

Gem, mineral show set at Rockhound Plaza this weekend

Visitors to NWC's 40th anniversary celebration can enjoy an added attraction as the Indian Wells Gem and Mineral Society presents its annual gem and mineral show on Saturday and Sunday, Nov. 5 and 6.

This year, events will take place at the new Rockhound Plaza at the China Lake Activities Center (old Station Restaurant) at the southwest corner of Blandy Avenue and Lauritsen Road. The gem and mineral show will be open from 1:30 to 5 p.m. on Saturday, Nov. 5, and from 8 a.m. to 5 p.m. on Sunday, Nov. 6.

The two-day schedule includes a field trip each day, demonstrations of working with rock and gemstone materials and a silent auction.

The field trip on Saturday will leave the Activity Center at 1:45 p.m. for nearby Rainbow Ledge, where colorful jasp-agate may be found. Sunday's destination will be Honey Hill, about 25 miles southeast of Ridgecrest, to look for samples of travertine onyx. Departure will be at 8:30 a.m.

Participants should bring a lunch and drinking water, and are reminded to check their vehicle gas tanks before leaving. Sturdy shoes and clothing should be worn, as well as a hat for protection from the sun.

At the Activity Center, visitors can tour the lapidary shop, where club members will demonstrate the use of various cutting and polishing equipment.

At various times throughout both days, Ed Albright will demonstrate techniques for faceting gemstones, and Ed Wagner will show visitors how to fashion obsidian into projectile points, in the ancient Indian manner.

An ever-popular feature of the gem and mineral show is the opportunity for visitors to purchase hollow geodes from the club's large stock and watch them cut in half by a craftsman using a huge diamond saw.

The silent auction will provide chance to obtain a bargain. Various mineral specimen and lapidary items will be auctioned off hourly, based upon the highest written bid for each item left at the display table.

In addition, there will be a wide selection of lapidary material, rocks, and minerals—from the local area and distant sites—available at the sales booths. Also for sale will be grab bag items for those with a sense of adventure, and homemade pies, cakes, cookies, sandwiches and refreshments.

Additional information can be obtained by calling Dick Fulmer, publicity chairman, at NWC ext. 7421.

'Powder puff' car care clinic scheduled by NEX

The Navy Exchange will sponsor a free "powder puff" car care clinic on Saturday, Nov. 12, beginning at 9 a.m., at the NEX gas station.

Stan Dewald, an expert mechanic, will teach the basics of preventive car maintenance to all Navy or dependents of active duty or retired military personnel who would like to unravel some of the mysteries of the combustion engine and other aspects of operating motor vehicles.

Reservations for the clinic may be made by calling the NEX automotive service center at 446-5044.

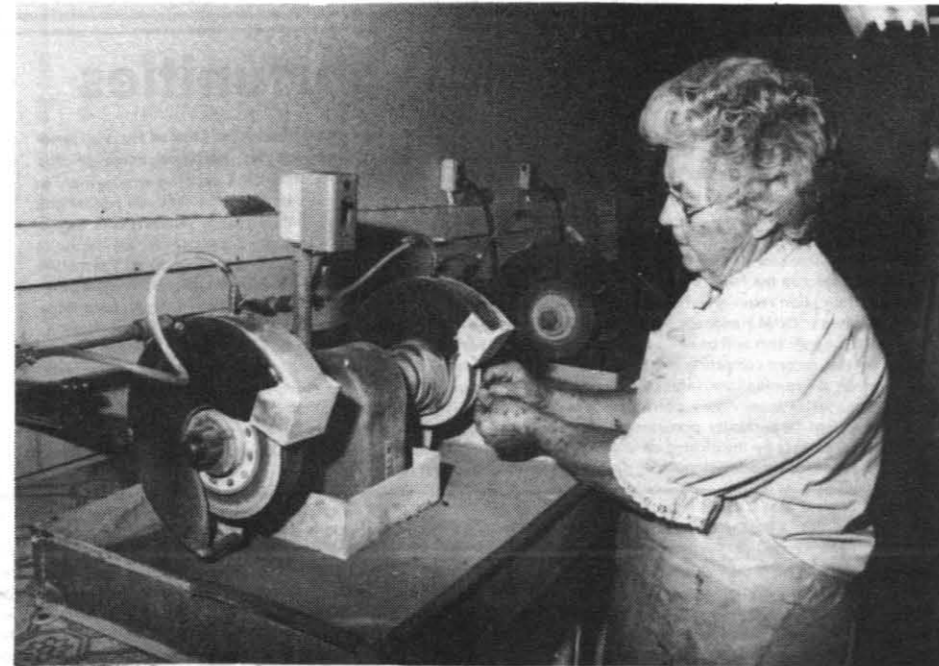


Weekend Roundup

The Enlisted Mess will be the setting for an NWC "old timers" social hour on Saturday, beginning at 2:30 p.m. This event, which is part of the 40th-anniversary celebration of the Naval Weapons Center, is open to everyone interested in seeing old friends or perhaps making some new ones, and joining in the fun of reminiscing about early days at NWC-NWC.

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"TNT," a popular local combo, will provide the entertainment this evening during a return engagement at the Chief Petty Officers' Club beginning at 8:30. Dinner, which will be served from 6 to 9 o'clock, will feature Icelandic cod and prime rib of beef along with other regular items on the menu.



FINISHING TOUCHES — Virginia Boyd, president of the Indian Wells Gem and Mineral Society, completes the grinding phase of work on an opal, in preparation for the society's annual Gem and Mineral Show on Nov. 5 and 6. Polished opals and other gemstones are used in jewelry sold by club craftsmen during the two-day event.

CLOTA production of 'King and I' opens tonight at BHS lecture ctr.

The Community Light Opera and Theater Association (CLOTA) will conclude its 1983 season by presenting the popular Rodgers and Hammerstein musical "The King and I."

Curtain time is 7:30 tonight at the Burroughs High School lecture center, and there will be repeat performances on Saturday and Sunday at the same time, as well as a matinee at 2:15 p.m. on Sunday.

CLOTA's version of "The King and I" also will be staged starting at 7:30 p.m. at the BHS lecture center on Nov. 10, 11 and 12.

This major production by CLOTA features a cast of 60 and is directed by Pat Schwarzbach. It is the story of Anna Leonowens a young widow in the mid-1860s, who, along with her son, Louis, travels to Bangkok to teach the children of the royal Siamese court.

