the students engaged in the the experience I have gained." program. How do they feel?

School Coordinator Ray E. Draper, a biology in- Burroughs and the son of Mr. structor at Burroughs and the and Mrs. J. W. Ross, 133 Church program's school coordinator, St., claims, "I found that there's outlined the program's object a lot more to motor repair work tives and the cooperation it has than I ever imagined. It has certainly shown me the practic-

Associated with the program al end of motor work." for three years, Draper cites David works under the sponthe most beneficial objective as sorship of Earl Shaw, Quarterthe realistic, practical experi- man Electrician and, like his ence that students get. fellow students in the vocational

"From that point on, the re- phase, are under the immediate wards are unlimited. Industry direction of supervisory personitself benefits. Call it a long ne range investment from which Another senior, Thomas Ward, dividends are assured eventual- 18, son of Dr. and Mrs. Newton E. Ward, 505 Essex Ave., inter-

"The existence of the pro- preted the program's values in gram is inspirational to other a more philosophical manner. students. It gives classroom work added meaning and sig- direction of Melvin Keith, Weapnificance, too," he adds.

From its point of establish- young Ward feels the program ment, the program has gained "teaches one about working at momentum and support from any job; how to get along with Station personnel. Scientists others, establish cooperation here are quick to recognize the and work effectively." potential it offers their profes- Jacklyn Leininger, 18, a second-year enrollee, is assigned

Drs. Harold E. Bennett, Presi- this year to the Systems Analydent of the local Research Soci- sis Branch, Weapons Develop-Rodgers and Hammerstein's ety of America unit, and Marment Department. by the Desert Division of Bak-

"I regret we didn't have such has realized: "To gain experi-The show will be staged for a program when I was in high ence of working in a scientific the Physical Optics Branch, Re- 18, emphasized the value of "working with my sponsor . . .

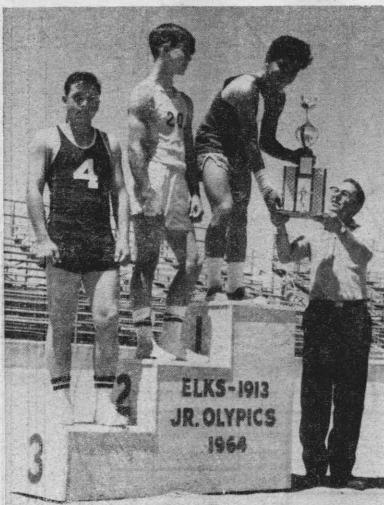
26 in the Multi-Use Room on students enrolled in the labora- hand." She emphasized the value represented and influence

Davis Sparks Expansion exerted through the profession-William E. Davis, Head, Plan- al-student relationship. ning Staff for Aviation Ord- "We're away from the theore-Those wishing to participate nance Department, and a tical, classroom atmosphere for in the show as actors, singers, staunch supporter of the pro- two hours a day," another studancers or instrumentalists gram, sparked its expansion into dent noted, summing up the should attend one of the audi- administrative and vocational positive effect this had on his attitude.

velopment Committee two years on attitude and demonstrated A meeting for those interest- ago, he reasoned that the addi- motivation, according to Draper.

the Multi-Use Room at 8 p.m. Citing the obvious profession- (Continued on Page 10)

Winners in the 1964 Junior Olympics



FIRST PLACE TROPHY is presented to Murray School's Richard DeLeon by Elks Club Exalted Ruler Delbert Sweany. Second place was won by James Goforth of James Monroe School, and Inyokern's John Rice (left) took third place.



Friday, May 15, 1964

SPORTS SLANTS

By CHUCK MANGOLD

The first annual Junior Olmpics held at Burroughs High School last Saturday under the sponsorship of the Elks was a

The young athletes in their brightly colored togs paraded in procession around the field and took their places for a very impressive flag raising ceremony by the Boy Scouts of Troop 291 to start the day's activities.

Following the lighting of the Olympic Torch, the first event was underway.

The events held and the first place winners are as follows: A 100 yd. dash, Jimmy Crow, Monroe; B 100 yd. dash, Richard DeLeon, Murray; A 200 yd. dash, Gary Travis, Murray; B 75 yd. dash, Sam Gee, Murray; C 75 yd. dash, Steve Parker, Monroe; A 440 yd., Ralph Holgate, Monroe; A 880 yd., Jay Leininger,

A broad jump, James Goforth, Monroe; B broad jump, Richard DeLeon, Murray; C broad jump, David Williams, Monroe; A hop-step-jump, Gary Travis, Murray; B hop-step-jump, Sam Gee, Murray; C hop-step-jump, Donald Lint, Monroe;

A shot put, Mike Sizemore, Murray; B shot put, Merle Hunsaker, Murray. Softball throw, Gary Debbs, Monroe.

A 440 yd. relay, James Goforth, Ralph Hogate, John Franich, Jimmy Crow, Monroe. B 440 yd. relay, Sam Gee, Ralph DeLeon, Floyd Salyer, Merle Hunsaker, Murray. C 440 yd. relay, Steve Millikan, L. Fagelson, M. Daniels, Tom Metcalf, Murray. A high jump, Steve Compton, Murray. B high jump, Pat

PERPETUAL TROPHY WON BY MURRAY SCHOOL

The perpetual trophy was won by Murray School with a score of 116 points, followed by Monroe with 72 points and Inyokern with 10 points. High point athlete award wound up in a tie between Sam Gee and Richard DeLeon. The perpetual trophy was accepted by team captain DeLeon.

Being an annual youth day event, plans have been started for a bigger and better Junior Olympics for 1965 which will include a group of pee-wee events and a contest between bands

Carl Bowser, Jack McGinnis, Doug Brewer and Bill Johnson, physical education instructors, are to be congratulated for a job well done.

NOTS ALL-STARS LINEUP VS. CALIFORNIA CUTIES

NOTS All-Stars manager Pete Zamarron has named the starting batting lineup against the California Cuties for tomorrow night. Leadoff man will be Gallien, of, followed by Siebold, of, Clayton, of, Crager, c, Thompson, p, McLain, 2b, Palmer, ss, LeBlance, 1b, Harley, ss, Carson, u, Ferguson, u.

