

Armed Forces Day Planners

Behind the varied and extensive displays, tours, and demonstrations for Armed Forces Day is a group of officers and department personnel.

Cdr. F. W. Bustard, Head of the Naval Air Facilities Target Department, is the officer in charge of the Armed Forces Day program for the Station.

His wide-ranging Navy background as a veteran naval aviator and work with missiles and rockets gives him an overall view of NOTS' activities.

He entered the Navy through the Midshipman Program and won his "wings" at Pensacola, Fla., in 1949.

His naval experience has included duty as a pilot with Fighter Squadrons 121 and 124, staff duty with Commander, Carrier Division Five and Commander, Naval Air Force, Pacific Fleet.

He holds an MS degree from the Naval Post Graduate School, an MA degree from the University of California and has completed his work for a Ph.D. degree with the exception of his dissertation.

Secretary McNamara Lauds
Armed Forces Day visitors will get a glimpse of the research, development, and test work being carried on at NOTS of which Secretary of Defense Robert McNamara has said, "An example of the effectiveness of programs at NOTS is that over 75 per cent of the air-to-air and air-to-ground weapons being used in Viet Nam today were developed at NOTS."

Committeemen
Assisting Cdr. Bustard with the Armed Forces Day program are LCdr. W. J. Buc,



CDR. F. W. BUSTARD
... AFD Project Officer

NAF Coordinator; W. H. Hampton and Richard W. Rusciolleli of the Technical Presentations Coordinators office; J. H. McGlothlin, Community Relations Office; "J" "T" Bibby, Public Affairs Officer; Ray Sinnott, Exhibit Branch, Presentations Div.; TID; LCdr. Russell Myers Jr., Public Works Dept.; and Lt. Samuel McMullen, Security Dept.

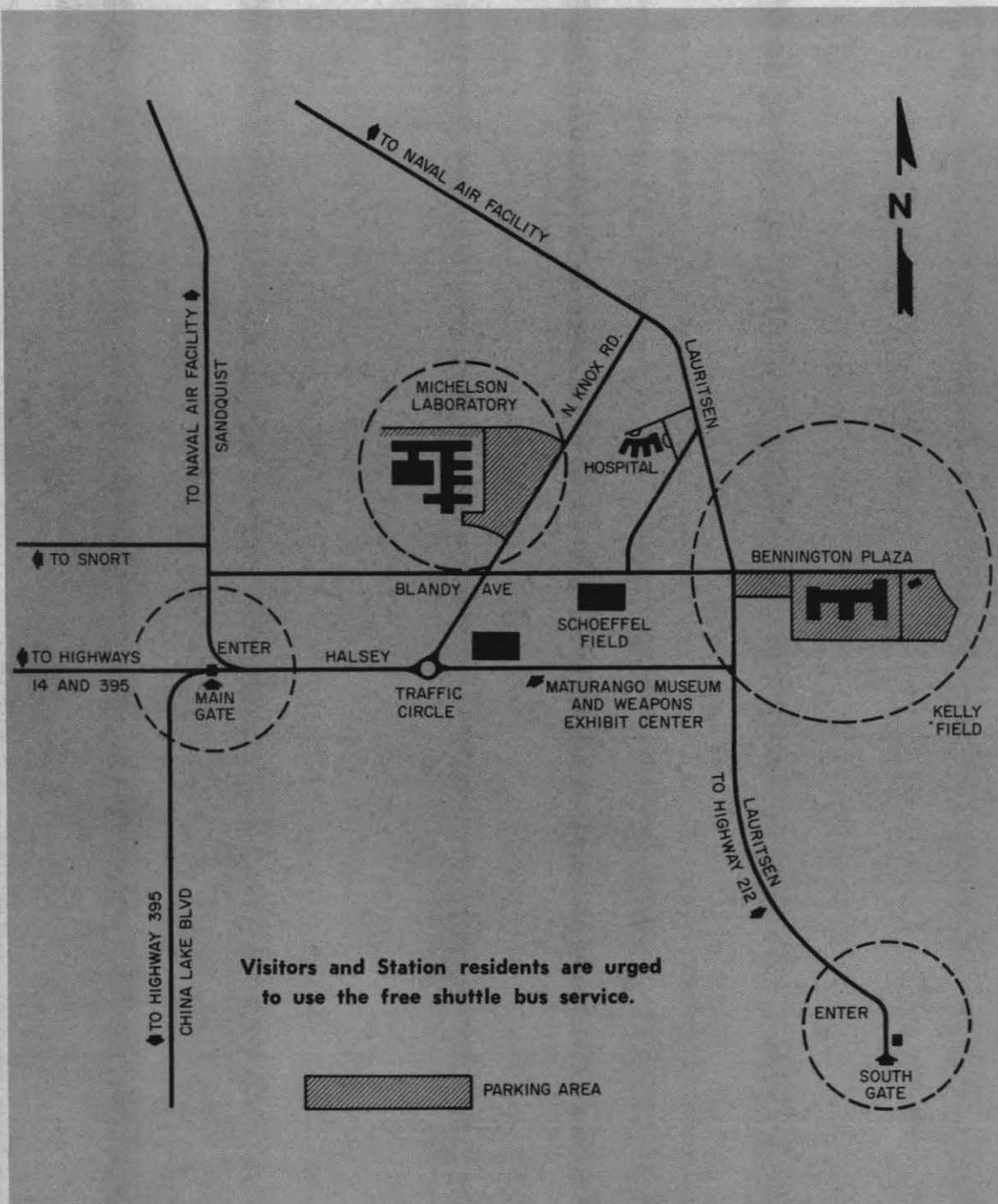
Application Forms Now Available Locally For Absentee Ballots

Application forms for absentee voter's ballots for the Primary Election June 7, are now available from Maxine Sutherland, 450-B Essex Circle, China Lake. Any registered voter who expects to be absent on election day or will be unable to go to the polling place must send application by May 31 to the County Clerk in Bakersfield.

Armed Forces Day Program

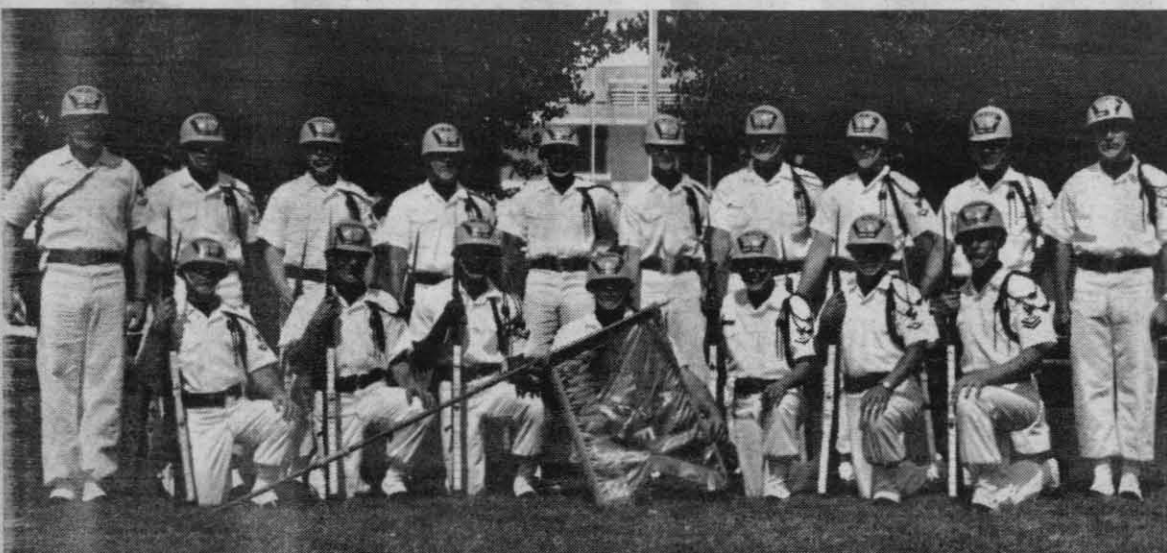
Saturday, May 21, 1966

- | | |
|--|--|
| 6-10 a.m.
Kiwans Club Breakfast
Community Center
Parking Lot | 12:30 p.m.
Michelson Laboratory Open
To Visitors. |
| 7 a.m.
Gates Open to Public | SNORT Track Area Open
To Visitors. |
| 7 a.m.-2 p.m.
Station Restaurant Open | 1 p.m.
All Faith Chapel Open. |
| 8 a.m.-4 p.m.
Maturango Museum and
Weapons Exhibit Open | SNORT Movies Every
Half-Hour |
| 8:30 a.m.-12:30 p.m.
Display of aircraft at
Naval Air Facility | 2:30 p.m.
SNORT Firing Demonstration |
| 9 a.m.-4 p.m.
Continuous showing of NOTS
and Navy Films at
Station Theatre | 4:30 p.m.
Program Ends. |
| 9:30 a.m.
NAF Precision Drill Team
Performs On the Hour
At the Naval Air Facility | BUS SERVICE
A free shuttle bus service
will operate between Bennington
Plaza via the Maturango
Museum and the Naval Air Facility
from 9 a.m. to 12:30 p.m. |
| 10 a.m.-3 p.m.
Military Ceramics Hobby
Shop at Community Center | From 1 to 4 p.m. the bus will
operate between Bennington
Plaza via the Maturango
Museum and the SNORT Track
area. |



AIR FORCE TESTS — 20 members of the 331st Fighter Interceptor Squadron from Webb AFB, Big Springs, Texas, will be at NAF for the next 30 days to test the Sidewinder missile with their three F104A Starfighters. The four officers assigned to the

detachment are (l to r) Lt. Col. Pat Green, Project Officer; Maj. Wesley Brown, Detachment CO; Maj. Kenneth Reed and Capt. William Malloy, test pilots. One of the supersonic fighters will be on display at NAF during Armed Forces Day.



DRILL TEAM TO PERFORM — The award winning Naval Air Facility 17-man drill team will perform at NAF on Armed Forces Day. The first performance is scheduled to start at 9:30 a.m. and will continue throughout the day every hour on the half hour. The team,

which averages 10 events a year, is headed by Rudolph Falcone, ADR-3. Two of the many awards that the team has received are 1st place in the National Orange Show (two years in a row) and 1st place in the Military Division at Whiskey Flats.