The King of Siam, although schooled in the ancient traditions of his own culture, has concluded that his country must catch up with the rest of the world. He, himself, however, finds the transition difficult. In addition to teaching children, Anna becomes an adviser to the king and wins his respect.

Rebecca Ann Harris will be seen in the lead role of "Anna," while Sam Thompson, a Navy enlisted man, will portray the part of the King of Siam.

Others with principal roles, and their parts, are Karen Altieri, as "Lady Thiong;" Rick Vaughn, as the "Royal Prince;" and Kirk Roberts, a sixth grader at Las Flores School, will be seen as Anna's son, Louis.

In addition, Tricia Siegel appears as "Tuptin," and Bob Seely plays the part of her lover, "Lun Tha." Edward Torrence has the role of Sir Edward Ramsey; Daryl Vaughn is Capt. Orton; the part of the Prime Minister is played by Tim Varnhagen; Robert Joutet is "the interpreter," and Greg Cote will be seen as "Phra Alack."

Others in the cast enact the parts of female palace guards, royal wives, slaves,

priests, and royal children of the king.

Featured in the "Uncle Thomas Cabin Chorus" are Sharon Breitenstein, Kristin and Kerry Campbell, Jenny Joutet, Darci Parlet, Tara Sandberg, Charise Schultz, Cindy and Michele Scofield, and Marie Suprenant and 15 members of the Sierra Academy of Dance will perform the "Uncle Thomas Cabin Ballet."

Robert Seely is the music director for the CLOTA production of "The King and I," while the choreographer is Georgia Knutson, of the Sierra Academy of Dance, and Susan Cragin is the assistant director.

The busy costume directors for this production, whose 60 cast members each have at least two costume changes, are Vivian Childers and Jo Ann Hams. The work of property director is being handled by Sara Hettrick.

Tickets, which will be on sale at the BHS lecture center box office are priced at \$4.50 for general admission, and \$3.50 for students, enlisted military personnel and senior citizens.

Snack bar at airfield to be open on Saturdays

The NEX "Aerodome" snack bar will be open Saturdays from 8 a.m. to 2 p.m., beginning tomorrow. The Navy Exchange also will have two booths, featuring hotdogs, snacks, soft drinks and beer, set up at Armitage Field Saturday during NWC's 40th anniversary celebration.



NOVICE MODELS — Anna Smith, age 2, and Stephanie Smith, who is 4 years old, prepare to model girls' fall styles for the Nov. 8 fashion show presented by Women's Auxiliary of the Commissioned Officers' Mess (WACOM). The annual event, which will feature fall fashions from over 20 local merchants, will take place at the Enlisted Mess beginning with an 11 a.m. social hour.

Sigma Xi will hold fall dinner meeting on Wednesday night

The China Lake Chapter of the Research Society of America (Sigma Xi) will hold its fall dinner meeting next Wednesday, Nov. 9, at the Golden Frog restaurant in Ridgecrest, beginning with a no-host social hour at 6 p.m. The meeting is open to all interested persons.

New members will be inducted into Sigma Xi, and plans for the coming year will be announced.

Guest speaker of the evening will be Dr. Davis Whistler, curator of Vertebrate Paleontology of the Los Angeles County Museum. He will present a talk entitled "Microvertebrate Paleontology: A Small Look at the Fossil Record."

Dr. Whistler will discuss evolutionary changes observed through the study of microvertebrates and will describe the recent discoveries from examination of the Ricardo Formation in Red Rock Canyon.

A choice of either prime rib (\$14) or filet of sole (\$10.50) will be available for dinner. Tickets must be purchased by next Monday and are available from the following Sigma Xi members: Bob Dinger, Don Decker and Dave White (Code 381); Francis Canning and Gary Hewer (Code 391); Dan Gillespie (Code 387); Don Moore (Code 385); Dave White (Code 381); Andy Victor (Code 324); and Glenn Roquemore (Code 389).

3-D movie on Mars to be presented by astronomy group

In observance of the China Lake Astronomical Society's (CLAS) 25th anniversary, an unusual 23-minute, three-dimensional motion picture, "Mars in 3-D," will be shown at the Sylvia Winslow Gallery of the Maturango Museum on Tuesday at 7:30 p.m.

The film focuses on the technical and scientific achievements of NASA's 1976 Viking mission to the planet Mars.

Scenes in the motion picture include stereo photographs of Mars taken by the Viking orbiters, the operation of the Viking landers at the Jet Propulsion Laboratory, and the Martian surface in three dimensions at both landing sites.

Members of CLAS and their guests will preview the film at a dinner meeting of the society on Monday evening at 6:30 at Lee's Restaurant in Ridgecrest.

MOVIES

(G) ALL AGES ADMITTED
General Audiences
(PG) ALL AGES ADMITTED
Parental Guidance Suggested
(R) RESTRICTED
Under 17 requires accompanying
Parent or Adult Guardian

Regular starting time 7:00 p.m.

FRI., MON. NOV. 4 NOV. 7
"THE MAN WITH TWO BRAINS"
Starring
Steve Martin and Kathleen Turner
(Comedy, rated R, 88 min.)

SAT., WED. NOV. 5, NOV. 9
"TWILIGHT ZONE, THE MOVIE"
Starring
Vic Morrow and Kathleen Quinlan
(Action/drama, rated PG, 101 min.)

SUN. NOV. 6
"HIGH ROAD TO CHINA"
Starring
Tom Selleck and Bess Armstrong
(Adventure, rated PG, 105 min.)

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NAVAL WEAPONS CENTER
CHINA LAKE
CALIFORNIA

Everyone invited to attend

NWC opens gates tomorrow for 40th anniversary fete

Tomorrow promises to be a memorable day in the history of China Lake when the Naval Weapons Center's gates swing wide in invitation to everyone to join with local personnel in celebrating the 40th anniversary of the Navy's arrival and establishment in the Indian Wells Valley.