Cuties lineup is Scraggie Maggie, c, Liza Jane, p, Dinah Sore, 1b, Hefty Helen, 2b, Viola Lynn, ss, Fifi the Flirt, of, Main Street Sally, of, Beulah, 3b, Leaping Lena, of, Skinny Minnie, u, Dumpy Dora, u.



100-YARD DASH winner is Jim Crow of James Monroe School (No. 12 at left).



BREAKING THE TAPE in the 880-yard Class A run is Jay Leininger of Murray Shcool. Right behind him is Gary Bes-



OVERALL HIGH POINT man, Sam Gee of Murray School's Class B team, receives trophy from Delbert Sweany.

Softball Schedule

Saturday Night, May 16 California Cuties vs. NOTS All-

Monday Night, May 18 Merchants vs. Kunz Photo....6:30 VX-5 vs. NOTS

Tuesday Night, May 19 NAF vs. Public Works6:30 VX-5 vs. Kunz Photo8:30

Wednesday Night, May 20 NAF vs. Merchants . NOTS vs. Public Works8:30

Here Armed Forces Day



CALIFORNIA CUTIES softball team will take on the NOTS All-Stars at Schoeffel Field tomorrow night at 8. Admission is free. Pony-

Colt League will operate concession stand. Cuties will also put on their comedy act at the Acey-Deucey Club from 10 to 11 p.m.

Summer Festival Party Planned by

NAF Pool Passes

tween 9 to 11 a.m. and 1 to 3

p.m., Tuesday, May 19, in the

lobby of the Central Navy Bar-

Little Theatre Group

The China Lake Little Theatre

will present a one act play

"Phoenix Revisited" and the

and 22 at Burroughs High

School, 8:15, in the Multi-pur-

pose room. \$1.00 donation for

(Continued from Page 1)

Ray R. Laidler and John Mur-

Spectators are invited to see

racks, Bldg. 880.

STATION

CHAPLAIN'S MESSAGE



History Of Navy Chaplains

By CHAPLAIN MARK E. FITE

On Oct. 13, 1775 the Continental Congress authorized the building of two swift sailing ships. These were patterned somewhat after the British system, and due consideration was given to Divine Services and the place of chaplains on board. The second article of the Navy Regulations of Nov. 28, 1775 states:

"The commanders of ships of the thirteen United States Colonies, are to take care that divine service be performed twice a day on board, and a sermon preached on Sundays, unless bad weather or other extraordinary accidents prevent."

The records of John Paul Jones indicate that the type of clergyman he sought for a chaplain was to be one of "reading and of letters," one who would have "sanctity of manners, of happy natural principles, one who would diffuse unanimity and cheerfulness through the ship."

Thus a standard was set for the need and qualification for Navy Chaplains.

The first commissioned Navy Chaplain was Benjamin Balch, a Harvard graduate and Congregational minister. He reported on board ship in October 1778.

The history of the Navy and Marine Corps is one of fascination. In like manner the history of the clergymen who served as Navy Chaplains, their efforts in the improvement of physical environment of the Navy, as well as the intellectual, spiritual and moral condition of her personnel, is one that incites pride in those of us who have this privilege to serve as Navy Chaplains.

Many things can be said regarding the work of Navy Chaplains throughout the years. Since chaplains had long been identified with education, it was natural that one be placed in charge of a school for Midshipmen. This school in 1821 was the forerunner of the Naval Academy at Annapolis in 1845.

Such other things regarding use of coffee and cat-o-ninetails, etc., were of concern to the chaplains. It is therefore a matter of record that chaplains, as with all good clergymen,

3rd showing: 12:15 p.m. 4th show: 1:30 p.m.

BENEFIT BALLET were interested in the welfare of the total man.

In these days when a great deal is heard concerning the moral justification for men in the Armed Forces, it is well to read what is written in the Bible in Romans 13. It does not mean that we are to endorse all authority without question; but rather to respect, support and uphold all authority given to men

Men may misinterpret and thus misuse this authority, but to fail to take any action to salvage good, maintain and build it up, is as foolish as to throw out the baby with the bath.

The reason for chaplains in the Armed Forces is because men and their families from our churches are serving therein. We count our ministry not unlike that in principle of any other clergyman of our Faith; but in this regard we are representatives of our churches in this missionary and pastoral ministry. We serve with a sense of distinct pride and interest in those who

Work Experience Program

velop knowledge," he comment- Kearsarge, expresses a flexible formance. Caution! . . . This contains a

Ward, Leininger, and Haymak- Susan has a sound outlook to- TUESDAY-WEDNESDAY ter, Danny Jockisch and Peter past. Dietrickson, III.

Beyond the academic area, sirable. The heavy emphasis however, Draper boasts of the placed on the need for sciences travelogue to Glacier National "Wholesome, quality to their alone by some educators is mis- Park, and a color movie, "Four

Susan Campbell, 18, a senior (To Be Continued Next Week) Intire.

ambition toward the future: like to put a couple of years into

we face is always present. It who pleads on TV to save him, and of the local sheriff who hunts him down. (Adults, Selected from a student body just changes disguises," she Youth and Children

in the arts and sciences is de-

PROMOTIONAL

advertised here does not preclude the use other means to fill these vacancies.

Electronics Mechanic, Code 5516, \$3.30 t \$3.58 p/hr.—Operates waves analizer equipment in analysis of random processes ap

Tests and calibrates inertial components such the Eastern County Council, usual costume. There'll be

"CHARADE" (114 Min.)

(Comedy-Mystery in Color)-Suspense,

ARMED FORCES DAY SHOW SCHEDULE "Expanding Frontiers in Ordnance"
"The Presidential Visit"
"Notty, the Porpaise"
"Zuni Missile"
st showing: 9:45 a.m. 2nd showing: 11 a.m.

"SWORDSMAN OF SIENA" (97 Min.) wart Granger, Christine Kaufman

BENEFIT BALLET

"JUDGMENT AT NUREMBERG" (186 Min.)
Spencer Tracy, Burt Lancaster, Marlene

MONDAY MAY 18 "JUDGMENT AT NUREMBERG" (186 Min.) Spencer Tracy, Burt Lancaster, Marlene

MAY 19-20 "MAN'S FAVORITE SPORT" (120 Min.)