From _____

TO _____

PLACE
STAMP
HERE

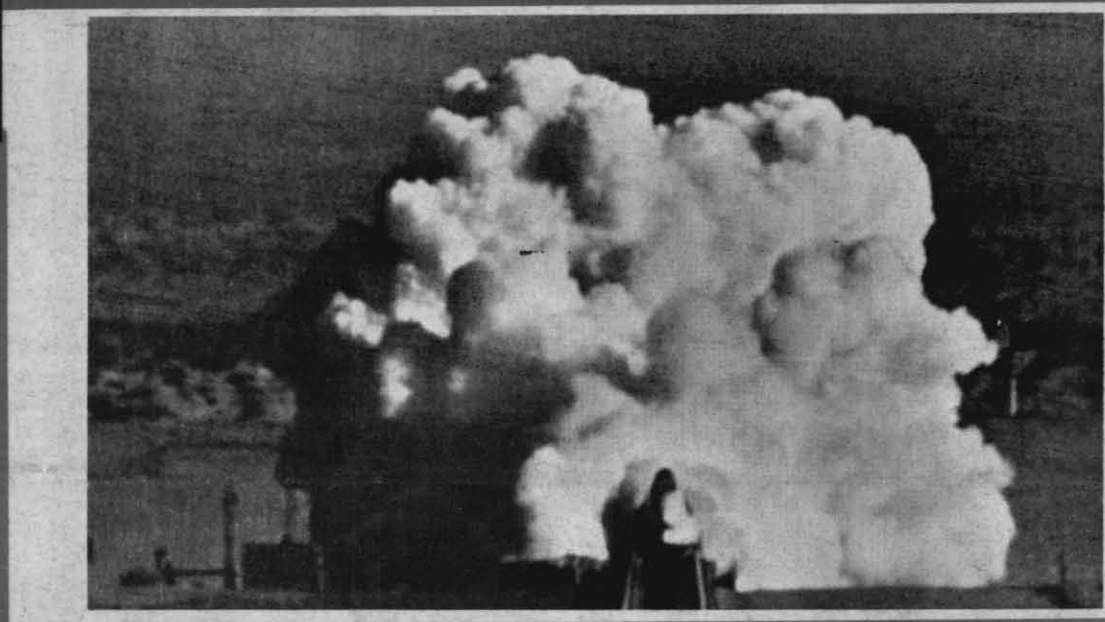


Vol. XXI, No. 20 Naval Ordnance Test Station, China Lake, California Fri., May 20, 1966

REPORT TO THE NATION

ARMED FORCES DAY

OPEN HOUSE
SATURDAY, MAY 21, 1966
7 a.m. to 4.30 p.m.



Civilian-Military Partnership At NOTSPasadena Welcome To NOTS Pasadena

NOTS Pasadena operates on a civilian - military partnership headed by Capt. G. H. Lowe, Officer in Charge, and D. J. Wilcox, Assistant Technical Director for Development (Weapons Systems) and Head of the Underwater Ordnance Department, the only department of NOTS which is located entirely at Pasadena.

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. NOTS takes great pride in its people who are trained in the physical sciences and people who are trained in the military sciences, making it possible for NOTS to keep its weapons development work practical and giving you the most for your tax dollars.

Pasadena encompasses a wide area of unique research and development activities, ranging from the Foothill Laboratory to 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.

Today, for the third consecutive year, the Foothill facility has opened its gates to welcome friends and neighbors to view exhibits and movies depicting the vital work being done here for our nation's defense.



Douglas J. Wilcox and Capt. G. H. Lowe review Armed Forces Day Program.

We welcome you to the U.S. Naval Ordnance Test Station Pasadena Laboratory. We are always pleased to have this one opportunity during the year to invite all of our friends and neighbors to visit us and see first hand the important projects your Navy has developed right here in your own community.

Through the combined efforts of the civilian-military partnership we are able to carry out our primary mission which is the development of new weapon systems in the fields of rockets, guided missiles, antisubmarine weapons, and aircraft fire-control systems.

Development of these systems requires intensive research, test, evaluation and engineering for production. These operations are conducted within a framework of over-all long-range planning, which is based on studies of Naval weapon requirements and calculations on the combat effectiveness of future weapons.

As you tour the various laboratories, and view the weapon exhibits throughout the area, our personnel will tell you more about the work of NOTS Pasadena — work demonstrating our theme — Undersea Weapons — Power for Peace.

Sea Cadets Are Ready To Assist

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.

Youth Training

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, loyalty, 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."



LONG BEACH SEA RANGE Shore Facilities are located at the Long Beach Naval Station and control the operations of the Long Beach Sea Range. Permanently attached to the Long Beach Sea Range are a number of vessels which have been modified for use in the testing of underwater ordnance systems and components. A variety of weapon systems have been tested at this facility. Most of these weapon systems use the torpedo as the payload. These torpedoes may be launched from submarines, destroyers, airplanes, helicopters or auxiliary vessels. Torpedoes may also be launched as the payload of ASW missile systems.



MORRIS DAM TEST RANGE—This test range is located at Morris Dam in the mountains above Azusa, California, about 20 miles east of the Foothill plant. Morris Dam forms a 150-foot deep lake ideal for the test launching of full-scale underwater weapons. The facilities include the Variable-Angle Launcher, the floating variable-angle explosive launcher, the rocket launching tower, the slingshot launcher, the simulated submarine impact facility, the sonic barges, the underwater cableway, and the propulsion laboratory.

SAN CLEMENTE ISLAND — NOTS activity at its San Clemente Island base has been publicized widely in connection with several of the Navy's major weapons. It was here that development testing was done on such programs as Polaris, SUBROC and ASROC. The first inert Polaris ballistic missile to be fired from under water and the first underwater launch with propulsion thrust was also accomplished here.



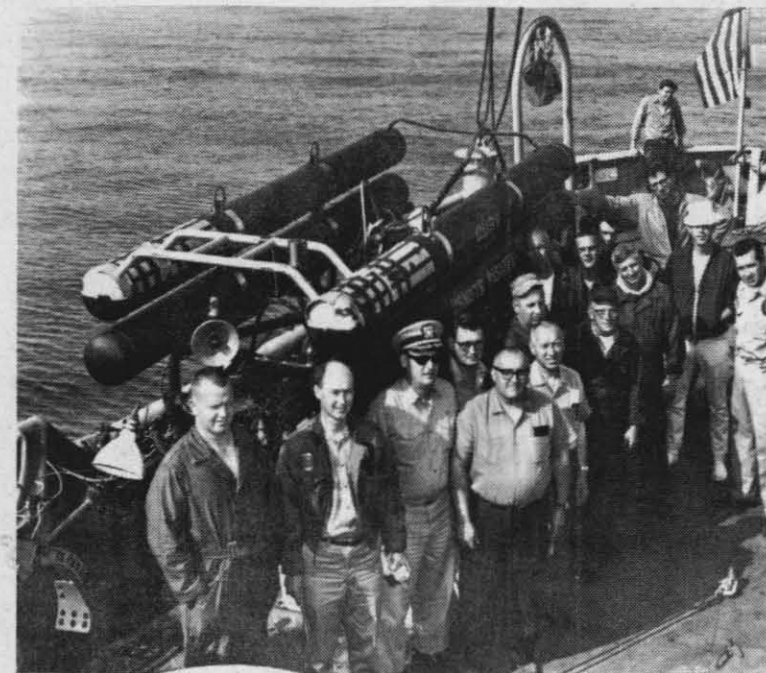
PASADENA ANNEX—Headquarters of the U.S. Naval Ordnance Test Station at Pasadena is located at 3202 E. Foothill Blvd., Pasadena. The mighty ASROC (Anti-Submarine Rocket), developed by NOTS, marks the Foothill entrance. Here, with the other facilities located at Morris Dam, Long Beach, Seal Beach and San Clemente Island, scientists, engineers, and scientifically trained military personnel exchange ideas and concepts, and carry them through development. Existing weapons are improved and new ones originated. Assuring that the Fleet gets the weapons it most requires, Fleet groups make frequent visits for exchange of information. Maintained at the Foothill plant in addition to the administrative offices, are many unique test facilities.



Small Business Is Big Business NOTS Pasadena And SEALAB II



RECOGNIZING THE IMPORTANCE of the small business firm in the overall economy of our community, and in cooperation with the Small Business Act of 1958, NOTS, Pasadena maintains a "Small Business Office." Here, Mrs. Virginia Banister, NOTS Small Business Specialist, counsels and assists small business firms in obtaining a fair share of contracts and orders for supplies and services.



THE PROUD AND HAPPY CREW who assisted in the Navy's recovery of the H-Bomb off Spain's Palomares Beach pose on board the USS Petrel in front of CURV, the recovery vehicle. Personnel are from NOTS Pasadena, Long Beach Naval Station, and Photosonics. CURV (Cable-Controlled Underwater Research Vehicle) was developed at NOTS Pasadena and has proved its worth many times over by recovering valuable ordnance items from the ocean bottom, resulting in untold savings of time and money.



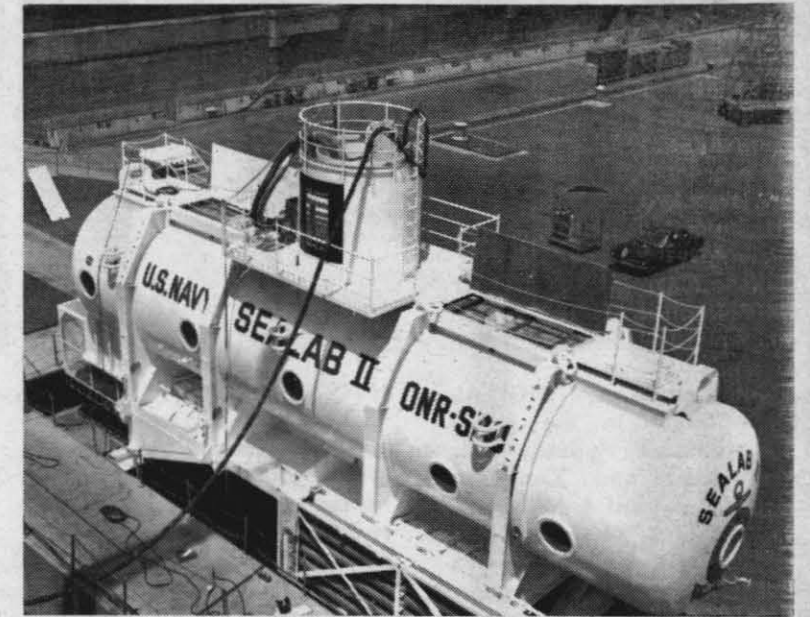
CAPT. G. H. LOWE, Officer in Charge, NOTS Pasadena, speaks to the Los Angeles Chapter of the National Security Industrial Association (NSIA). Station personnel, including many members of an active Speakers' Bureau, participate in many such activities, thereby creating a better understanding of the vital role of NOTS in Anti-Submarine Warfare Research and Development.

NOTS Pasadena played what may have seemed a minor role, but what actually amounted to one of the most important parts of the Navy's SEALAB II program off La Jolla, California, last summer.

This included providing the support ship (staging vessel) which had to be modified to accommodate this particular project, systems intergration, designing the open sea moor for the vessel, all surface support during the 45-day period of operation, operating the staging vessel, and all small boat logistics and personnel transportation.

NOTS Navy divers were on 24-hour duty during the entire project performing surface and underwater work.

NOTS provided complete documentary motion picture coverage on all aspects of the NOTS systems intergration and surface support.



SEALAB II stands ready for 45-day Man-in-the-Sea project.



A DRONE HELICOPTER carries the Mark 46-0 during test operation off Long Beach. This weapon is capable of hunting, overtaking and killing today's modern conventional and nuclear submarines. In addition to the Drone Helicopter (DASH) surface ship delivery may be accomplished by torpedo tube, or ASROC (anti-submarine rocket). The MK 46-0 can also be launched by fixed wing aircraft at speeds up to 400 knots, or helicopters. NOTS Pasadena had technical direction of the design and development of the MK 46-0.

Armed Forces Day Queens

The young ladies from Adrian Models, Pasadena, are not only lovely to look at but display a great deal of enthusiasm for every hour of the day, while pursuing their respective careers and favorite sports.

Pat Jacobs, 19, a secretary from Arcadia is a lover of the outdoors and is especially fond of golf and horseback riding. Her selection as "Miss Marine Corps" came as quite a blow to her older brother, now in the Army. "Sis," he commented, "You haven't joined the Marines! Not really!"

Mabs Benjamin, 20, graduated from Beverly Hills High and will get her diploma from

Woodbury College in August. Mabs (from her initials, Muriel Ann Benjamin) is planning her future as a secretary or an airline stewardess. She loves all sports but especially water skiing, surfing, and snow skiing. Mabs was selected as Miss Army and was then chosen Miss Armed Forces.