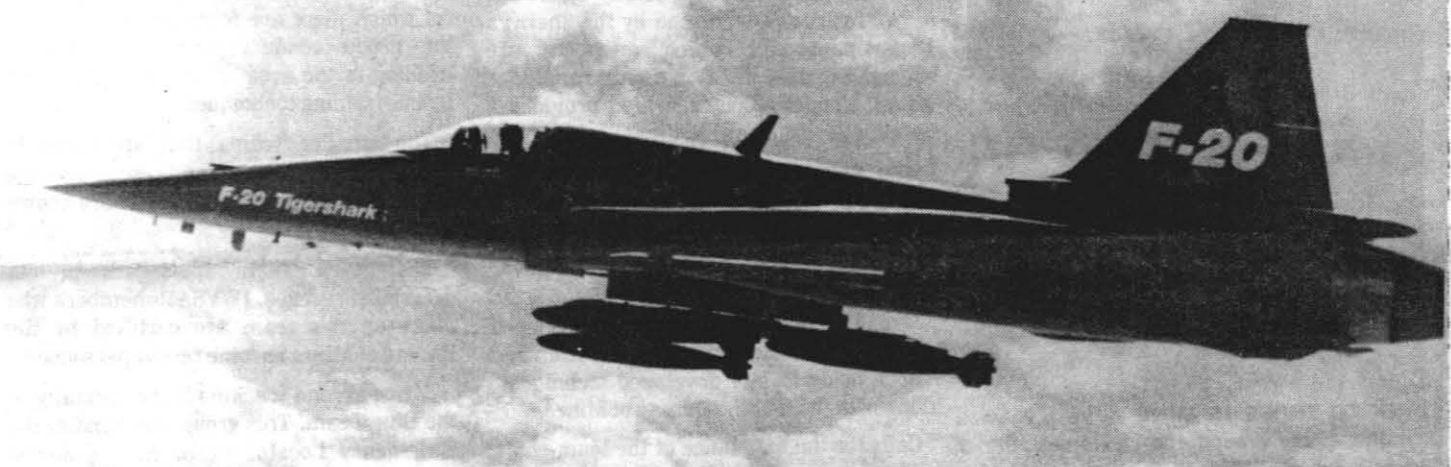
The day of patriotism and pride will be highlighted by a mammoth air show, a laboratory open house, an "old-timers'" gathering, and even a half-marathon for those whose tastes run to participating in athletic events.

The gates will open at 9 a.m. and visitors will move out to the airfield to enjoy seeing the more than 80 vintage and modern aircraft on display.

Of particular interest in the static displays will be a B-47 aircraft that is now being overhauled by Air Force personnel from Castle Air Force Base and local volunteers. When the overhaul is complete, the B-47 will be flown from China Lake to Merced, where it will be on display at the Castle Air Museum. (This Stratofortress will be the last of its kind ever to lift into the air when it leaves the Center's runways.)

Air Test and Evaluation Squadron Five will join with NWC in celebration when it opens its hangar — Hangar One — in conjunction with the anniversary celebration.

Inside Hangar 3 will be numerous displays from various Center organizations, such as the Aerosystems Department, as well as displays from community-based



THRILLING FLIGHT — Visitors to the NWC 40th anniversary air show will see the same spectacular demonstration of the flight of the F-20 Tigershark that was presented at the Paris Air Show. This will be the last public demonstration of the F-20.

modelers will display the technology of the radio-controlled models in a flight demonstration.

Outside the laboratory in the parking lot will be a display of the weapons for which the Center has gained world-wide fame. These have been refurbished by a group of volunteers — Navy Chiefs and friends — who have spent many of their off-duty hours to make the weapons look new again.

Inside Michelson Laboratory, visitors will have the choice of taking a 50- to 60-stop walking tour throughout the laboratory to see the wide range of exhibits that the Center's technical departments have arranged to showcase the technologies involved with the Center's work, or will be

able to visit various conference rooms to see films and groups of displays.

On exhibit inside the Management Center of Michelson Lab, for example, will be an NWC display that was one of more than 50 (mostly from private industry) that was prepared especially for the International Telemetering Conference held recently in San Diego.

(Center employees are reminded that this is not the time to take family members into their own work spaces. Other occasions can be arranged for such visits.)

On display inside the laboratory will be

(Continued on Page 3)

Naval Weapons Center 40th anniversary activities at a glance

- Start of OTHTC half-marathon run at Center gym 8:30 a.m.
- Gates open to public, static displays Armitage Airfield 9 a.m.
- Radio-controlled model aircraft flight demonstrations 10:30 a.m.
- Air show featuring modern, vintage aircraft begins 11 a.m.
- Michelson Laboratory tours begin 1:30 p.m.
- Old timers' reunion at Enlisted Mess 2:30 p.m.
- Tours end, Michelson Laboratory closed to public 4:30 p.m.



BREATHER — Lts. Stu Witt and Eric Neidlinger pause for a moment during the preparations that they are making for taking part in the air show that will be a highlight of the Center's 40th anniversary celebration tomorrow. — Photo by PHAN Rebecca Gill

IWV SAR Team maintains skills by regular practice

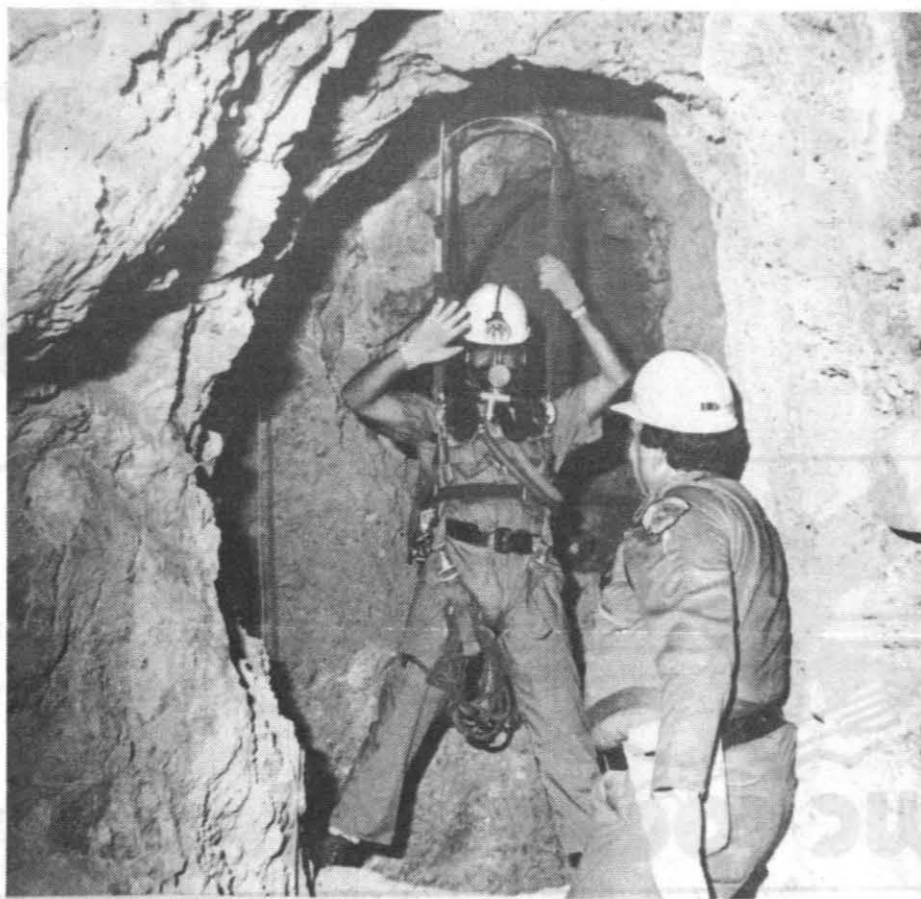
Desert rats frequently come across groups of men in bright red jumpsuits, operating a winch over what seems to be a mere hole in the ground.