(Comedy in Color)-Expert fishing tack salesman is sent to a tournament with orde to win, but he's never caught a fish, th

"A TIGER WALKS" (91 Min.) Brian Keith, Vera Miles Thurs., 7 p.m.; Fri., 6 & 8:15 p.m. "The challenge for survival on escaped circus tiger, of the little gir

Shorts: "Truant Officer Donald" (7 Min.)

"Citadel in the West" (10 Min.)

Photo Society Meet Russ Palmer's color slide 4 to 5:30 p.m Seasons in Austria," will be OTS Hebrew Services (East Wing All Faith One student said, "I think a shown at the next meeting of p.m., at the Photo Hut, 361 Mc-

Community News

China Lake PTA To Meet Thursday

Child Care Center The China Lake Elementary PTA will hold its final regular The Navy Exchange Child monthly meeting on Thursday, Care Center is having a gala May 21 at Murray Auditorium Summer Festival Party on June with a family style pot-luck sup- 17. Children will be in "hard times" costumes, and prizes will per beginning at 5:45 p.m.

Hardin Lineback, president of be awarded for the most un-File application for above with Dora Child-will install the new officers for games, balloons, refreshments. the 1964-65 school year with Gaily garbed clowns will enter-Mrs. Sheldon Elliott, Jr. as presi- tain the tots. dent, Mrs. Allan Woodman, vice- Reservations must be confirmpresident, Mrs. William Debejar, ed not later than May 29. Phone

Mrs. Robbin Fuller, program reports that as of June 6 the Guentanamo Boy, Cuba-Position Classification Specialist, GS-221-12; Planner and Estichairman, announces that Henchairman, announces that Hench ning Roth, foreigh exchange trons during the usual hours of and show slides of his home

> will serve as school vice-presidents for the coming year. Mrs. Available Tuesday Beatty Hilman, Desert Park; All First Class Petty Officers Mrs. Dougal Boyd, Groves; Mrs. Russell Bjorklund, Murray; Mrs. dependent's NAF Swim Pool Charles Dye, Richmond, and and Recreation Area passes be-Mrs. Richard Seeley, Vieweg.

Dr. A. V. Austin, Director of A representative from NAF's The meeting, beginning at 11:30, will be held in the Execu-

Dr. Austin's talk, "Recruit- Play Slated May 21, 22 ment and Retention of Superior Personnel in the Federal Service," will deal primarily with matters relating to scientific and engineering personnel. Fol- of many and varied acts by the lowing the luncheon he will Little Theatre actors, May 21

French Cercle Meet Slated for Thursday

The "Cercle de Langue Francaise" will meet Thursday, April 21, at 7 p.m. for dinner in the Welcome Abourd.

Two films, "Picture of France" (Portrait de la France) in color the Naval Air Facility, starting with sound and "In full Sky" at 9:30 a.m. (En plein Ciel), a tale from the famous French Aviator - poet ray, the KLOA team that cover-Saint-Exupery, will be shown. ed the visit of President Ken-

Make reservations before May nedy here last June, will again 19 with Marcelle Engel, 703-A be providing local color and nar-

Concert Association Meets Tuesday Night

meet Tuesday at 7:30 p.m. in Refreshment stands, sponsorthe East Wing of the All Faith ed by local civic organizations, will be available as in years past.

but important," states president closed at 4: p.m., ending the Kenneth W. Heyhoe. Open House program.

The Rocketeer

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

> "J." Bibby Jack G. Broward Richard Grueneberg

Budd Gott Frederick L. Richards

The Rocketeer receives Armed Forces Press Service material. All are official U.S. Navy photos unless otherwise identified. Printed Office at 50 King St., Bldg. 00929. Phones-71354, 71655, 72082.

Scheduled Feature

Friday, May 15, 1964



NAF-VX5 PARACHUTIST makes like a bird a moment after jumping from plane during exercise over China Lake. The chutists are scheduled to jump tomorrow at 10 a.m. as part of the Armed Forces Day activities on the Station.

Advisory Board to Meet Here Monday, Tuesday

Eleven members of the 13-man NOTS Advisory Board, each will be at the Community Cen- Goldie D. Greer (NC), Lt. Alma one a recognized expert in his respective field of science, industry, ter on Wednesday, May 20, from and education, are scheduled to convene here next Monday and 9 a.m. to 1 p.m. and from 2 to Dawes (NC).

Capt. Charles Blenman Jr., ComNots, and Dr. Wm. B. Mc-Lean, Technical Director, will host the group at the conference, the first of the Advisory Board

Board members scheduled to attend the two-day meet are: Dr. Herbert L. Anderson, director of the Fermi Institute, University of Chicago; RAdm. Rawson Bennett, USN (Ret.), Sangamo Electric Co., Washington, D.C.; Robert L. Biggers, management consultant, Bloomfield Hills, Mich.; Henry Dreyfuss, South Pasadena: E. H. Heinemann, vice president of engineering, General Dynamics Corp., New York City.

Frank Gard Jameson, Ryan Aeronautical Co., San Diego; Dr. C. C. Lauritsen, professor emeritus, California Institute of Technology; Dr. W. Albert Noyes Jr., University of Texas; Dr. Ithiel de Sola Pool, Massachuttes Institute of Technology; Adm. A. M. Pride, USN (Ret.), Arlington, Va.; and RAdm. F. S. Withington, USN (Ret.), Washington, D.C.

Unable to attend are board members RAdm. L. D. Coates, USN, Chief of Naval Research, because of previous committments, and Dr. F. N. Spiess, San Diego, who is in Europe.

June 1 Deadline For Engineering **Equivalency Test**

The engineering equivalency test, a written examination which has been administered by the U. S. Civil Service Commission for individuals seeking professional status who do not possess formal educational qualifications, will not be given after June 30, 1964 according to an announcement received this week from the Executive Secretary of the Board of Civil Service Examiners, Pasadena.

The last day for filing to take the test will be June 1, 1964.