Nancy Bailey, Miss Air Force, 18, presently attends Arcadia High, concentrating on secretarial courses. She has been modeling for 7 years and plans to continue this career for several years. Pat, an avid swimmer, recently placed 3rd in Miss Typical Teen Contest held at Las Vegas.

Cathie Reimer, Miss Navy, 16, is a junior at Crescenta Valley High School. She hopes to continue modeling while furthering her education. Cathie has won 120 trophies and 60 medals for baton twirling and was featured on the cover of Drum Majorette Magazine for the month of January.

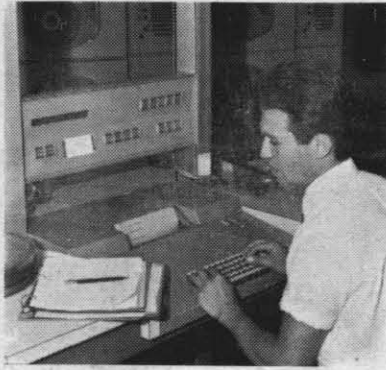
Cathie placed 3rd in the state for Miss Majorette and won the Senior Sweepstakes held in McHenry, Illinois last August. She presently teaches this art. She was Princess for the March of Dimes Campaign and placed 3rd in the Miss Teenage of Los Angeles Pageant.



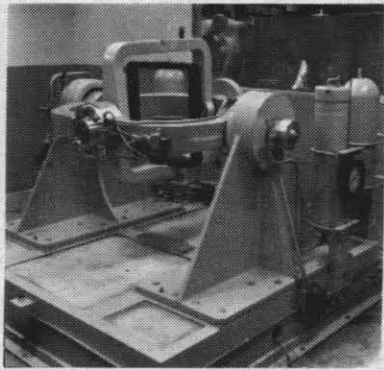
ARMED FORCES DAY QUEENS—Pasadena military facilities are represented by local beauties (l-r) Pat Jacobs, Miss Marine Corps;

Mabs Benjamin, Miss Army and Miss Armed Forces; Nancy Bailey, Miss Air Force; Cathy Reimer, Miss Navy. All are Adrian models.

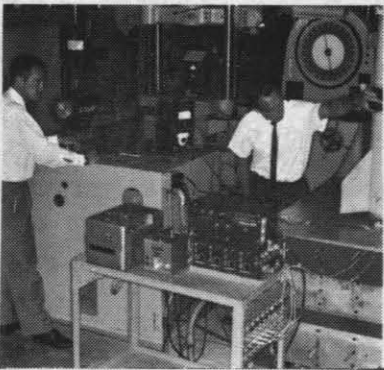
Laboratories Open For Viewing Today



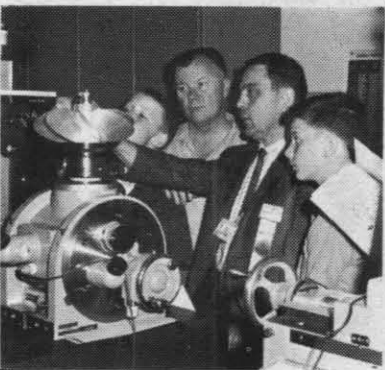
THE UNIVAC 490 DIGITAL COMPUTER in the NOTS Pasadena Hydrodynamic Simulation and Computer Center, is used to generate, in real time, acoustic reflection from a submarine which is then output to a torpedo. It is also used as a general purpose scientific computer.



HYDRODYNAMIC SIMULATOR—Located in the Simulation Laboratory, this is one of the unique test facilities for testing ASW missiles, torpedoes, and torpedo components under simulated hydrodynamic and acoustic conditions prevailing in the actual sea environment.



ENVIRONMENTAL LABORATORY—Conduct environmental testing on Naval Ordnance items. Environmental testing simulates condition under which this ordnance must operate in actual service. This testing includes, shock, vibration, temperature and humidity testing.



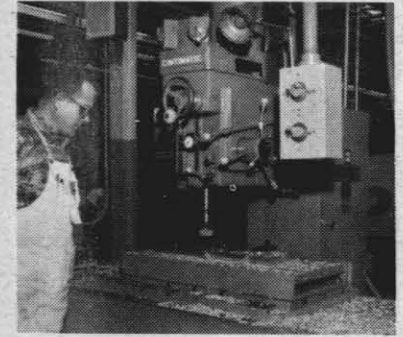
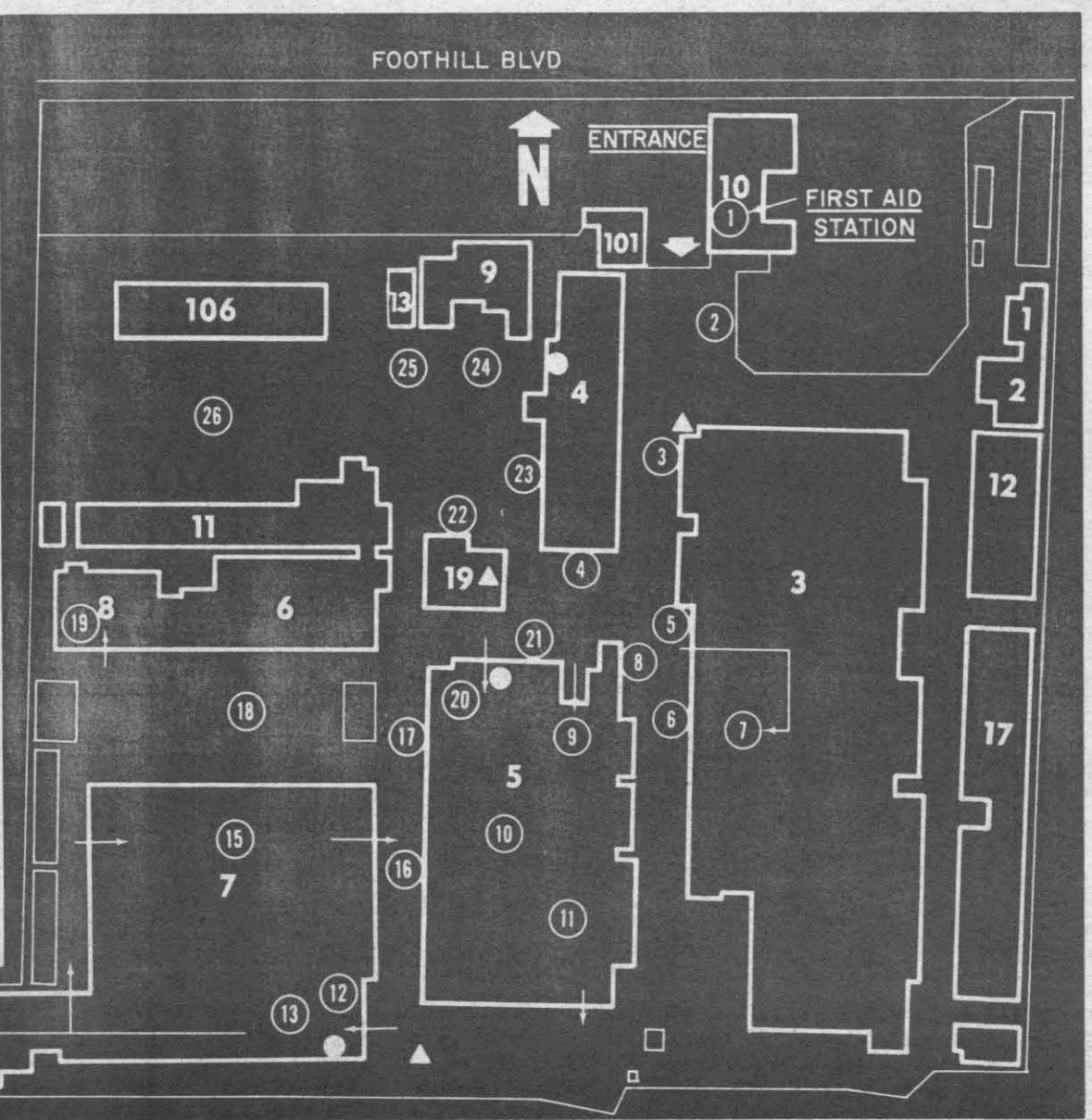
GAGE AND STANDARDS LAB—This lab equipment can measure with absolute accuracy to one ten-millionth of an inch. That's equivalent to splitting a strand of hair 3000 times. The primary function of the gage lab is to provide documentation for precision inspection.



THE STATION PHOTO LAB boasts up-to-the-minute facilities for processing technical data so invaluable to research programs. The copy camera (shown above) is one of the most recent pieces of equipment available to the photography staff.

Open House Schedule of Events

- ▲ Canteen
- Restrooms
- 1. First Aid station
- 2. Polaris
- 3. ASROC
- 4. Peroxide display
- 5. Practice bombs
- 6. Cableway vehicle, SWISH, torpedo drag reduction, algae, viscosity pumping, propeller stabilization, fluorescent display
- 7. Gage and standards lab
- 8. Glass - blowing, hydrofoil boat, underwater sound
- 9. Hydroballistics lab
- 10. UNIVAC 490 computer
- 11. Simulation lab
- 12. Synchro-to-digital converter
- 13. Movie "Footprints in the Sea" and laser demonstration (upstairs, begins 10:45 and every 45 min. thereafter)
- 14. Environmental lab
- 15. Machine shop and displays
- 16. Sonobuoy, polar plotter
- 17. SEALAB II
- 18. DASH and Mk44, Bell helicopter
- 19. Photography lab
- 20. Movie "Undersea Technology" (begins 10:30 and every 15 min. thereafter)
- 21. Cameras
- 22. Torpedo Launcher MK 32, Mk 46, EX 2
- 23. YFU 53 model, BALD ping-pong receiver, divers
- 24. CURV
- 25. DASH and Mk 46
- 26. Helicopter and airborne cameras



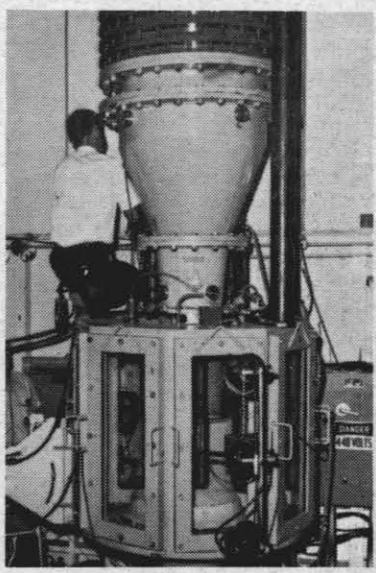
NUMERICALLY - CONTROLLED Milling Machine, located in the station's precision Machine Shop, operates simultaneously in four axes of motion receiving its command from an eight - channel punched tape.

Cover Credit

Cover page was designed by Robert L. Barrett in the Illustrations Section of the Product Engineering Division.