From a distance, this may look unusual, but these men, who belong to a select group, are practicing techniques that may well save someone's life today or tomorrow.

The Indian Wells Valley Search and Rescue (SAR) Team is made up of a maximum of 30 multidisciplinary volunteers who are skilled in advanced first aid, tracking, surface and mine rescue, aircraft triangulation, wilderness survival, retrieval of contraband, and the use of oxygen breathing apparatus.

Thirty was set as the maximum number of volunteers so that the team will only consist of dedicated people who are actively involved with the group.

In order to join the team, a "prospective" member must attend meetings for six months. During this time, he must also apply to the Kern County Sheriff's Department to become a special deputy (and be accepted). At the end of the six-month period, in which he has been trained and briefed in IWVSAR techniques, the "prospective" member is voted on by the



EASY DOES IT — While Larry Thompson looks on, an IWVSAR team member passes a horizontal tunnel as he is being lowered deeper into a mine shaft.

more search and rescue equipment and to help pay for its maintenance as well.

The IWVSAR can be officially called out for a search and/or rescue by the Sheriff's Department (for which members are special deputies when on a call), or by the Naval Weapons Center, which provides a base for the group's activities.

The Kern County Sheriff's Department has approved the team's participation in searches and rescues outside the county in some other areas, such as Inyo, San Bernardino, and Los Angeles Counties.

Over the years, the team has developed relatively safe methods of mine search and rescue using locally developed techniques, along with those of the Bureau of Mines.

Calls for the assistance of the team come in about once a month. However, there have been as many as five requests per month for the team's participation in operations.



LINK TO THOSE IN MINE — Vern Fava remains above ground and converses with other team members in the mine to keep abreast of the progress being made.

This particular team was formed in 1963 to fill a need for a ground search and rescue unit in the eastern part of Kern County.

In 1966, training was started and equipment was constructed and procured (members also purchase much of the necessary equipment with their own personal funds) to make the team fully capable of functioning as a mine rescue unit for the Kern County Sheriff's Department.

The group is affiliated with the United Way, which provides monetary support, through designated public donations, for

Navy Hotline
for Fraud, Waste and Abuse
Call: (800) 522-3451 (toll free)
288-6743 (Autovon)
(202) 433-6743 (commercial)

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China Lake

<p>News Stories Photographs</p> <p>PHAN Rebecca Gill PHAN Greg Hogan Staff Photographers</p>	<p>deadline Tuesday, 4:30 p.m. Tuesday, 11:30 a.m.</p> <p>PHAN Greg Hogan Staff Photographers</p>
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maintenance of the IWVSAR equipment. This includes mine and safety equipment, a snowcat, and other vehicles. According to Louie Allen, public relations officer for the group, this particular team is one of the best equipped search and rescue outfits in the nation. This is largely due to the Navy's support of the organization.

The back-up team for the group is composed of members who can be called upon whenever they are needed. As members of the Green Team, they lend a helping hand to the other groups.

The entire IWVSAR Team, which consists mainly of Naval Weapons Center personnel ranging from PhDs to engineers and carpenters, shares a high level of mutual trust.

The camaraderie they all feel assists them in maintaining their goal, which is to aid the community in search and rescue efforts.

Walter Briggs, a left-handed passer, came off the bench to engineer the final score for Antelope Valley. On a third-down play at the AV 41, he broke loose for a gain of 43 yds, and a first down at the Burros 16.

The BHS defense refused to cave in, however, and (aided by a 5-yr. penalty against AV) dumped Briggs at the 17 on the third-down pass try. Barkate then booted the ball through the uprights from the BHS 25 for a field goal that gave the 'lopes their 33-10 final margin of victory.

The Burros fought back — putting together a drive that carried from their own 33 to the AV 20. Trying to elude a pass rusher, Means slipped and fell on a fourth down play, and the deepest penetration of AV territory by the Ridgecrest team in the fourth quarter ended with the 'lopes taking over the ball on their own 33.

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MINE RESCUE HEADGEAR — An IWVSAR member dons McCaa breathing apparatus, a closed-system rebreather. The team has 11 members certified to use this device. In addition, six are being qualified to train others in the use of this equipment.

— Photos by PHI Benita Tetreault

China Lakers attend Telemetering Conference

Naval Weapons Center employees and at least some former China Lakers played significant parts in the International Telemetering Conference held Oct. 24-27 at the Sheraton Harbor Island Hotel and Convention Center in San Diego.

Fran LaPierre, head of special projects in the Range Department's Range Instrumentation Division, was the technical program chairman for the conference and exhibit that was sponsored by the International Foundation for Telemetering and co-sponsored by the Instrument Society of America.

Keynote speaker at one of the luncheons during this 4-day event was Jerry Reed, former associate head of the NWC Range

Department, who is now the Technical Director for the Joint Cruise Missile Project.

The first speaker on the opening day of the conference was Cdr. John O. Creighton, a 1977 graduate of the U.S. Naval Academy, who was selected in January 1978 as an astronaut candidate by the National Aeronautics and Space Administration.

As a result of his naval air experience, and completion of a year-long training and evaluation conducted by NASA, Cdr. Creighton is qualified to pilot the Space Shuttle on a future mission.