After June 30, professional status, via a written test, may be attained only by presenting evidence of having successfully passed the Engineer-in-Training examination which is administered by the Boards of Engineering Examiners in the several

The Pasadena Board of Examiners has recently published a Supplemental Announcement, SF-14-1(64), which details qualification requirements for grades GS-9 through GS-15 for degreed and non-degreed scientists and engineers. Copies of this pamphlet are available in the Personnel Department.

Paul Greedy Named **Alternate for Merchant** Marine Academy Paul V. Greedy, 17, son of

Mr. and Mrs. Frank H. Greedy of 109-B Hancock, China Lake, has been designated by Congressman Harlan Hagen as a qualified alternate in competitive academic examinations for admission to the Merchant Marine Academy at Kings Point,

Greedy, a Burroughs High Council and Classics Club, will be eligible for admission in the event of a withdrawal or disqualification of a sufficient number of principal candidates.

Blue Cross Rep. To Be Here May 20

The Blue Cross insurance representative from Bakersfield 4 p.m.

RIBBON CUTTING - Capt. Jack Hough, NAF's CO, wields

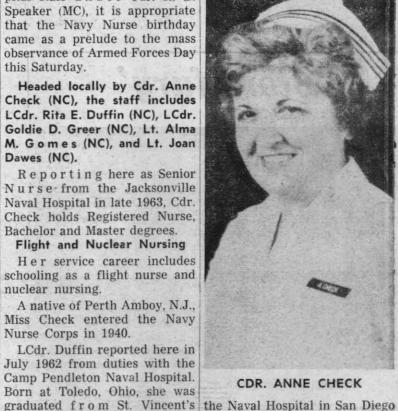
scissors as Albert A. Breitkopf, prospective club manager,

and Lt.(jg) W. F. Elrod, NOTS Enlisted Personnel Division's

XO, hold ribbon at reopening of Acey-Deucey Club Friday

evening. California Cuties bring their comedy act to the

Club tomorrow night from 10 to 11 p.m.



LCdr Greer was decorated for gained American citizenship in her Korean service, while serv- 1954 and entered the Navy that

R. W. Bjorklund, Head, Cen-

Navy Nurses Here Join In Corps' 56th Anniversary



NAVY NURSES flash birthday smiles on 56th anniversary of Navy Nurse Corps. They are, from left, Lt. Alma M. Gomes, Lt. Joan Dawes, LCdr. Rita E. Duffin and LCdr. Goldie D.

China Lake's small staff of Navy Nurses joined in a worldwide observance Wednesday of the Nurse Corps' 56th anniversary, senior, member of the Student a span of time that includes distinguished service in war and peace

Attached to the Station Hospital staff under Cdr. R. B. Speaker (MC), it is appropriate that the Navy Nurse birthday came as a prelude to the mass observance of Armed Forces Day

Headed locally by Cdr. Anne Check (NC), the staff includes LCdr. Rita E. Duffin (NC), LCdr. M. Gomes (NC), and Lt. Joan

this Saturday.

Reporting here as Senior Nurse from the Jacksonville Naval Hospital in late 1963, Cdr. Check holds Registered Nurse, Bachelor and Master degrees. Flight and Nuclear Nursing

Her service career includes schooling as a flight nurse and nuclear nursing. A native of Perth Amboy, N.J.,

Miss Check entered the Navy Nurse Corps in 1940.

LCdr. Duffin reported here in July 1962 from duties with the Camp Pendleton Naval Hospital. Born at Toledo, Ohio, she was School of Nursing and entered in April 1964. the Navy in 1945.

ing in the hospital ship, USS year. Repose, off the Inchon beach- Lt. Dawes also reported from head during the invasion.

in the campaign. A native of Castlewood, Va., cludes a tour of island of Taiwan. Miss Greer considers Farming-

ton, Mich., her hometown. She reported to NOTS for duty from the Naval Hospital, Camp Lejeune, N. C., early this year. From Naval Hospital

Born in Eritisa Guiana, she

the San Diego Naval Hospital She was awarded two cam- early this year. A native of paign stars for her participation New York, she entered the Navy in 1958. Her service life includes a tour of duty on the

Bjorklund NLO

tral Staff, will be the NLO in Washington, D. C., beginning Monday, May 18, and continu-One of China Lake's newest ing through June 1. He relieves additions to the nursing staff, A. E. Harris who returns to Lt. Gomes reported here from Code 5505 as consultant.

would discharge their duty by ultimate Divine Authority.

(Continued from Page 2) and the daughter of Mr. and the willingness to learn and de- Mrs. James J. Campbell, 600B Schell received Academy award for

Selection of students is con- "I'd like to teach or work for ducted within the framework of the government in the Central Burroughs High School authori- Intelligence Agency. I'd also In addition to students Ross, the Peace Corps if possible." (Adult)

er, this year's Program has en- ward the demands in life ahead rolled Susan Bertine, Susan for her generation, placing the Campbell, Janie Evans, Caroll greatest ingredient to profession-Heddell, Robert Johnson, Mark al success on a college level Johnston, Linda Jean Kee, Al- education. fred Lester, Jr., Dwight Morgan, Commenting on today's gen-Michael Murphy, Elizabeth eration of teen-agers, Susan Ber- and Youth) THURSDAY-FRIDAY Stevens, Margaret Wall, Mary tine, 18, also a senior, thinks it Anne Wentink, Thomas Fallgat- is the same as others in the

"Sound, Adult Logic" of some 1300 at Burroughs, the theorizes. WEP enrollees are, for the On education, the students inmost part, "above average" stu- terviewed felt that a balance

thinking," which he character- leading, they felt. izes as "sound, adult logic." This logic is reflected in the liberal arts education is the the China Lake Photographic student's views on topics of cur- foundation for later profession- Society, Wednesday, May 20, 8 al development,"

OPPORTUNITIES

ment. Trouble shoots equipment and

NAVY OVERSEAS VACANCIES Mechanical Engineer, G5-11, Philippines; Liquid Fuels Distribution System Operator, Guam; Chief Quarterman Machinist (Marine), Subic Boy, Philippines. Open until filled." president, Mrs. William Debejar, ed not later than May 29. P secretary, and Glynn Blanton, the Center at Ext. 723723. ployment Office (Pacific), Federal Office treasurer.
Bldg., San Francisco, Calif. 94102.

ployment Office (Atlantic), Hdqtrs., Potomac River Naval Command, Washington, D.C. Germany, will be guest speaker 20390, on or before May 25.