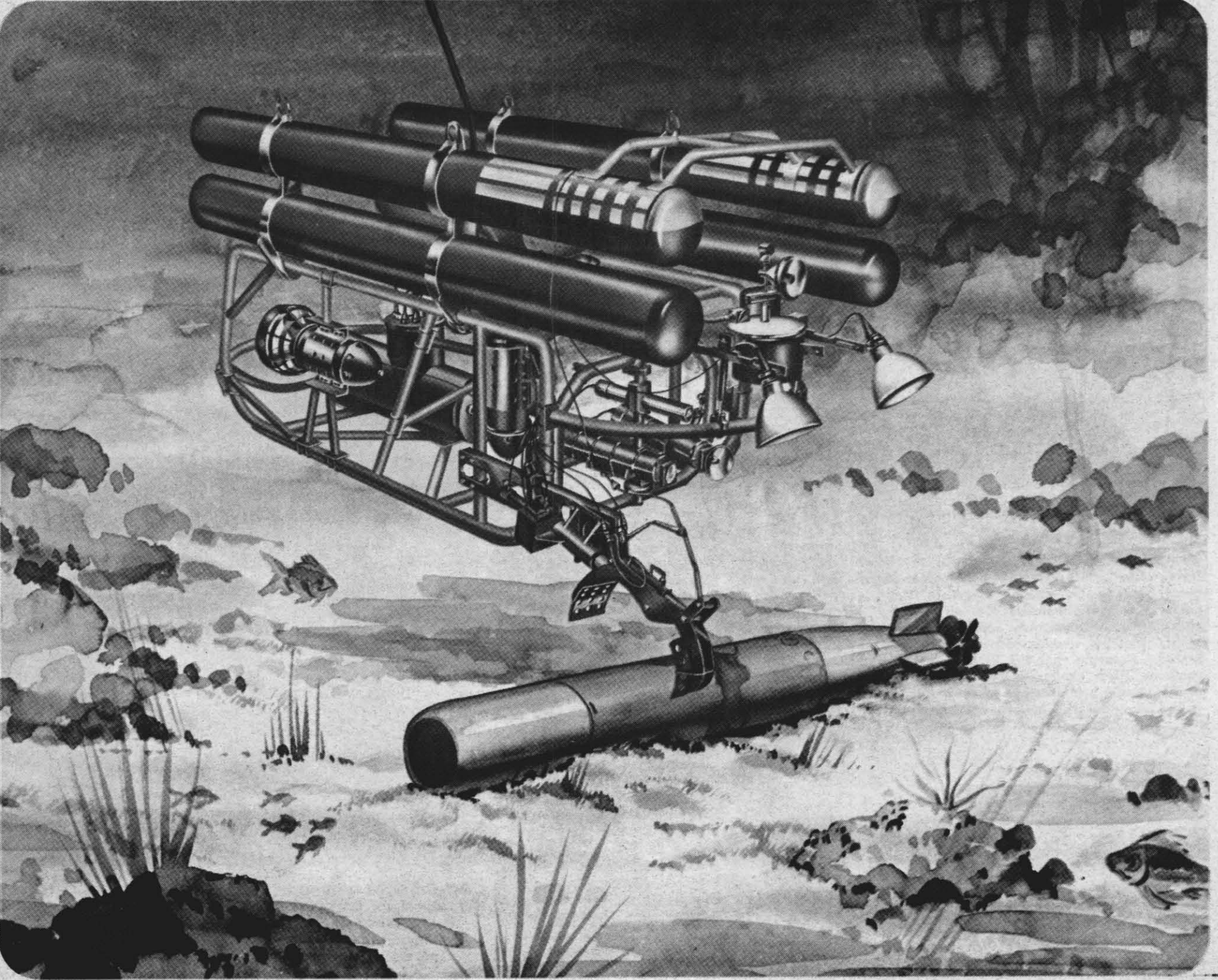
A SPECIAL ATTRACTION of a previous Armed Forces Day is repeated this year. The Helicopter SH-3A, with torpedo payload, is a unit of a hunter killer task group for anti-submarine warfare. Visitors will be allowed to view the inside of the twin jet helo which was flown in from the Naval Auxiliary Air Station, Ream Field, Imperial Beach, California.



HYDROBALLISTICS LABORATORY — This lab is equipped with an open - jet vertical water tunnel shown above and a variable - atmosphere tank (VAT). A water tunnel is a research or test facility in which the flow characteristics about bodies which move in water are studied. This is accomplished by maintaining the body being tested in a fixed position while water is moved past it to create a relative flow field between the body and the water.

SOUVENIR EDITION

U.S. Naval Ordnance Test Station
Armed Forces Day
 Pasadena California

CHAPLAIN'S MESSAGE

Navy Chaplains Answer the Call

By CHAPLAIN MARK E. FITE



A part of the theme for Armed Forces Day this year is: "What We Do With Men—And Why We Do It." I wish to apply this as it relates to Chaplains serving in our Armed Forces.

The history of the Armed Forces is replete with the names of ministers, priests, and rabbis serving wherever men are called to arms. In the gallery of heroes are found its share of these men who served as bravely and gave their last full measure as their comrades in arms.

Navy Chaplains serve wherever Navy and Marine Corps personnel serve. None of these clergymen can join the Navy without first being qualified according to current Navy standards and only then with the endorsement of the denominations they represent. They serve on a quota basis according to the number of personnel of their respective denomination in the Naval forces.

Why do these serve? A general statement is sufficient — because our country is concerned with people. These Chaplains are missionaries of our Churches in uniform.

On Jan. 29, 1943, four Army Chaplains, two Protestant, one Roman Catholic and one Jewish, gave their life jackets to soldiers who were separated from their own, with 601 other men in the U.S. Army transport Dorchester.

The USS Arizona is the tomb of a Navy Chaplain who was with the men of his "parish" on Dec. 7, 1941 at Pearl Harbor. Chaplains were with the men on the Bataan death march and in prisoner of war camps. Korea saw its fair share of these in every situation with the troops. Viet Nam holds a large concentration of Chaplains now deployed with combat troops.

Why do Chaplains do this? My answer could be very personal and long. But it is sufficient to say that we feel a Divine "call" to be involved in the affairs of men. When this is realized — one can't help being concerned for all mankind.

Our country's richest asset is her people; and our clergymen in uniform are proud to have a part in maintenance of it. This asset becomes very meaningful to each of us when we think of the worth of the person. When we remember that Christ gave his last full measure for each of us, then not one who serves his fellowman serves in vain. We are indeed compassed about with a great number of witnesses.

America is her people. May our united voice be lifted in prayer and demonstrated by moral integrity, "God's crown of good with brotherhood from sea to shining sea."

Freedom Sunday

Members of the Protestant Congregation of the All Faith Chapel will join choirs from five other churches in the Indian Wells Valley in the annual observance of "Freedom Sunday," May 22 from 3:30-5:30 p.m. at the Community Methodist Church at 639 Normal Street in Ridgecrest.

This Sunday's observance is chaired by Rev. Roy Ross, pastor of Covenant United Presbyterian Church, and the principal speaker will be Rev. Robert Johnson, pastor of Grace Lutheran Church. Mayor Ken Smith will give greetings from the City of Ridgecrest.

Other churches participating in this all faith observance are: the Immanuel Baptist, Saint Michael's Episcopal and the Union Baptist.

The Rocketeer

Official Weekly Publication of the U. S. Naval Ordnance Test Station China Lake, California. Capt. John I. Hardy, USN Station Commander. "J." Bibby Public Affairs Officer. Frederick L. Richards Editor. Staff Writers: Budd Gott, John R. McCabe, Joan Raber. Staff Photographers: Jerry Williams, PH1; Robert Hancock, PH2; Dennis Smith, PH3; Jerry Willey, PHAN; and Ralph Roedel, PH2 (Pasadena).

DIVINE SERVICES Christian Science (Chapel Annex)—Morning Service—11 a.m. Sunday School—9:30 a.m. Protestant—(All Faith Chapel)—Morning Worship—8:30 and 11 a.m. Sunday School—9:30 a.m., Chapel Annexes 1, 2, 3, 4 (Dorms 5, 6, 7, 8) located opposite Station Restaurant. Roman Catholic (All Faith Chapel)—Holy Mass—7, 9:30 a.m., and 12:30 p.m. Sunday. Lenten Masses—11:30 a.m. and 4:45 p.m. Tuesday through Friday; 8:30 a.m. Saturday. Confessions—6 to 8:30 p.m. Saturday. NOTES Jewish Services (East Wing All Faith Chapel)—8 p.m. every first and third Friday. Sabbath School—10 a.m. to noon, every first and third Saturday. Unitarian Fellowship—For information write P. O. Box 5436, China Lake, or phone NOTS Ext. 725591.

PROMOTIONAL OPPORTUNITIES

Present Station employees are encouraged to apply for the positions listed below: Applications should be accompanied by an up-to-date Form 58. The fact that positions are advertised here does not preclude the use of other means to fill these vacancies.

Traffic Manager GS-5, 7 or 9 (one vacancy) — To manage the Station's official passenger traffic, and to provide technical assistance in travel and transportation matter.

Qualifications required: GS-5, three years general experience of progressively responsible work requiring a technical knowledge of traffic activities. GS-7, three years general experience plus one year specialized experience in managerial, planning or advisory work relating to efficient and economical utilization of common transportation carrier services. GS-9, three years general plus two years specialized.

Clark (DMT) or Clark (Steno), GS-4 or GS-5 (One vacancy), Code 174 — Provides editorial, steno, secretarial and general clerical support for several analysts in Management Analysis Division.

File applications for above with Sherry Scheer, Bldg. 34, Room 26, Ext. 71577.

Inspector (Machined Parts) A, Code 5512 — As an Inspector A, performs difficult inspection of any kind, at any inspection station.

File application for above with Loretta Dudley, Bldg. 34, Room 34, Ext. 71514.

Electronic Technician, GS-11, Code 4022 — Position located in the Receiver Section, Advanced Guidance Branch, Weapons Development Department. As Senior Electronic Technician, incumbent is responsible for design and development of major subsystems in special purpose guidance receivers. Assignments take the form of general statements defining input-output relationships. Incumbent must demonstrate highly developed skill in the areas of guidance system evaluation, radar, and radio systems.

Clerk Typist, GS-4, Code 40051 — Types reports and technical material from rough drafts, types reproduction masters, performs miscellaneous clerical duties as required. One year general office-clerical experience and one year clerical experience that involve predominantly typist duties is required.

File applications for above with Sandra Craig, Bldg. 34, Room 28, Ext. 72476.

Warehouseman, WB-05 (\$2.79 to \$3.03 per hour) Code 259 — Performs a number of tasks in connection with the physical receipt, storage, or issue of supplies. Receives, checks, stows, counts, issues and assembles supplies of all types in accordance with established supply systems, procedures and methods.

Qualifications: Must have had six months experience in warehousing.

File applications for above with Naomi Campbell, Bldg. 34, Rm. 28, Ext. 72218.

Engineering Technician (Electrical), GS-9, Code 3514 — Will perform or assist project effort in the development of mechanical devices utilizing electrical energy. Work will also involve some electronic applications. A significant requirement of the position will be the responsibility to document various reports on project effort.

File application for above with Mary Morrison, Bldg. 34, Rm. 32, Ext. 72032.

COMPETITIVE PROMOTIONAL EXAMINATION

The U.S. Marine Corps Air Station, El Toro (Santa Ana), Calif. announces a competitive promotion examination for Quartermaster Electrician. File Card Form NAV-EXOS 4155-AB and 4156-AB and Standard Form 57 with the Industrial Relations Department, U.S. Marine Corps Air Station, El Toro (Santa Ana), Calif. 92709, no later than the close of business on May 31.

COMPETITIVE EXAMS

The Board of U.S. Civil Service Examiners, Eleventh Naval District, announce examinations to establish registers for the following to fill vacancies as they occur at the U.S. Naval Ordnance Test Station, China Lake, Calif.:

Messenger, GS-2 and GS-3, Ann. No. SF-20-60 (66). Applications will be accepted until further notice.

Instrument Mechanic (Electronic), Ann. No. SF-20-60(66). Applications will be accepted until June 22, 1966.