The Naval Weapons Center was one of more than 50 organizations (mostly from private industry) that prepared technical exhibits for the conference, and Richard Boyd, head of the Range Department, was a speaker at the opening technical session.

Boyd presented a paper entitled "NWC Improvement and Modernization Overview, Highlighting the On-Axis Data System." Chairman of the panel of which Boyd was a member was Jack W. Eyer, Assistant Commander for Test and Evaluation, Naval Air Systems Command.

Eyer is an ex-China Laker as is William Hattabaugh, another speaker on this blue ribbon panel. Hattabaugh, who is now head of the Electronic Warfare Directorate at the Pacific Missile Test Center at Point Mugu, gave an overview of improvements and modernization at PMTC, concentrating on "The Extended Area Test System."

Other NWC employees who presented papers, at the International Telemetering Conference, and the subjects of their presentations, were: James Reiger and Harold Cummins,

"Support Package for PCM Telemetry Systems."

Larry Rollingson and Dean Diebel, "Warhead-Impact Telemetry System." T. F. Cox and Dr. M. H. Nichols (a consultant), "Conventional Coding-Viterbi Decoding of PCM-FM."

Rieger and Paul Woodworth presented papers on "New Digital-Input Transmitter for Missile Telemetry" and "Imageless Mixer for Data Translation."

An important part in making arrangements for the conference was handled by Jan Heitschmidt, division secretary in the Range Department's Computer Systems-Data Division, who served on the Technical Program Committee.

DIVINE SERVICES
PROTESTANT

Sunday Worship Service	1000
Sunday School (Annexes 1, 2 & 4)	0830
Bible Study (East Wing, Wednesdays)	1130-1230

ROMAN CATHOLIC

Sunday Mass	0830
Daily Mass (except Sunday)	1135
Confessions	1630-1700 Friday
	0745-0815 Sunday
Religious Education Classes (Annexes 1, 2 & 4)	1000 Sunday

JEWISH

Friday (East Wing)	1930
Sunday (Annex 95, as announced)	1930

Burros lose . . .

(Continued from Page 10)

The score remained at 17-10 in favor of the Antelopes until the first play of the fourth quarter. Halfback Dwight Lewis took a pitchout, veered his way past the initial line of defenders, and jittersbugged his way down the left sideline on a 54-yd. touchdown run. The PAT by Barkate increased the AV lead to 24-10 with just 12 sec. played in the fourth period.

Two plays later, Barkate intercepted a pass by Means and rambled 35 yds. to paydirt. Suddenly the 'lopes marginal lead of 17-10 had blossomed to 30-10.

The Burros fought back — putting together a drive that carried from their own 33 to the AV 20. Trying to elude a pass rusher, Means slipped and fell on a fourth down play, and the deepest penetration of AV territory by the Ridgecrest team in the fourth quarter ended with the 'lopes taking over the ball on their own 33.

Walter Briggs, a left-handed passer, came off the bench to engineer the final score for Antelope Valley. On a third-down play at the AV 41, he broke loose for a gain of 43 yds, and a first down at the Burros 16.

The BHS defense refused to cave in, however, and (aided by a 5-yr. penalty against AV) dumped Briggs at the 17 on the third-down pass try. Barkate then booted the ball through the uprights from the BHS 25 for a field goal that gave the 'lopes their 33-10 final margin of victory.

The Burros fought back — putting together a drive that carried from their own 33 to the AV 20. Trying to elude a pass rusher, Means slipped and fell on a fourth down play, and the deepest penetration of AV territory by the Ridgecrest team in the fourth quarter ended with the 'lopes taking over the ball on their own 33.

Registration still open for tomorrow's half marathon run

Runners who have not yet registered for the Over-the-Hill Track Club's (OTHTC) half marathon run tomorrow still have the opportunity to do so at the Center gym between 7 and 8:15 a.m. The race itself will begin at 8:30.

The \$11 entry fee for non-members of the OTHTC and \$9 for club members will include a long-sleeved T-shirt with the 40th anniversary logo for all entrants. Prizes will be awarded in a large number of categories.

Center residents and visitors are also reminded that the first part of the course will be run through streets in the residential area and that drivers need to be alert so that they will not endanger the runners or wheel chair entrants.

The streets that runners will traverse include Nimitz and Lexington Avenues, Blue Ridge Road, and Ticonderoga Avenue. The runners will complete their run at Armitage Airfield.

Race for Premier League tightens up as Sidewinders lose

The Raytheon Sidewinders, edged 13 points to 12 by the Sport Shack eagles, are still hanging onto a 15-point lead over the second place Thrifty Wash team, following Monday night's Premier (scratch) League competition at Hall Memorial Lanes.

While the Sidewinders were having a difficult time against the Sport Shack, the Thrifty Wash squad banged out a 19-6 win over Joseph's Italian Gardens.

High team game on Halloween night was the 1001 rolled by the Buggy Bath team, while Thrifty Wash put together the high team series of 2887.

Just two bowlers, Mike Dowd and Paul Cowan, topped the 600 series mark for the night with 3-game totals of 664 and 614, respectively.

Premier Leaguers who had single game scores of more than 220 were Dowd (257), Chris Peterson (223), Steve Zissos (229), and Cowan (222).

Promotional opportunities

Applications (Standard Form 171) should be put in the drop box at the Reception Desk of the Personnel Dept., 505 Blandly. Unless otherwise specified in an ad, applications for positions listed in this column will be accepted from current permanent NWC employees only. All others desiring employment at NWC may contact the Employment Wage & Classification Division, Code 092, Ext. 2264. Ads will run for one week and will close at 4:30 p.m. on the Friday following their appearance in this column, unless a later date is specified in the ad. Advertising positions in the Promotional Opportunities column does not preclude the use of alternative recruiting sources in filling these positions. The filling of these positions through Merit Promotion is subject to the requirements of the DoD Program for the Stability of Civilian Employment. The minimum qualification requirements for all GS positions and positions subject to the Demonstration Project are those defined in OPM Handbook X-118; those for all wage system positions are those defined in OPM Handbook X-118C. Applicants will be evaluated on the basis of experience, training, education, and awards as indicated in a medical examination, interviews, and supplemental qualifications requirements that may be necessary. For managerial/supervisory positions, consideration will be given to applicant's support of the Equal Employment Opportunity programs and objectives. Applicants must meet time in grade and qualifications requirements by the closing date of the ad. The Naval Weapons Center is an Equal Opportunity Employer: selections are made without discrimination for any nonmerit reason.