The following PTA personnel

and below may pick up their

ASPA to Host **BuStandards Director**

the National Bureau of Stand- First Lieutenant Division will ards, will be guest speaker next issue the passes. Thursday, May 21, at a luncheon | Passes are for use by military meeting of the local American dependents. Children must be Society of Public Administration. 12 years of age or over.

tive Dining Room.

tour the Station.

Bowen Ave., Ext. 725071.

special films at the Station theater between 10 a.m. and NOTS Civic Concert Assn. will 2 p.m.

"The meeting will be brief Gates to the Station will be

hristian Science (Chapel Annex) Morning Service-11a.m. Sunday School-11 a.m.

rotestants (All faith Chapel) Morning Worship-8:30 and 11 a.m. Sunday School-9:30 a.m., Groves and Richmond elementary schools. oman Catholic (All Faith Chapel)

Holy Mass-7, 9:30 a.m., and 5:30

3 a.m. Monday through Friday, 8:30 a.m. Confessions-8 to 8:25 a.m., 6 to 8:30 p.m. Saturday. Thursday before First Friday—

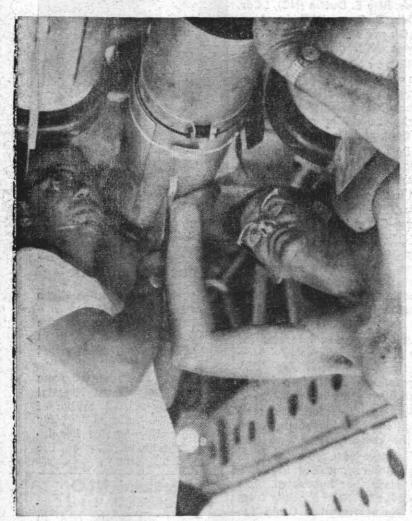
Every first and third Friday, 8:15 p.m. nitarian Fellowship (Parish Hall) Fellowship Meeting - Sundays, 7:30 p.m. *inday School - 9:30 a.m.

Captain Charles Blenman, Jr., USN

DEADLINES Tues., 4:30 p.m. ...Tues., 11:30 a.m.

TIM, a Tracking Instrument Mount developed by NOTS, measures the thermal protection needed by astronauts during a spacecraft's re-entry into the earth's atmosphere after an orbital flight. Jimmy Josephson checks out instrument before it was airlifted to Ascension Island in the South Atlantic to track the re-entry of an Apollo-shaped vehicle.

'Stormfury'



CYCLOPS II silver iodide dispensers are loaded into bomb bay of A3B aircraft by R. C. Noles and William Burson. A team of NOT Sscientists, led by Dr. Pierre St. Amand, achieved remarkable success in retarding hurricane "Beulah" with iodide seeding off Puerto Rico during Project Stormfury.

Some Key NOTS Projects of the Past Year



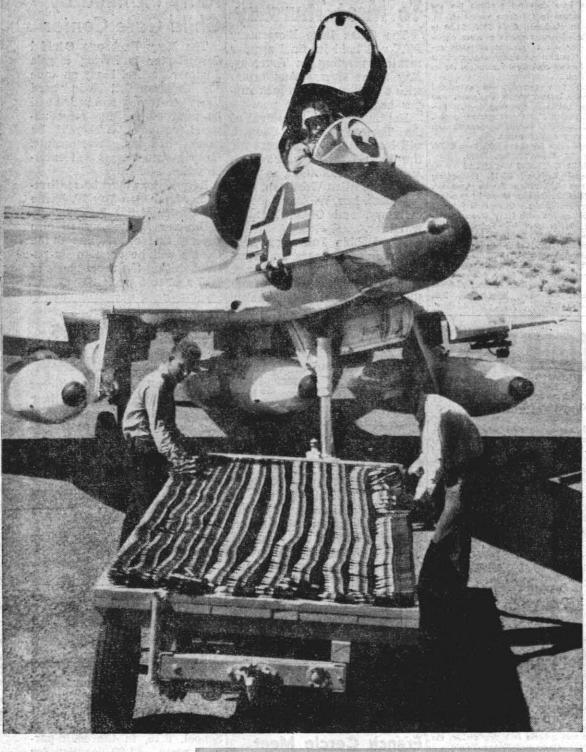
RAP, Rocket Assisted Projectile's fluorcarbon propellant is examined by Charley Rodgers and Jud Eldridge of the Propulsion Development Department. Project incorporates use of a rocket motor to give 5-inch projectile longer range. Men wear protective clothing. Both are pioneers in solid propellant research at NOTS.



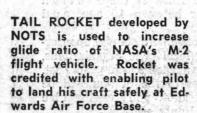
SHRIKE, air-to-surface antiradar missile mounted on an AF-1E aircraft, is in final development stages here.

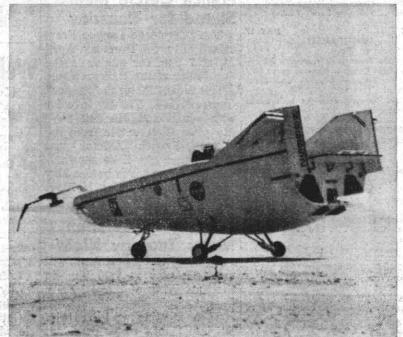


DR. WM. B. MCLEAN (right) prepares to climb into observer compartment of the French Diving Saucer "Denise" during tests off San Clemente Island.

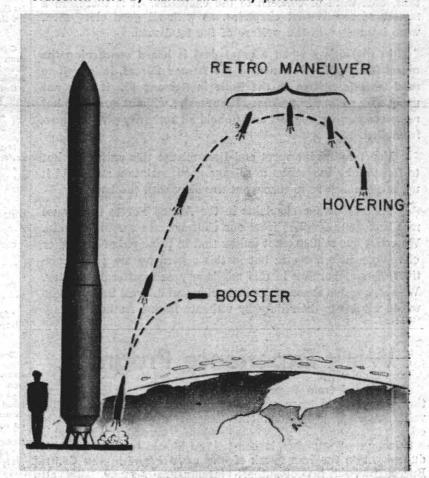


HIGHPEG, the Navy's fastest gun, is shown with its 887 armor-piercing 20mm cannon shells, which gives the Skyhawk fighter 10 times the gun firepower of its World War II predecessor. Gun underwent tests here and was demonstrated during President Kennedy's visit to NOTS in June of '63.