File Card Form 5000 AB with Civil Service Representative, U.S. Naval Ordnance Test Station, China Lake, Calif., 93555.

GS-3 CLERK EXAM OPEN

Examinations for Clerk, GS-3, are now open by Amendment No. 2 to Announcement No. SF-20-60(65) which lifts the post suspension. Applications will be accepted until further notice.

PASADENA

To apply for vacancies, contact Nancy Reardon, Pasadena Personnel Division, Extension 492. A current SF-58 must be submitted when applying.

Engineering Technician, GS-11, PD: 3P-80026, Code P80832 — Plans and manages various test programs for the Advanced Systems Branch. Includes coordination and liaison, participation in tests, correlation and analysis of test results, preparation and review of reports and correspondence, and research and investigation in connection with assigned projects.

Clerk Stenographer, GS-4, PD: 1P80008, Code P8054 — P8053 — As secretary to both Analysis and Fire Control branch heads, performs a variety of stenographic, typing, clerical and administrative duties including typing technical reports, memoranda, and official correspondence; processing of mail, purchasing, travel, personnel, and payroll records and records; maintains daily calendar for branch heads scheduling appointments, conferences, and lectures; serves as receptionist.

President's Message



Freedom is indivisible. It is not secure in America when it is brutally denied elsewhere on this earth.

The struggle to be free is a struggle worthy of man's unceasing sacrifice. And it is worthy of America's abiding commitment in Vietnam and in other parts of the world where violence threatens man's earnest desire to be free.

Those who serve in distant lands in the uniforms of our Armed Forces know the meaning of this commitment. They know the meaning of the bond which inextricably unites America's freedom with the freedom of her friends around the world.

They bravely and selflessly uphold an historic commitment. And they sustain a legacy which has made this Nation the world's arsenal of freedom and democracy.

As Commander-in-Chief, I join all my fellow Americans in the traditional observance of Armed Forces Day, and in high tribute to the valor and dedi-

cation of those whose courageous service this day commemorates.

—Lyndon B. Johnson, President of the United States.



ARMY GENERAL VISITS NOTS—Major General B. J. Pochyla, USA, paid a visit to NOTS last Tuesday accompanied by his technical director and was briefed on the NOTS operation by Capt. John I. Hardy. Picture shows the General and Capt. Hardy in front of the A4 Skyhawk, recently mounted as a free-fall weapon exhibit.

Unitarians to Give Musical Program Sat. Armed Forces Day

The Unitarian Fellowship of Indian Wells Valley will present a musical program entitled "Songs of Isolation and Relation" this Saturday, 8 p.m., at the home of Andrew Victor, 204 Shangrila Circle.

This will be the group's final meeting for the summer. Regular Sunday evening programs will resume next fall, after school starts.

Aetna Agent To Be At Community Center Thursday and Friday

Howard Keenan, representative of the Aetna Insurance Co., will be at the Community Center next Thursday, May 26, from 9 a.m. to 4:30 p.m. and on Friday, May 27, from 9 a.m. to 3 p.m., according to Austin Ross, Head of Employee-Management Relations.

Following is the Armed Forces Day Statement of U.S. Civil Service Commission Chairman John W. Macy, Jr.

In these critical days of world tensions, Americans find comfort in knowing that our Nation's dedicated, alert, and powerful Armed Forces stand solidly as a bulwark against aggression and injustice—as a "Power for Peace."

Supporting our uniformed personnel at home and abroad, the million civilian employees in the Department of Defense day in and day out contribute substantially to the defense effort. As dependable partners of our uniformed forces, these civilian workers serve as a vital link in America's defense chain. They perform a tough, important, and necessary job.

I urge Federal employees and their families to learn more about the missions and proud achievements of our military-civilian defense team by attending Armed Forces Day observances this May in or near their communities.

Defense is everyone's business.

National Drivers Test Slated On TV Tuesday Nite

The Safety Department urges all employees and their families to take part in the new 1966 National Drivers Test. The Test, in color, will be televised over the CBS network Tuesday, May 24, at 10 to 11 p.m. Locally it may be seen on Channel 2.

The program is designed to familiarize already licensed drivers with the techniques of Defensive Driving and with the need to apply them.

Viewers at home will receive the correct answers immediately following each question. At the same time, test groups, representing a cross-section of the nation's drivers, will be taking the Test at CBS studios. Their results will be computed and transmitted instantaneously to viewers who may compare their scores with those of the sample.

The program is being presented just three days before the Memorial Day week-end in an effort to create greater awareness of holiday driving hazards and the need for special skills in avoiding these hazards.

Official Test forms will be printed and distributed by the Shell Oil Company, sponsors of the show. The New 1966 National Drivers Test will be produced by CBS News in cooperation with the National Safety Council and International Business Machines.

For more information about the program, contact the Safety Department. Copies of the test form may also be picked up at the Safety Department on or after May 16.

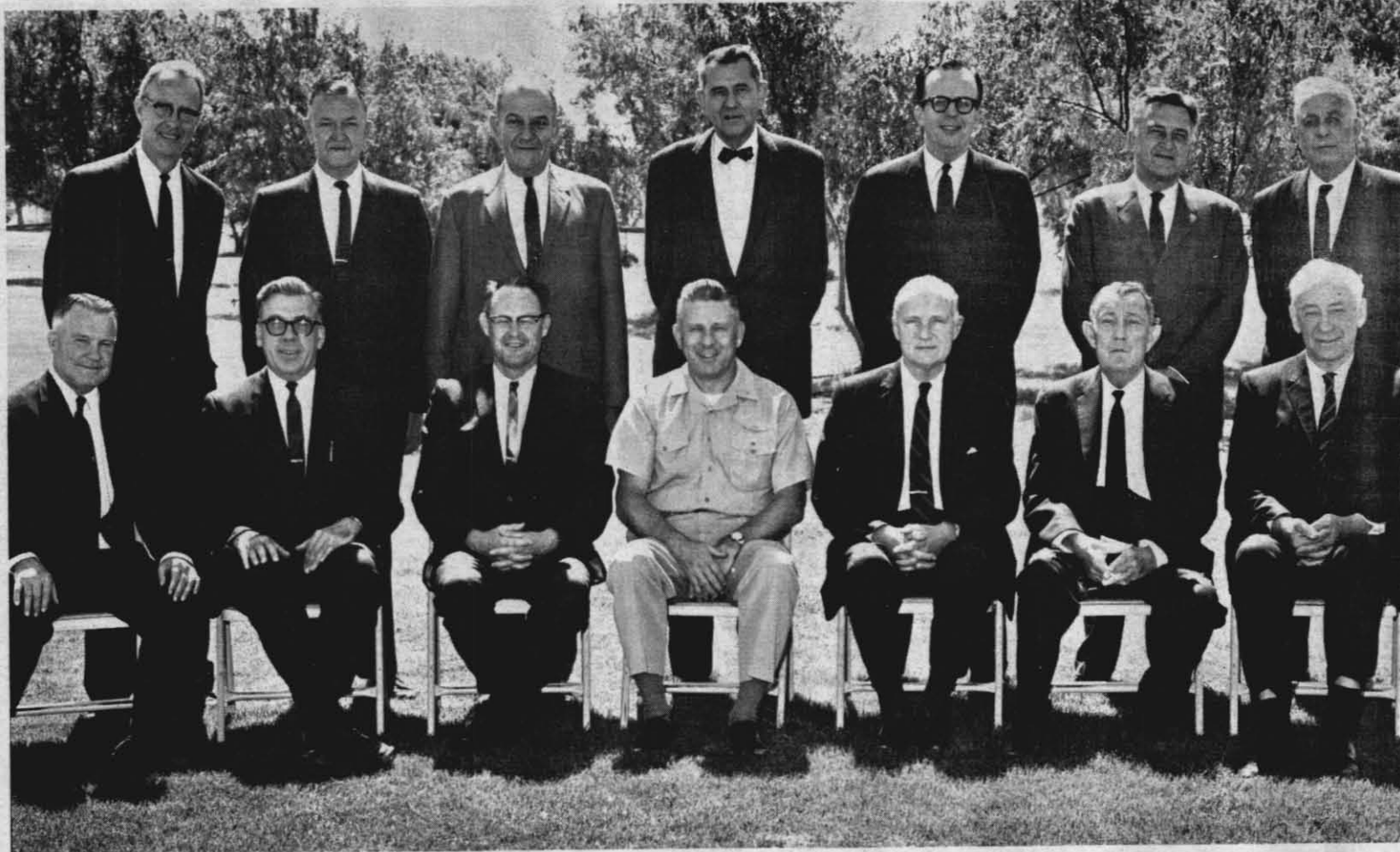
Civic Concert Ass'n Plans Annual Meeting, Will Elect Officers

The China Lake Civic Concert Association will hold its annual meeting and election of new members to the Board of Directors on Thursday, May 26, at 8 p.m. in the East Wing of the Chapel. All persons who have season tickets to the concert series are members of the Association and are urged to attend this meeting which is held each year in accordance with the by-laws.

Retiring board members are Bruce Wertenberger, who has been president of the Association this year; H. L. Bagge, Jr., who has served as treasurer; Mrs. L. H. Blackmun of Trona who finished out the term of Mrs. Virginia Wiseman, and Marvin Backman who is currently directing the sales campaign for the coming year. The nominating committee who will present the candidates includes Mrs. D. T. McAllister, Fred M. Ashbrook, and Earle E. Kirkbride.

BHS Debaters To Hold Rummage Sale Sat.

This Saturday, the Burroughs High School debate squad is holding a rummage sale at the Sierra Outdoors, 131 Balsam, from 9 a.m. to 5 p.m. The proceeds will go to help promising debaters attend summer speech institutes in hopes of college debating scholarships.



NOTS ADVISORY BOARD—Members attending annual spring meet here May 12-13 (seated, l-r) are VAdm. Paul D. Stroop, USN (Ret.); Dr. Gerald W. Johnson, Director of Navy Labs; Dr. William B. McLean, technical director, NOTS; Capt. J. I. Hardy, commander, NOTS; Dr. James H. Wekelin, Jr.; Dr.

Charles C. Lauritsen, Dr. L.T.E. Thompson. Standing (l-r) are Dr. Luis W. Alvarez, Adm. John H. Sides, USN (Ret.); RAdm. Rawson Bennett, USN (Ret.); Dr. Frederick C. Lindvall, Dr. J. C. R. Licklider, H. G. Wilson, associate technical director, NOTS; and Dr. W. Albert Noyes, Jr.

Coulter Receives Scholarship



CHEN COULTER

Chen Coulter of 64 Vieweg Circle, has been selected by the Executive Committee of the Mojave Desert Section of the American Institute of Chemical Engineers to receive a recently adopted and expanded \$75 scholarship proposed by a Scholarship Committee.

The new program makes provisions for the scholarship annually to a graduating senior at each of the three local high schools, Trona, Burroughs and Boron. The scholarships are presented to encourage students to continue their education in the fields of science or engineering.

The Scholarship Committee is composed of William P. Koontz of China Lake, Luis Castro-Conde of Boron, Reynold Eriksen and Thomas F. Canning of Trona.

Judge Gargano AAUW Speaker Tuesday Evening

Judge Roy J. Gargano of the Superior Court, Bakersfield, will be the featured speaker at the American Association of University Women's annual installation banquet, at 7 p.m. Tuesday, May 24, at the Officers' Club.

The new executive board to be installed are the Mmes. Carl Schaniel, president; Jose Shdo, first vice-president; Carl Austin, second vice-president; Arthur Gross, corresponding secretary; George Van Deusen, recording secretary, and James Heck, treasurer.