Announcement No. 34-172, Administrative Officer DA-341-172, PAC No. 832553, Code 42502 — This position is located in the Computer Systems/Data Division, Range Department. Incumbent will provide administrative support in division planning, budgeting, security, safety and personnel matters. Job Relevant Criteria: Ability to deal effectively with all levels of personnel; ability to communicate effectively, both orally and in writing; knowledge of current regulations and processes concerning building and facility security, as well as custody control; knowledge of NWC accounting and budgeting practices and procedures; knowledge of personnel regulations and procedures; ability to function independently, using own judgment in resolving problems and setting priorities; ability to meet the administrative needs of the division. This is a part time position.

Announcement No. 35-214, Security Assistant GS-080-57, PD 832540M, Code 35022 — This position is located in the Electronics Warfare Department, Classified Data Management Office. The incumbent will serve as the Department Security Coordinator, and Custody Control Point. will be responsible for identifying security problems and coordinating corrective measures, investigating security infractions and violations and recommending corrective measures; quality assurance evaluation of contract guard services; screening, distribution and control of all department secret documentation; maintaining and updating department's computerized documentation system; providing annual security final classification management issues. Job Relevant Criteria: Knowledge of document control and information management systems, techniques and procedures; knowledge of security policies and procedures relating to classification management, physical security of classified information and security violations; ability to work well across organizational lines; knowledge of Navy and NWC security regulations concerning document control, storage and ADP systems.

Announcement No. 26-192, Production Facilitating Clerk, GS 303.5, PD No. 812605, Code 2811 — This position is located in the Maintenance Control Division, Public Works Department. The incumbent is responsible for reception, maintenance and control of all work requests generated on the Center. The incumbent is also responsible for initial data entry and maintenance of work request information in the on line Public Works computer system. Maintains work request master file, assists in the training of employees in the use of a remote terminal and develops special reports for customers as requested. Job Relevant Criteria: Knowledge of the Public Works maintenance function; knowledge of the Public Works request processing system; ability to deal effectively with others; ability to operate data processing equipment sufficient to perform data entry. Status eligibles may apply.

Announcement No. 31-150, Interdisciplinary, Supervisory Physicist 1210, Supervisory Electronics Engineer 855; Supervisory Mathematician 1520; Supervisory Computer Scientist 1530; PAC No. 831848, DP-3, Code 3158 — This position is held by the Target Recognition Systems Branch, Targeting Division, Aircraft Weapons Integration Department. The Target Recognition Systems Branch provides applied research and engineering development in target recognition systems. Primary area of emphasis is development of automatic target classification techniques for airborne aircraft, air and air defense systems. Job Relevant Criteria: The incumbent must have experience in research and development work; a background in targeting signal processing or radar pattern recognition is highly desirable; experience in planning and marketing of new programs, to Washington sponsors, necessary; ability to communicate effectively both orally and in writing; ability to supervise and provide leadership to a multi disciplinary group of electronic engineers, physicists, mathematicians, and computer scientists. Previous applicants are being considered and need not reapply.

Announcement No. 35-214, Program Analyst/Administrative Officer, DA 345/341-273, PAC 833755, Code 3505 — This position is business manager for the SideARM Technical Management Office. SideARM is a relatively new Center program for the development of a defense suppression weapon system to be used by close air support aircraft and attack helicopters. The business manager for the program will be responsible for supporting the Technical Manager in the areas of financial management, program planning and contract administration. An eight million dollar plus contract will be let in the current fiscal year which will require substantial involvement on the part of the business manager. The incumbent is expected to develop an understanding of the technical aspects of the program in order to more fully participate. Job Relevant Criteria: Ability to plan, coordinate, schedule and monitor program tasks and budgets; ability to coordinate resource management, administrative policies, and safety and security programs; ability to interface successfully with personnel at all levels in DoD; ability to administer a multi-million dollar government contract with industry plus numerous smaller support contracts.

Announcement No. 90-034, Administrative Officer, DP-341-374, PAC No. 830553, Code 9322 — This position is the Support Administrator in the Office of the Support Directorate and functions as the principal management consultant/advisor to the Support Director/Deputy Director (02-02A). Incumbent identifies administrative and management problems within the scope of the Support Directorate and recommends alternatives; serves as the principal administrative management advisor for the Departments of the Directorate; represents the Directorate at meetings and serves on committees; directs and coordinates manpower and financial planning in behalf of the Directorate; and provides general management and administrative supervision as required. Job Relevant Criteria: Ability to exercise originality and initiative in solving management and general administrative problems related to support of Center management operations; ability to establish administrative and management policies and guidelines; ability to work effectively with

personnel on and off Center; ability to communicate effectively verbally and in writing.

Announcement No. 34-016, Library Technician, GS-1411-4/5, PD No. 833402N, Code 9431 — This position is located in the Information Services Branch, Library Division, Technical Information Department. The incumbent provides general circulation services with specific duties in the control and dissemination of the report collection. Circulation services include answering phones, routing calls, answering quick reference questions, checking out material and reshelving. Operates the Custody Control Point for secret documents in the Technical Library. Job Relevant Criteria: Knowledge of policies, regulations and instructions pertaining to the proper handling of secret material. Ability to communicate effectively both orally and in writing; familiarity with circulation functions; knowledge of the contents and specialized terminology of the book and report catalog. Promotion potential to GS-6.