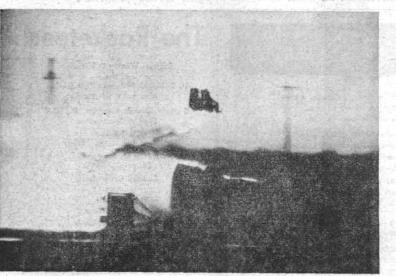




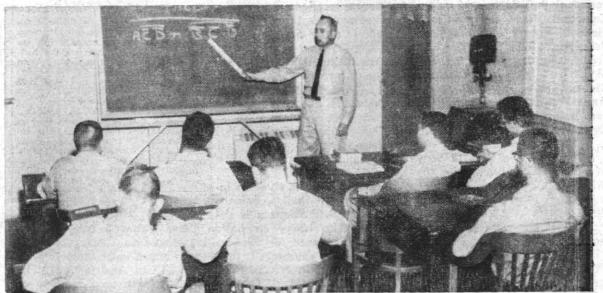
REDEYE, a joint Army-Marine Corps shoulder-fired bazookatype surface-to-air missile, is currently undergoing tests and evaluation here by Marine and Army personnel.



HOVERING ROCKET SYSTEM — Artist's conception shows trajectory of Hovering Rocket System being developed by the Propulsion Development Department to place a 700-lb. payload at high altitudes.



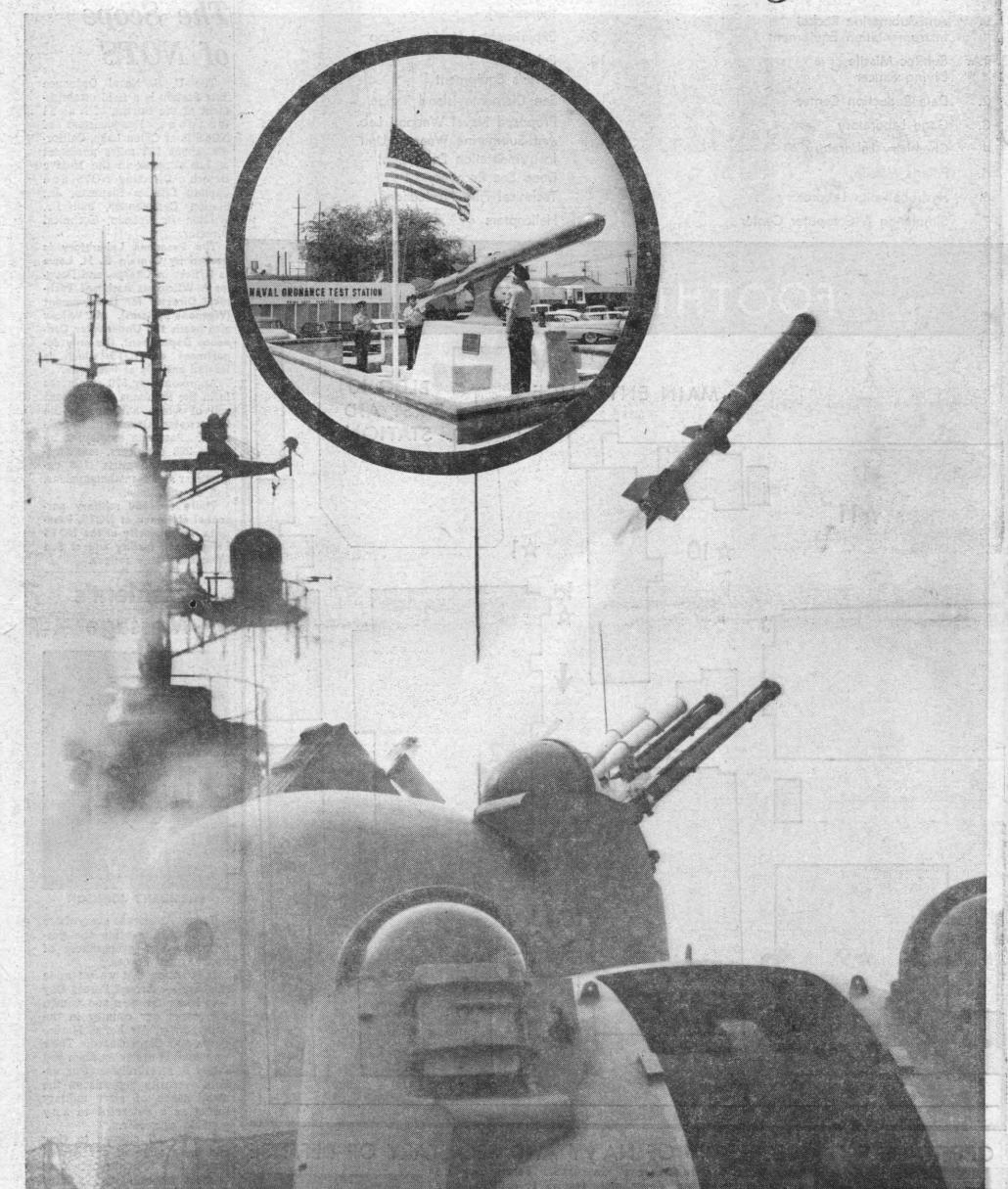
GEMINI SPACECRAFT dual seat ejection system is tested on NOTS Supersonic Test Track. Ejection system provides astronauts with method of escape during launch pad phase and early part of powered filght. First system test was made here while astronaut Gordon Cooper was on his historic 22-orbit flight.



DIGITAL FIRE CONTROL CLASS is conducted by A. P. Taylor, FTC, for members of the Station's Guidance Radar Branch. This 200-hour course of Basic Fire Control Digital

Techniques was the first of its kind to be conducted by the Navy. Course was prepared by the Navy's Typhon Training Unit, Baltimore, Md. Twenty completed the course.