Another highlight of the evening will be the annual scholarship presentation to a senior girl from Burroughs High School.

Judge Gargano will talk on "The Evolution of the Criminal Law in the Atomic Age and the Role of the Judiciary in this Evolution." This deals with the basic and fundamental principles of the Constitution involving the problem of search and seizure, the problem of right to counsel, and the problem of self incrimination.

Cross Mt. Outing To Be Discussed At Museum Meet

An upcoming field trip by Maturango Museum members to Cross Mountain and vicinity will be the subject of a discussion Thursday, May 26, by Ken Pringle at a Museum meeting at the Weapons Exhibit Center.

The public is invited to the session, to begin at 7:30 p.m. Museum members will sponsor visitors from off-Station to attend. The Cross Mountain trip is to take in both Red Rock and Jawbone Canyons, and will cover observation of geology, mineralogy and possibly paleontology.

SHOWBOAT

FRIDAY MAY 20 "THE UGLY DACHSHUND" (93 Min.) Dean Jones, Suzanne Pleshette 6:00 and 8:15 p.m. "Comedy in Color" Walt Disney story tells of a Great Dane pup that is raised with three little Dachshunds and begins to think he's one too! And guess who gets blamed for all the Dachy's mischief? Here's that fine clean family film. Also Disney's special cartoon featurette "Winnie the Pooh" in color. Short: "Winnie the Pooh" (27 Min.) SATURDAY MAY 21 CONTINUOUS SHOWING OF NOTS AND NAVY FILMS —EVENING— "THE ROUNDERS" (85 Min.) Glenn Ford, Henry Fonda, Chill Willis 7:30 p.m. (Western Comedy in Color) Two devil-may-care horse wranglers "inherit" the most buckin' cantankerous bronco they ever saw and head for a rodeo with \$5 in mind. A chance meeting with a couple of burlesque queens also adds to the funny farce. (Adults, mature youth.) Short: "Out and Out" (7 Min.) "Art of Archery" (10 Min.) SUNDAY-MONDAY MAY 22-23 "MADAME X" (100 Min.) Lana Turner, John Forsythe, Ricardo Montalban 7:30 p.m. (Drama in Color) From the pinnacle of social life and a happy family, Madame X falls to degradation and a murder charge. The story of the penalty paid for one misdeed by a beautiful woman is dramatically told. A top cast. (Adult.) Short: "Just for Sport" (7 Min.) "Just for Sport" (10 Min.) TUESDAY-WEDNESDAY MAY 24-25 "ULYSSES" (104 Min.) Kirk Douglas, Anna Mangano, Anthony Quinn 7:30 p.m. (Adventure in Color) Thought to be dead by his Queen and people, Ulysses is washed ashore on an island where a pretty princess cares for him until he regains strength and memory. A classic of thrills, romance, and action in the Greek genres. (Adults and mature youth.) Short: "Great Doggone Stone Operation" (7 Min.) THURSDAY-FRIDAY MAY 26-27 "MINNESOTA CLAY" (88 Min.) Cameron Mitchell, Ethel Rojo 7:30 p.m. (Western in Color) Gunfighter escapes from prison to try to clear himself of the injustice done him but runs into a temptress caused by a fiery Mexican girl who has a torch for him. Successful, and unusual climax to loaded action. (Adults and mature youth.) Short: "Go Go Amigo" (7 Min.) "NSH 'U'" (18 Min.) TWO OUT OF THREE Two out of every three fighting men taken to the RVN have traveled aboard Military Sea Transportation Service (MSTS) transports.

Burros Stomp Palmdale High, Run Second in Golden League

BY MIKE TAYLOR
The Burros took second place in the Golden League with seven wins and five losses as they defeated Palmdale High School 2-0 and Victor Valley High 8-5 last weekend.

The Burros met Palmdale High School at Schoeffel Field last Friday for their sixth league victory, 2-0. The Burros scored their first run in the third inning after lead off man Mike Machowsky singled and Herbie Pinto, BHS pitcher doubled bringing Mike across the plate for the first run.

The Burros were unable to get another scoring combination until the sixth inning when John Manger, center fielder, started the offense as he drew a walk. John moved to second as Albert fled out. The next BHS slugger struck out but John made it home on a single by Jim Goforth, the short stop, for the second and final run. BHS pitcher Herbie Pinto struck out five, walked none, gave up four hits, while Payne, Palmdale pitcher struck out five, walked two and gave up five hits.

The Burros took Victor Valley High School in the second game of the weekend, 8-5.

Victor Valley scored first as they brought three men home in the first inning on three hits, but they were unable to stay in front as the Burros scored four runs on a hit in the second inning.

David Bittle started the offensive when he was walked and moved to second on a sacrifice by Duke Martin. Jim Goforth next to the plate walked and moved to second on a balk as Bittle moved to third. David scored on a passed ball, and then Barney Franich hit a two-bagger to bring Goforth in. Jim Keosky sacrificed to score Franich and Mike Machowsky took a walk and scored the fourth run when John Martin got on when the first baseman errored.

Burros scored another run in the third as Bittle doubled and scored on a sacrifice by Jim Goforth.

Victor Valley came back in the sixth to score two more runs, but the Burros broke the tie in the seventh and brought three runners home.

Mike Machowsky started off the inning with a single. Duke Martin followed with another as Mike scored the tie-breaking run. Stan Spurgeon came through with another single to score Duke putting Burros ahead by two runs. John Manger got a hit to bring Stan home making the score 8-5 but was forced out. Thus the game ended with BHS ahead by three as they took second place in the Golden League.

John Manger, BHS center fielder, has been chosen for all Golden League team. John has a .512 batting average for the season. It is the highest in the League.



CHAMPS FOR FOUR YEARS—These seniors won the Burroughs High School girls' basketball class tournament as Freshmen and have repeated for four consecutive wins. Squad members (kneeling, l-r) are June Winward, Chris Fath (captain), Cheryl Burton, Patsy Clodt. Standing (l-r) are Betty Tarr, Julie Campbell, Gina Hupka, Dorothy Foster, Betty Sutherland. They received sportsmanship trophy.

Courts Fill With Tennis Excitement In Club Tourney

Excellent weather and 42 sizzling tennis matches marked last weekend for the China Lake Tennis Club. The court battles, including men's and women's singles, men's and women's doubles, and a consolation bracket in men's singles, were played through semi-final matches.

Club president Bill Hughey got the most out of the tourney by playing 100 games in four matches, a stint gaining him the envy of the club but leaving him a tired racketeer.

Men's Singles Results
J. Whitnack defeated M. Ritchie, R. Boyd downed G. Hayes, W. Hughey defeated L. Faulk, C. Walden beat B. Glatt, and F. Bustard downed C. Walden. V. Rehn defeated J. Rogers, R. Mello beat V. Rehn, D. Beresford defeated O. Heimdahl, R. Peck drew a bye, and R. Lindstrom downed W. Wayne.

Quarter-final Results
Boyd beat Whitnack, Bustard downed Hughey, Beresford defeated Mello, and Peck won over Lindstrom.

Semi-final Results
Boyd beat Bustard and Peck defeated Beresford.

Women's Singles Results
It was J. Winward over J. Bustard, B. Peck drew a bye, J. Leipnik beat V. Molloy, and C. Fath defeated S. Standefer.

Women's Semi-final Results
Peck beat Winward and Fath downed Leipnik.

Men's Doubles Results
Beresford - Wayne downed Boyd-Rehn, Lindstrom-Walden defeated Hughey - Grabowsky, and Lindstrom - Walden beat Whitnack - Glatt, Peck - Faulk beat Mello - Rogers and Bustard-Heimdahl won over Hayes-Ritchie.

Men's Semi-final Results
Lindstrom - Walden downed Beresford - Wayne, and Peck-Faulk beat Bustard-Heimdahl.

Mixed Doubles Results
Beresford - Leipnik defeated



EVEN THE MODELS SHOW OFF—The Alkali Angels, an 18 member model airplane club at NOTS, will put on a continuous demonstration from 8:30 a.m. to 12:30 p.m. during Armed Forces Day. The 2 year old club will fly many different types of model planes, both U control and radio control. The event is due to take place on the taxi way west of hanger 2. There will also be a display in the hanger.

Osterman - Mello, Fath - Winward defeated the Standefers, the Claytons drew a bye, and Hughey - O'Neill downed Rogers - Molloy.

Quarter Final Results
The Pecks defeated Bennett-Rehn, Beresford - Leipnik defeated Winward - Fath, Hughey-O'Neill downed the Claytons, and Whitnack - Winward beat the Bustards.

Semi-final Results
Hughey - O'Neill downed Whitnack - Winward, and the Pecks beat Beresford - Leipnik.

Men's Consolation Results
In the semi-final action of this final category, W. Wayne beat J. Rogers, and G. Hayes beat L. Faulk.

Bill Hughey announced that the Club will establish tennis Ladders by drawing names for initial positions for future play. This promises all members much good competition, he said. Persons interested in joining the Club may call FR 5-2303 or NOTS ext. 723314.

Dr. Peter Pinto To Talk at Nurses Club

The regular monthly meeting of the IWV Nurses Club will be held Monday, May 23, at the Drummond Medical Clinic at 7:30.

The speaker will be Dr. Peter Pinto of the Ridgecrest Community Hospital Staff. His topic will be "Review of Contagious Diseases." All nurses in the Valley are invited to attend.

Former NOTS Man Dies of Injuries

Willis E. Vore, 48, Deputy head of the Range Operation Dept., Pacific Missile Range, and long time employee at NOTS, died at St. John's Hospital, Oxnard, Calif., as a result of a traffic accident in the Pt. Mugu area.

He is survived by his wife Muriel, and two daughters, Patricia and Michelle, all residing in Thousand Oaks, Calif. During his career at NOTS, Vore participated actively in many community affairs, and for many years was a member of the Valley Riders.

Cat Bites Girl Rabies Feared

Can you help a four year old child? Little Natalie Afendykiw was bitten by a large, long haired cat with a white spot on its neck. The cat must be found to determine if it has rabies. The incident happened on NOTS in the area of Rowe, Rodman and Ringold Streets joining Langley. If you can offer any information, please call Marko Afendykiw at 72846 or 73212.

Mechanic to car owner: "Let's put it this way, if your car were a horse it would have to be shot."

WELCOME TO CHINA LAKE



CAPT. JOHN I. HARDY
Commander, NOTS

Each year, during the Armed Forces Day open house, we have the pleasure of acquainting the public with the many facets of the Naval Ordnance Test Station, here at China Lake and the Pasadena Laboratory.

The weapon and development facilities used in various fields of science and engineering are unique, and we are happy to be able to show some of them to you at this time.

It gives us the additional opportunity to review the accomplishments of our military - civilian organization which is playing such an important role in the future and security of our great country.

As you tour the Station, you will see many interesting and varied displays, along with demonstrations such as the one at the SNORT Track. On display at the Naval Air Facility will be some of the Navy's newest and fastest jet aircraft which are used in our research and development programs.

It is our sincere hope that you enjoy a most pleasant and informative visit.



DR. WILLIAM B. McLEAN
Technical Director, NOTS

Naval Air Facility Exhibits Will Feature Late Aircraft

Armed Forces Day will provide visitors an opportunity to view many of the Navy's latest and fastest aircraft, some of which are now being used in Viet Nam, housed in the Naval Air Facility's \$4 million double-bay Hangar No. 3 complex, from 8:30 a.m. to 12:30 p.m.