Announcement No. 24-084, Clerk Typist, GS-322-3/4, PD No. 8324016N, Code 247 — Position is located in the Classification Program Office, of the Safety and Security Department. Incumbent receives and routes mail, types official correspondence, memoranda, reports, and other documents. Incumbent acts as receptionist, collects and prepares information for the supervisor's use, and establishes and maintains files. Incumbent maintains the contract logs and record cards which are used to protect contract security. Job Relevant Criteria: Ability to type accurately and efficiently; knowledge of the rules of grammar, punctuation, and spelling; ability to work independently; knowledge of Navy correspondence policies and procedures; knowledge of procedures for handling, storage and transmitting classified material; knowledge of Security Regulations, Manuals and Classification Guides. Announcements No. 38-817, Interdisciplinary, Supervisory Computer Scientists/Electronics Engineer/Physicist/Mathematician, DP-334,855,1310,1520, 1550-3/4, PAC No. 8338592, Code 3872 — This position is located in the Computer Services Branch, Computer Sciences Division of the Research Department. The Computer Services Branch is responsible for the acquisition, operation, and maintenance of automatic data processing (ADP) equipment and system software for the NWC Central Computing Facility (CCF). The incumbent will be head, System Software Section. The personnel of the System Software Section enhance and maintain all operating systems and related libraries and processors for a Sperry 1100 83, VAX 780, Honeywell Page Processing System, and COMP 80 System. The incumbent will give technical direction to the system software personnel, establish tasks, coordinate tasks with affected organization personnel, and provide configuration management system software releases and coordinate work with the vendors' system software project managers. Job Relevant Criteria: Ability to provide leadership to a multidisciplinary group of mathematicians and



NWC athletes vie in MDISL lifetime sports competition

Athletes representing the Naval Weapons Center earned second place for China Lake in the Mojave Desert Inter-service League (MDISL) lifetime sports competition held last Saturday at Edwards Air Force Base.

The Norton Air Force Base squad from San Bernardino racked up a total of 18 points to win this MDISL event, followed by NWC with 11 points for second place.

Others in the runner-up category, and their point totals, were Marine Corps Logistics Base at Barstow, 8 points for 3rd; Edwards AFB, 7 points for 4th; and March AFB, 3 points for fifth.

The lifetime sports competition included a 10-kilometer run for men and women, table tennis and billiards.

Mary Kilpatrick of China Lake placed second in the women's 10-K run in the time of 43 min., 15 sec. The winner was Debbie Heaton, of Norton AFB, who was clocked at 38:16.

In the men's 10-K run, Brice Hammerstein and Gil Cornell, of NWC, were fifth, and eighth, respectively, while Ruben Reyes, another local runner, was among the also-ran participants. There were more than 50 entrants in this event.

Bill Chan of China Lake placed second to Richard Davis of Norton AFB in the singles of the table tennis competition, and then teamed up with Carl Norland to win the table tennis doubles.

The billiards event was won by Robert Willetts, of the Barstow Marines. NWC personnel entered in this event were Al Hill and Dale Oran.

IWV Youth Football teams score 4-game sweep over Mojave

Last Saturday was a good day for all Indian Wells Valley teams involved in the Tri Valley Youth Football League as they made a clean sweep of all four opposing squads from Mojave.

The Chargers (Freshmen Division) extended their undefeated record to six wins in a row by posting a 32-0 shutout over Mojave.

In the Sophomore Division, the IWV Dolphins registered their second win of the season, this one by a score of 40-12 at the expense of their counterparts from Mojave.

The IWV Bears stayed in the race for the title in the Junior Division with a 22-0 shutout victory against Mojave and, in the Senior Division, the IWV Giants rambled to an 18-0 victory over the Mojave team.

The improved passing attack of the Mojave Senior Division gridders kept the pressure on the Giants, whose defense, led by the sparkling play of Chris Witty, Joe Norris, James Wiley, and Chris Guilmette, was up to the task cut for it.

Guilmette's interception and return of a pass by Mojave's Andy Noga for 15 yds. and a touchdown got the Giants on the scoreboard with the first of 6 points of the game.

Dann White also picked off a Mojave aerial in the second period of play, but the Giants were unable to capitalize on this turn over.

In the fourth quarter, Wiley intercepted another pass thrown by Noga and returned it 35 yds. for a touchdown for the Giants.

On offense, Kerry Ashley's running at fullback for the first time this season proved to be a good move as he gained more than 100 yds., and scored one touchdown.

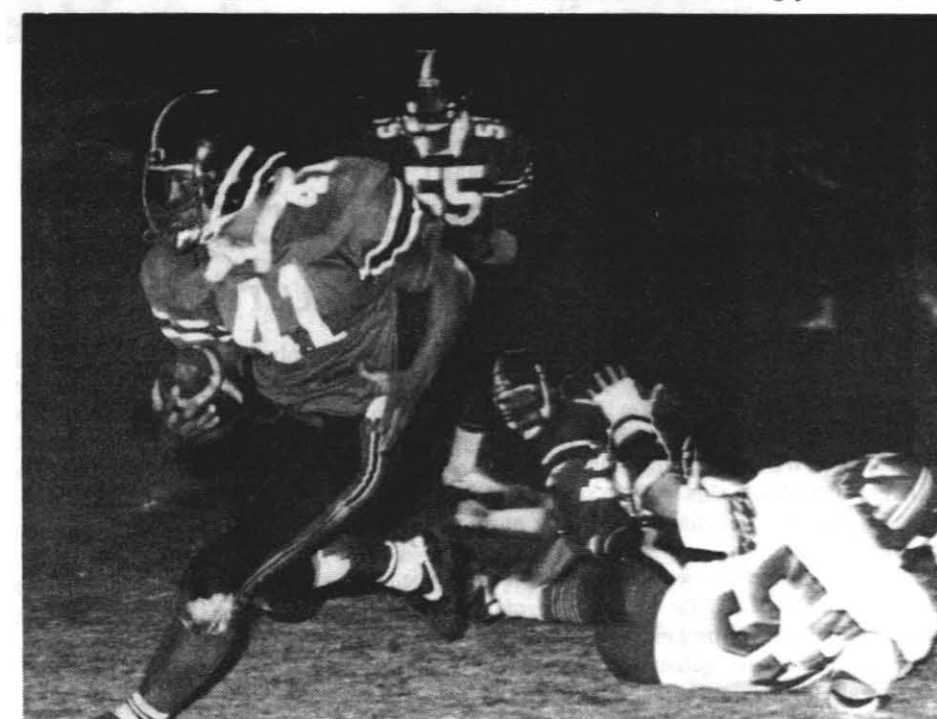
Burroughs gridders battered 33-10 by Antelopes

It's out of the frying pan and into the fire for the Burroughs High School varsity football team.

The Burros, knocked off 33-10 last Friday night by the Antelope Valley High School team from Lancaster, face an even more difficult assignment tonight when they travel to Canyon Country to take on the undefeated and league-leading Canyon Cowboys.

A preliminary game between the league-leading Burroughs High School sophomores and their rivals at Canyon High will get underway at 4:45 p.m., followed by the varsity contest at 7:30.