Armed Forces Day

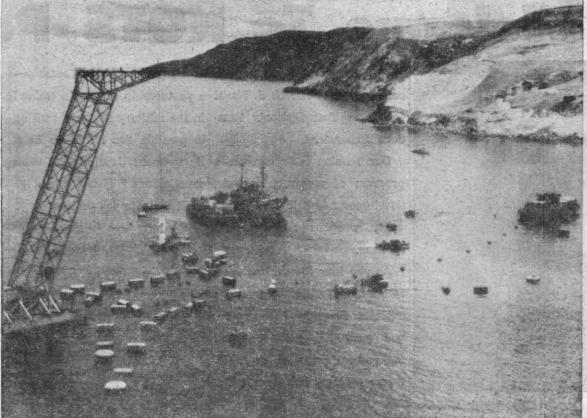


U. S. NAVAL ORDNANCE TEST STATION, PASADENA, CALIFORNIA

Navy Science For Defense



DIVER - A NOTS diver checks underwater equipment off San Clemente Island. The NOTS divers supports all NOTS projects involving underwater work, be it an engineering task, welding, burning, or explosives work. Divers recover torpedoes, make underwater repairs to equipment.



SCI RANGE — At the San Clemente Island test range, many major milestones have been reached in the Polaris Program, including the first inert ballistic missile to be fired from

underwater and a short time later the first underwater launch with propulsion thrust. The giant Fish Hook crane (left) has been used to test the Polaris missile since early phases.

POLARIS

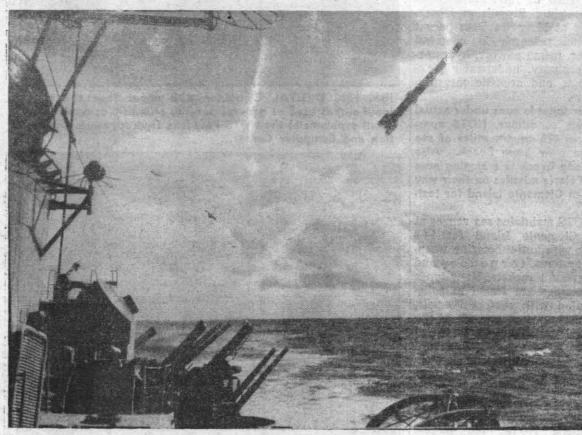


MORRIS DAM — The only facility of its kind in the country, the Variable Angle Launcher at the Morris Dam Test Range is a giant blow gun. Missiles are launched by compressed air through launching tubes, easily achieving velocities up to 1,000 feet per second or 682 miles per hour. It is adjustable in angle from 0 to 40 degrees for making water-entry studies

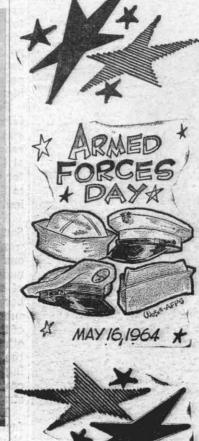




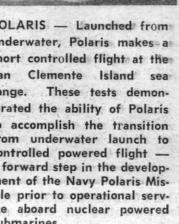
LONG BEACH - Based at Long Beach, the NOTS fleet consists of 12 boats. Each boat can be used for a variety of projects supporting all NOTS sea operations.



ASROC - Deadly ASROC missile is fired The rocket booster separates in flight and a from shipboard. The front half of this missile parachute lowers the torpedo into the water is a deadly homing torpedo that is boosted where it seeks out its submerged target. by solid propellant rocket to the target area. ASROC was developed by NOTS.



underwater, Polaris makes a short controlled flight at the San Clemente Island sea range. These tests demonstrated the ability of Polaris to accomplish the transition from underwater launch to controlled powered flight a forward step in the development of the Navy Polaris Missile prior to operational service aboard nuclear powered submarines.



ARMED FORCES DAY OPEN HOUSE SCHEDULE OF EVENTS

Exhibits

Anti-Submarine Rocket Instrumentation Equipment

SubRoc Missile Diving Saucer

Data Reduction Center

Gage Laboratory

Chemistry Laboratory

Polaris Missile

Hydroballistics Laboratory

Simulation & Computer Center

Movie (Begins 10:30 a.m. and every 45 min thereafter).

Experimental Machine Shop

Exhibits

Diver's Equipment San Clemente Island Range Proposed Naval Weapon Lab. Anti-Submarine Weapon Unit Instrumentation Equipment Deep Sea Recovery Technical Film Productions

Helicopters

FOOTHILL BLVD. BLDG.10 MAIN ENTRANCE FIRST AID STATION ☆11 ☆10 \$ ¥9

GREETINGS FROM SECRETARY OF NAVY AND SECRETARY OF DEFENSE



SECNAV PAUL J. NITZE

and out, can be justifiably proud We must continue to hold out

-Paul Nitze Secretary of the Navy

Never before in time of peace | On Armed Forces Day we has the Navy-Marine Corps must resolve to continue our team been better prepared to ready military forces. We must utilize its power to aid in the resolve to demonstrate our willpreservation of a peaceful ingness to risk their use where world. All of us, in uniform our vital interests are at stake.

of the role we play in the drama a helping hand to those nations being constantly unfolded on the directly opposed to Communist world stage. We believe that aggression and those nations the many strengths of our De- which are striving to provide fense establishment will make better life for their people. And, the continuation of peace a cer- we must resolve to continue to keep open the door to peace.

-Robert S. McNamara Secretary of Defense | SECDEF R. McNAMARA



The Scope of NOTS

The U. S. Naval Ordnance Test Station is a field establishment of the Bureau of Naval Weapons. Headquarters of NOTS is at China Lake, California, about 155 miles northeast of Los Angeles in the Mojave Desert. Directing NOTS are Captain Charles Blenman, Jr., Station Commander, and Dr. William B. McLean, Technical Director.

The Pasadena Laboratory is headed by Captain G. H. Lowe as Officer in Charge, and Douglas J. Wilcox as Assistant Technical Director for Development (Weapons Systems). Mr. Wilcox also heads the Underwater Ordnance Department, the only department of NOTS which is located entirely at Pasadena.