Displayed Aircraft
The McDonnell F4 Phantom II, the world's fastest operational jet fighter with a top



CAPT. ROBERT R. YOUNT
Commanding Officer

speed considerably in excess of twice that of sound. The Phantom II carries a multiple load of Sparrow III and Sidewinder missiles.

The Ling-Chance-Vought F8 Crusader all-weather fighter which can carry four NOTS-developed Sidewinder guided missiles near Mach 2, doubling the normal complement of the powerful heat-seeking air-to-air missiles capable of destroying the largest bomber.

The Douglas A4 "Skyhawk" is a single-seat lightweight attack bomber which is less than half the size of, and superior in performance to many of the current operational jet fighters. The Skyhawk can carry nuclear weapons, missiles,

bombs, rockets, guns and other weapons.

The Douglas A1 "Skyraider" has been in continuous service for 12 years and is still in production. Originally designed in 1944 to carry a 1,000 lb. bomb, the Skyraider was operating in Korea with loads totaling 10,500 lbs., more than that carried by the four-engine B-17 Flying Fortress.

The F9 "Cougar" is a swept-wing development of the earlier straight-wing Panther, and at the present time is being used as a target drone at NOTS for the developing and testing of various missiles.

The P2V "Neptune" is designed as a reconnaissance bomber but has been modified in many different ways to perform a vast number of duties. This aircraft is so popular that it has been supplied to the RAF, RAAF, RCAF, RANAF, French Navy and the Japanese Maritime Self-Defense Force. This twin engine work horse was built by Lockheed.

The H-34 Sikorsky is a general purpose helicopter and was first flown in 1954. This particular helicopter is presently being used by the Army, Navy, and Marine Corps. There are also two commercial versions of the same craft.

Veteran Pilot is CO
Commanding Officer of the Naval Air Facility is Capt. Robert R. Yount, a decorated veteran jet fighter pilot of the Korean Conflict.

He came to his present billet from executive officer of the aircraft carrier USS Hornet.

His command, the largest military unit attached to the Station, is comprised of some 600 officers and men.

Crossroads Of Admirals, VIPS, Civic Leaders

Commonly known as NOTS, the Naval Ordnance Test Station is one of the nation's most important research and development centers. It is, therefore, understandable why, during 1965, nearly 4,000 visitors at NOTS included Admirals, foreign national officials, high ranking U.S. military and civilian personnel, leaders of civic and government agencies, and scientific personnel attending local symposiums and technical lectures.

We, the citizens of NOTS, like to brag, but — like the iceberg, much of the Station's output of new devices and ideas is invisible to the public. NOTS is part of the Bureau of Naval Weapons—and weapons are part of NOTS work — so naturally some of this work is protected for the security of the nation.

The products displayed on Armed Forces Day will give you some idea of the Station's tasks. Although weapons are our business, so are ideas and experiments in basic research and advances in technology and engineering. The things you see today will give only a limited idea of NOTS products.

NOTS is one of the very few organizations — governmental or industrial — in the United States capable of carrying on ordnance development from the idea stage completely through to a weapon ready for mass production. This is possible because NOTS has the technical personnel and the facilities required for conducting research, development, experimental production, testing, and technical evaluation on such ordnance items as guided missiles, torpedoes, rockets, and aircraft armament-control systems.

VX-5 Develops Techniques For Weapons Delivery

The American taxpayer can rest assured that the Navy will take advantage of every cent in every bombing dollar if the Air Development Squadron Five (VX-5) here has anything to do about it.

This flying brain trust of China Lake is charged with getting the utmost out of Navy weapons through bomb delivery tactics.

Commanded by Cdr. Don Loranger, their job is to develop and evaluate aircraft tactics, techniques, and procedures for the delivery of airborne nuclear and conventional weapons. When the Navy accepts a new weapon, the Chief of Naval Operations assigns it to the Operational Test and Evaluation Force for evaluation. Responsibility for the further appraisal of airborne attack weapons is then transferred to VX-5.

VX-5 develops day and night and all-weather techniques for the delivery of conventional and nuclear weapons by carrier-based airplanes.

As new techniques are proven and information compiled, it is promulgated in official reports to the Fleet squadrons to provide them with the information necessary to maintain the highest state of readiness.

VX-5 takes justifiable pride in having developed the loft bombing technique, the most effective technique yet devised which permits pilots to get away safely after releasing special weapons.

The maneuver involves a high-speed run-in toward the target, a pull-up at a pre-determined distance from the target, followed by an automatic bomb release at a prescribed angle, either low, medium or high. As the bomb is tossed toward the desired point of impact, the attack airplane continues up and over into a backward loop, recovering in the direction from which it came, and escaping the blast effect of the weapon.



CDR. DON LORANGER
Commanding Officer

This particular maneuver, a standard one-half-Cuban eight, is now affectionately called "the idiot loop" by the delivery pilots.

Other types of bombing techniques employed are: glide bombing (also developed and perfected by VX-5), toss bombing (a modified loft from altitude), dive bombing, and the BOAR (rocket assisted) delivery.

The information gained by these dedicated men with oxygen mask marks on their faces in exhaustive trials of new techniques becomes the bible of the carrier pilot.

Realizing their vital role in supplying the Fleet squadrons with the necessary "know how" of special weapons delivery, VX-5 continues to work energetically to meet this significant responsibility.

They write the instruction books for the Navy's hardware.

BHS Girls Tennis Team Undeclared

By MIKE TAYLOR
The Burros Girls tennis team went undefeated in the 1966 season after taking the singles and doubles championships in the pre-season Golden League Invitational Tennis Tournament at John F. Kennedy High School in Barstow.

The girls won all eight of their matches as they downed Trona, 7-1; Tehachapi, 6-0; Kern Valley, 5-1; Palmdale, 6-

1; Victor Valley, 8-1 and 4-3; and Kennedy, 6-3 and 4-3.

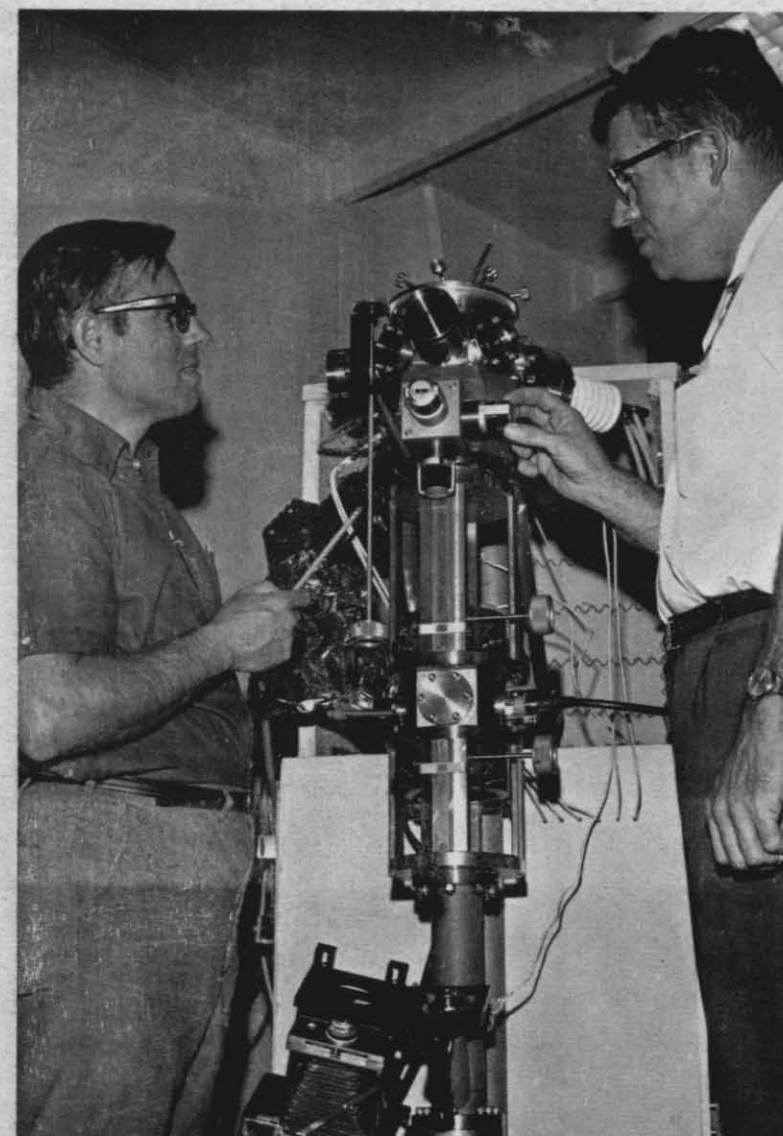
Of a possible 58 points for the season the Burros collected 46 as they held their opponents to 12 as they shut out two teams.

The top four girls in the singles were Chris Fath, Jane Winward, Betty Sutherland and Chris Yount. The first team in the doubles was Julie Campbell and Gina Hupka.



WHAT IS IT? — It's a green faced clown from Venus, of course! Skeeter, the Space Clown, disguised as earthman Jerome E. Rafalski of NAF, gives a traditional costume a space age twist with an antennae bearing helmet. Skeeter's specialty is transforming ordinary balloons into out-of-this-world animals for the delight of the kids. Skeeter will be at the NAF Target Dept., Red Bird Circus Display during Armed Forces Day and will have many surprises for the youngsters. There will also be a drone demonstration and display at the Target Dept. during the big event.

NOTS Has Vital Role in Weapons



ULTRA-HIGH VACUUM electron microscope is discussed by makers Dr. Ernst Bauer and George H. Turner of Code 50's Crystal Physics Br. "Bakeable" scope has magnetic and electrostatic lenses.

Many Weapons Begin at NOTS

This page shows just a few of the many weapons researched, developed and tested at NOTS, China Lake, in the past. Not only do the NOTS military and civilian personnel research, develop and test weapons for the Navy but for the other military services as well.



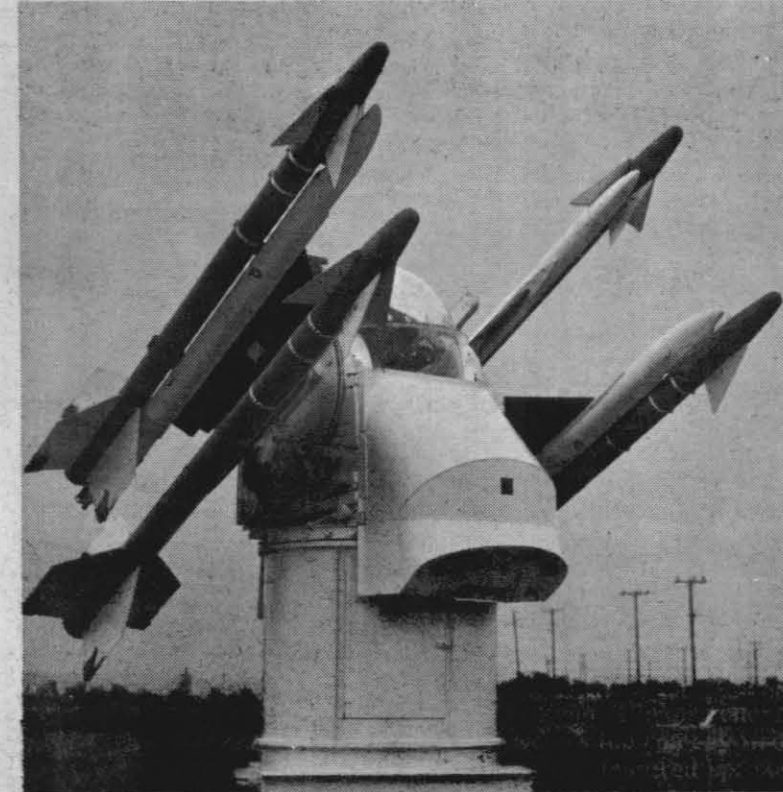
SNIPERSCOPE — A laser rangefinding sniperscope is nearly completed by Ted Bergman, physicist with Photophysics Br. of Code 30, after nearly two years effort. The new "eye" uses superconcentrated light and adds only 4 pounds to the rifle.



MICROMINIATURIZATION — The airborne XR-45 Multi-mode radar is shown installed in nose of former F3D light attack fighter. It's first such system with micro circuitry.



A4 SKYHAWK is retired from flight status but will be seen for a long, long time to come as part of a free-fall weapon exhibit. It was set up at the Station's Weapon Demonstration Building at the rear of Michelson Laboratory.



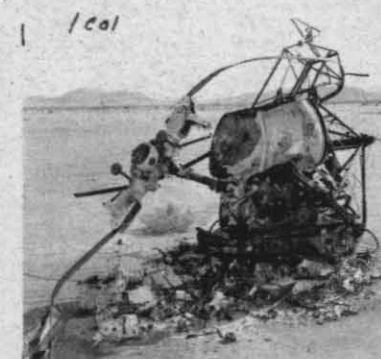
LETHAL CHAPARRAL has the deadly sting of four Sidewinders. The system is being developed here for the Army and will be mounted on the XM548 tracked vehicle.



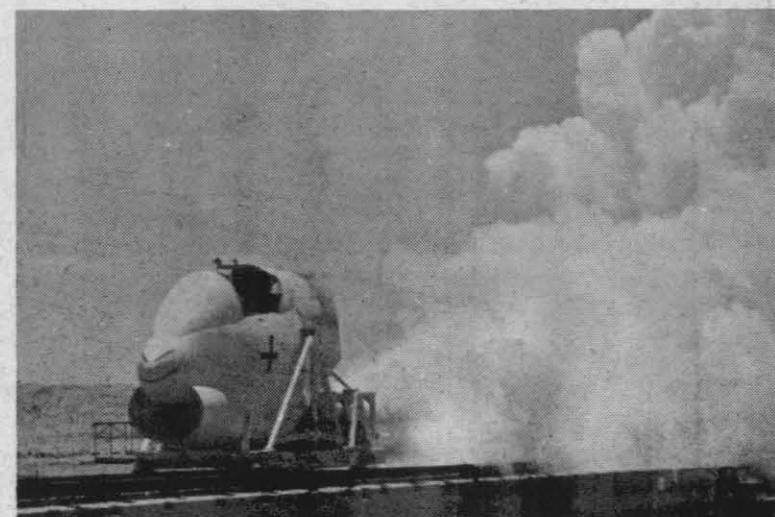
AIMING HIGH — This highly destructive infantryman's own anti-aircraft missile is called Redeye. See the picture below for dramatic results of one of the tests.



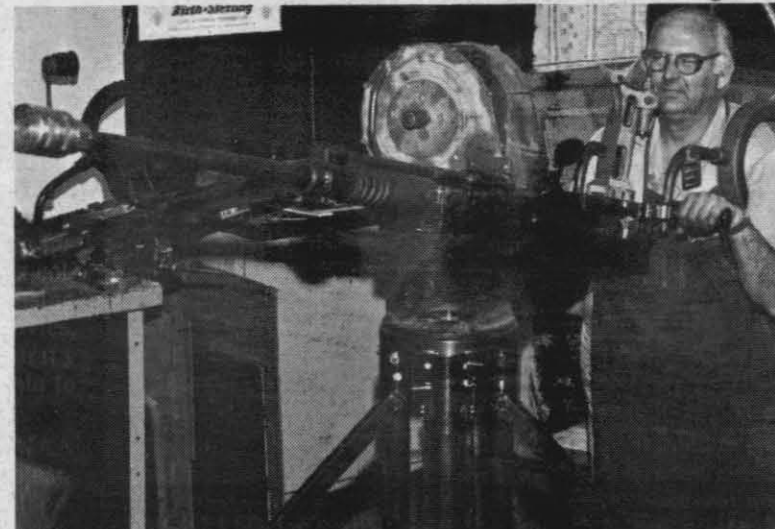
"LOADING" GUN—Mk 4 gun pod is rolled up plane at VX-5 for centerline attachment. Pod, loaded with ammo on deck, makes for a much faster flight operation.



AFTER HIT — Remains of drone H-3 helicopter, hit by Redeye missile. Other drones used in development and evaluation included Q2C and F-9 jets, KD2R prop drones and, in early phases, thermal devices on tethered balloons.



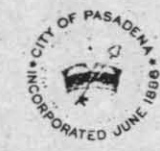
SNORT—The world's biggest track sled, tests jet-propelled ejection seat system at 820 miles-per-hour. The vehicle is credited with saving many lives and tax dollars.



REMODELED GUN — Al Kermode improved the feeder mechanism, designed special mount and folding stand—all from his head. Kermode's hobby is gunsmithing.

Michelson Lab is Researchers' Crucible

City of Pasadena



Commendation

WHEREAS, it is of vital interest to all citizens of the United States of America that we possess a sound national defense; and

WHEREAS, the United States Navy has continued to make a great contribution to the security of our nation and free men everywhere; and

WHEREAS, the United States Naval Ordnance Test Station with headquarters at China Lake, California has a very vital group stationed in the City of Pasadena and throughout the San Gabriel Valley known as NOTS Pasadena whose mission is "to conduct a program of research, analysis, development and test of underwater weapons and weapons systems;" and

WHEREAS, on the 7th day of April 1966 this group using a research vehicle developed by civilian employees of NOTS Pasadena did successfully assist in recovery of the Nuclear Bomb off the coast of Spain culminating an 80-day search and recovery operation; and

WHEREAS, the vehicle used was originally developed for the purpose of recovery of expended ordnance hardware for the U. S. Naval Ordnance Test Station with no anticipated use at greater than 2000 feet depths nor other than at the Naval Ordnance Test Station ranges; and

WHEREAS, the Naval Ordnance Test Station has achieved significant economy in the recovery of research and development ordnance and decreased the cost of research by an inestimable amount;

NOW, THEREFORE, be it resolved that the City of Pasadena gives this official commendation to CAPTAIN JOHN I. HARDY, Commander, U. S. Naval Ordnance Test Station, China Lake, California, and CAPTAIN G. H. LOWE, Officer in Charge, U. S. Naval Ordnance Test Station, Pasadena, California, and to all of the officers and men from this Station who participated in the successful search and recovery operations bringing credit to the United States Government, the United States Navy, and the City of Pasadena.

DATED: May 9, 1966

Boyd Maslin
Chairman of the Board of Directors
of the City of Pasadena

ATTEST: *Harriett C. Jenkins*
City Clerk

NOTS' R&D Center Boasts Wide New Vistas for Visitors

Visitors and newcomers to the Station will have the opportunity to inspect a variety of technical exhibits and static displays at the renowned Michelson Laboratory, focal point of the Naval Ordnance Test Station from 12:30 p.m. to 4:30 p.m. during Armed Forces Day.

The earthquake-resistant Michelson Lab is one of the world's most complete research and development centers. Its 10.3 acres of floor area are used for offices and laboratories for weapon development personnel; laboratories

of IBM and Analog Computers, digital controlled lathes in the Machine Shop, glass blowing, and film processing.

In addition, visitors will be able to view an A4 "Skyhawk" aircraft armed with typical NOTS weapons, a Range Tracking Camera display, a Model Ship display, a Safety display, and a Chemical Magic Show.

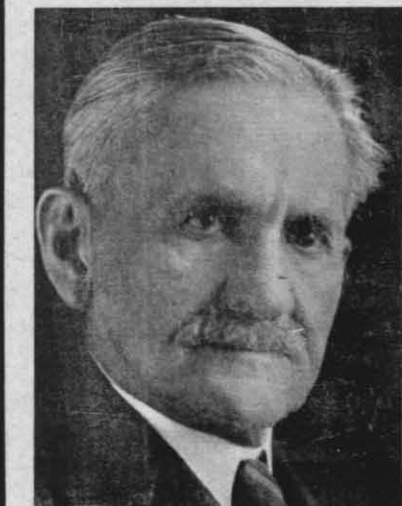
Michelson Exhibit
In the lobby of the north entrance of Michelson Laboratory visitors will have a chance to view the priceless Michelson Exhibit prepared by NOTS for the 50th Meeting of the Optical Society of America held in Washington, D.C., in March of this year.

Here in special display cases may be seen instruments used in interferometry experiments by America's first winner of the Nobel Prize for Physics.

Michelson was the first to determine the diameter of a star by direct measurement which was reported to the American Physical Society in 1920.

Many of the techniques used by Michelson 50 years ago are still in use today.

In the lobby of the main entrance of Michelson Laboratory may be seen the Nobel Prize certificate and numerous medals awarded to Michelson.



DR. A. A. MICHELSON

for research in chemistry and physics; a technical library; large machine shop; heat-treating shop and electroplating shop.

In addition, an environmental test chamber where conditions of climate and altitude may be simulated by varying temperature, humidity, and capable of detecting flaws in 5-inch steel, and computing equipment, including an IBM 709 digital computer will be on display.

The building has 8 wings and a main corridor 762 feet long, and it is named in honor of Albert Michelson, America's first winner of the Nobel Prize for physics.

In Michelson Laboratory visitors will see demonstrations

AF Day Program On Channel 4 Tonite

An NBC News special entitled "Anatomy of Defense" showing the roles of the seven unified American commands around the world and one specified command of U. S. military forces as they function under the U. S. Joint Chiefs of Staff will be shown tonight at 7:30 on Channel 4. NBC News correspondent Sander Vanocur narrates.

Zeno Klinker To Speak at AIAA Installation Dinner Wednesday

Zeno Klinker, one of Hollywood's top comedy writers, will be the featured speaker at the annual dinner meeting and installation of officers of the China Lake Section of the American Institute of Aeronautics and Astronautics on May 25 at the Commissioned Officers' Mess.

He will present "Higher'n a Kite," which is a movie depicting the funny side of man's conquest of air and space. Klinker provides a live commentary for the movie and it is reported to be hilarious.

The dinner will be at 7:30 p.m. and will be preceded by a social hour starting at 6:30 p.m.

Zeno Klinker first started his career as a musician with many big name orchestras and for most of the major motion picture studios in Hollywood where he also occasionally played small parts in pictures. His first venture at humor writing was writing greeting

cards and booklets.

He started writing for the Edgar Bergen - Charlie McCarthy show during its first year on the air and is now in his 24th year writing jokes for Charlie McCarthy and Mortimer Snerd. He has also written for motion pictures, television, and other comedians.

He began flying in his middle teens, and still does. He was an aerial motion picture cameraman during the early barnstorming and stunting days of aviation. This led to his starting his world-famous collection of rare and amusing historical aviation movies, which includes every funny happening from the Wrights to rockets.

All members of the AIAA are urged to attend the meeting, as well as guests and potential members. This is expected to be the outstanding AIAA event of the year. Tickets may be obtained from any section officer.



MICHELSON EXHIBIT—In the lobby of the north entrance of Michelson Laboratory, visitors will have a chance to view the priceless Michelson Exhibit prepared by NOTS for the 50th meeting of the Optical Society of America

held in Washington, D. C. last March. Albert Michelson, a graduate of Annapolis, received the first Nobel Prize in science given to an American, for achievements in optical physics.