Approximately 870 employees form the Pasadena employment roll of which half are in the Underwater Ordnance Department. Pasadena employees include 228 engineers, mathematicans, and scientists (153 engineers, 33 mathematicians, and 42 scientists).

There are 150 military personnel stationed at NOTS, Pasadena, the majority at the NOTS Long Beach facility and at San Clemente Island ranges.

President's Message



Today, Americans everywhere can view with pride the performance and prepardness of their Armed Forces.

It is fitting that we set aside this day - Armed Forces Day -to honor the men and women who serve our country in the Army, Navy, Air Force, Marine Corps and Coast Guard. Their contribution to our freedom and safety is measureless. Our national security depends on the maintenance of alert military forces as a deterrent to any possible aggressor.

I invite all citizens to view and learn more of our Armed Forces and their preparedness to meet this challenge. And as Commander-in-Chief, I urge all of my countrymen to join me in honoring our servicemen and women on Armed Forces Day,

-Lyndon B. Johnson President of the United States

Cover Credit

Cover page was designed by Richard C. Frederick, Head of the Art Section.

Welcome To NOTS Pasadena Labs



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

dena Laboratory.

development and test of under- most for your tax dollars. water weapons and weapons

our personnel will tell you more about the work of NOTS theme - Navy Science For De-

NOTS takes great pride in its

IN THE MODEL LABORATORY is the Variable Atmospheric Tank (VAT), a 12-foot diameter, 39-foot high pressure tank.

VAT can accommodate 1/5 scale models of large missiles.

Photographic data is obtained during tests with high-speed

cameras mounted at strategic portholes. The latest addition to the Model Lab is the VAT Mounted Vertical Water Tunnel,

which is used to investigate hydrodynamic problems, The

THE FOUR-AXIS FLIGHT TABLE is used in simulation stud-

ies, simulating the actual movement of torpedoes in the

VAT serves as a stilling chamber for the Water Tunnel.

coming you to the U. S. Naval a partnership of people trained Ordnance Test Station's Pasa- in the military sciences, making it possible for NOTS to keep Our mission is to conduct a its weapons development work program of research, analysis, practical and giving you the

Introduce to Fleet

Military personnel also aid in As you tour the various labo- getting new weapons accepted ratories, and view the weapons by and introduced into the Fleet. exhibits throughout the area, The civilian-military team is concerned not only with immediate weapon requirements, but also with research on weapon sys- sonnel, civilian scientists, entems that will be required many gineers, and technicians is for years from now.

Here is employed a basically of being geared to maintain "Power For Peace."

We take great pride in wel- civilian-military partnership | carry on the entire spectrum of weapons development. With the ultimate objective of filling the needs of the Fleet, the military-civilian 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 peryou, the citizens of our country. The NOTS approach consists We must continue jointly to



CAPT. G. H. LOWE Officer in Charge

NOTS Pasadena's Unique Activities The Pasadena Annex encom

passes a wide area of unique research and development activities - ranging from the Foothill Laboratory, to Morris Dam in the San Gabriel Canyon, and ranges at Seal Beach, Long Beach, and 60 miles off the coast to San Clemente Island.

At the headquarters laboratory on Foothill Boulevard, a military - civilian team directs the many facets involved in weapon system research, development, and evaluation. In addition to the administrative offices at Foothill, are numerous research and test facilities.

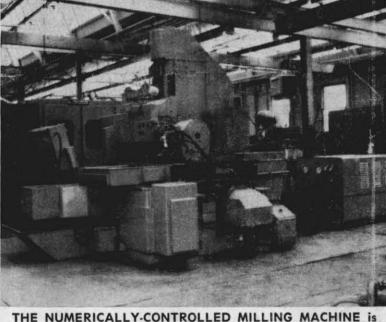
These include a Hydrodynamic Simulator for testing ASW missiles, torpedoes, and torpedo components under conditions prevailing in the actual sea environment, a Variable Atmospheric Tank for testing scale weapons models in the water environment, a Chemistry Research Laboratory, a Hydropropellants Lab, a Gyro Lab, Structures Lab, and an Electronic Lab to mention but a few.

At Morris Dam, a great outdoor laboratory exists with many types of launching facilities for torpedoes and underwater rockets. Water - entry studies are made and short-duration runs of full-scale missiles are made. Propulsion laboratories at Morris Dam permit applied research in chemical power, prime movers, hydroturbomachinery, underwater propulsion, and acoustic measure-

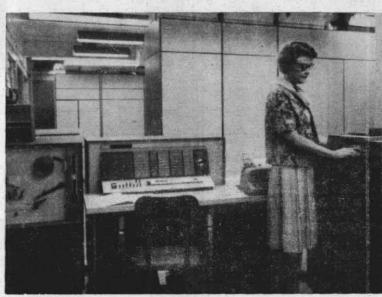
For torpedo runs under actual service conditions, NOTS operates in 475 square miles of sea range near Long Beach. Also at Long Beach is a staging area for Polaris missiles on their way to San Clemente Island for test-

NOTS maintains sea ranges at San Clemente Island for its work with anti-submarine weapons systems, torpedoes and underwater rockets. Many types of missiles are tested in collaboration with surface vessels, submarines, and aircraft of the of the Pacific Fleet. Cameras and other instrumentation record the phases of missile launchings and trajectories from aircraft, surface vessels, and a strategic shore location.

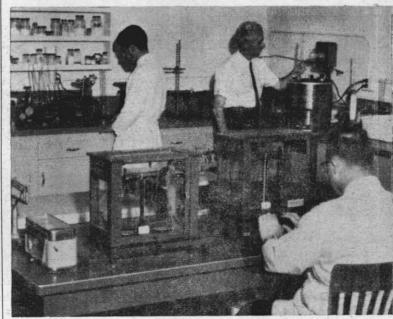
Through these activities and facilities, NOTS, the largest Naval activity in the Pasadena area, makes a large contribution to the defense of our coun-



another first at NOTS since we are the first Navy Laboratory, and believed to be the first government lab, to obtain such a machine.



IBM 1620 DIGITAL Computer with paper tape and card input-output used as general purpose scientific computer for small problems at the NOTS Pasadena Hydrodynamic Simulation and Computer Center.



CHEMISTRY LAB — Chemical drag reductions studies are currently being carried on in the chemistry lab.