Highlight of the evening last Friday for Burroughs High students and football fans was the BHS sophomore squad's 19-2 win over their counterparts from Antelope



HARD MAN TO STOP—With blocking, often provided by his brother, Pete, an offensive guard, Randy Aguon (No. 41) has improved this season as a power runner with speed for the Burroughs High varsity football team. Flattened before he could get a chance to lay a hand on the ball carrier is Bob Sima (No. 53) a defensive lineman for the Antelope Valley team that overpowered the Burros 33-10 last Friday night. Randy Aguon is a triple-threat player, being a good pass receiver and a tower of strength on defense for the Burros as well. —Photo by PHAN Greg Hogan

Valley, and the crowning of Kim Braithwaite as Homecoming queen.

The final score of the Burros vs. AV varsity game is not indicative of how well the Ridgcrest team played throughout most of the game. The Burros scored first and led twice in the game.

BHS trailed by a single touchdown (17-10) when the 'lopes broke loose for two touchdowns in less than a minute of play in the fourth quarter to put the game on ice.

The offensive load for the Burros was carried by quarterback Danny Means and running back Randy Aguon.

The visitors from Lancaster took away a lot of the effectiveness of the Burros' passing game by continually forcing Means to scramble from a strong pass rush, and

tried (unsuccessfully) to hold down the power running of Randy Aguon.

Both Burros and AV put the "foot" back into football by trading field goals during the first half, which ended in a 3-3 tie.

A fumble recovery by Chad Charrasco for Burroughs gave the Ridgcrest team good field position at the AV 37 late in the first period of play. When the BHS attack stalled at the AV 15, Means booted a field goal that covered 37 yds. and split the uprights in the first minute of play in the second quarter.

The 'lopes first offensive threat of the game came later in the second period of play. It was launched by the interception of a pass by Means that gave AV the ball on the BHS 27 yd. line. An AV drive for a touchdown that moved the ball as deep as the BHS 9 was stymied when Tim Chantler dropped Coleman Lamont, AV quarterback, for a third-down loss back to the Burros' 20.

The Antelopes then called on fullback Harold Barkate, and he came through with a field goal that tied the score at 3-3, with nearly 5 min. left to play in the first half.

Early in the third quarter, the Burros got on the scoreboard next when a pass thrown by the AV quarterback ricocheted off one player and was picked off by Larry Jeffris, a defensive back for the Ridgcrest team.

With the ball at the AV 23, Means passed to Jeff Lillywhite for a gain of 18 and a first down at the 5, and Randy Aguon blasted through the line on the next play to score. Means added to the PAT that gave the Burros a 10-3 lead.

In a drive that covered 72 yds., the Antelopes matched that touchdown and tied the score at 10-10 with 7 min. left to play in the third quarter. Skip White ripped loose for a 58-yd jaunt to the BHS 1 yd. line and Coleman then plunged over for the tally. Barkate once again booted the PAT.

Next it was the 'lopes turn to capitalize on a break, which they did after Joe Monarrez picked off a pass thrown by Means and returned the ball to the BHS 14 yd. line. White scored two plays later, and Barkate booted the PAT — giving Antelope Valley a 17-10 lead halfway through the third period of play.

(Continued on Page 11)

Div. 5-6 teams toll up top-heavy soccer scores

Four games, all of them resulting in decisive wins by the victorious teams, highlighted last Saturday's competition in Division 5-6 of the Youth Soccer League.

The lowest scoring game was a 3-0 win posted by the Kicks over the Diplomats. In this contest, one goal each by Mark Frisbee, Tim Matson and Steve Mills accounted for all of the scoring, and a well-played game by goalie Jacob Gieger helped the Kicks preserve their shut-out victory.

Scores of other Division 5-6 games were Rogues 5, Tornados 0; Roughnecks 6, Sounders 1; and Whitecaps 6, Surf 0.

All-around good defensive play, coupled with a pair of goals by Brendan Ledden and one each by Armando Valdivia, Ricky Robinson and Jeff Flower enabled the Rogues to punch out a 5-0 win over the Tornados.

Ledden not only scored twice, but also was credited with two assists, as was Valdivia for the Rogues.

The Roughnecks found everything going their way in their lopsided win over the Sounders. Four goals by Kevin Collie paced the Roughnecks' offense. In addition, Chris Cleaves tallied twice for the Roughnecks on assists from Lamonte Dawson. The single goal for the Sounders was scored by Danny Hobson.

David Shumway's three goals were tops for the Whitecaps in their 6-0 win over the Surf. In addition, Steve Savage scored twice for the winners (one on an assist by David Shumway), and Jason Roberts, with an assist from Kelly Richardson, also got in on the Whitecaps' scoring parade.

Three shutout wins by final margins of 1-0, 2-0, and 3-0, and a lopsided 6-1 victory by the Sockers over the Aztecs went into the record books last Saturday during Youth Soccer League play between Division 3-4 teams.

The Sockers were led in the scoring

department by Chris Marshall, who tallied four goals (three unassisted and one on a penalty kick). In addition, the Sockers boosted their lead on one goal each by Chad Shedlock (unassisted), and Danny Moldenhauer, who scored on an assist by Chris Bachinski.

Most of the Sockers' goals were scored from close range — giving the Aztecs' goalie little chance to block the shot. A single goal by Mike Graves accounted for the Aztecs' only score.

A goal in the opening minute of play by Ryan Christensen was all the scoring the Strikers needed in their 1-0 win over the Blizzard. From that point on, the contest was a defensive struggle in which Scott Becker and Jonathan Rae were the standouts for the Strikers with their ball handling and passing.

After a scoreless first half, the Drillers broke through for two goals by Michael Kinne, assisted by Jeremy Pierce and Alex Valdivia, to post a 2-0 win over the Cosmos.

The Lancers came out on top 3-0 last Saturday in their game with the Earth-

Results reported of game bird hunt on NWC ranges

A total of 569 hunters entered the Center's north ranges last weekend in pursuit of chukar and quail, and the majority of them returned home with a bird.

Of the birds bagged, 226 were chukar, 334 were mountain quail, and 35 were valley quail.

In addition, 9 cottontail rabbits also came home in game bags to enter someone's freezer.

While last weekend's hunt was not as successful as that on the previous weekend, when hunters averaged 1.35 birds each, this was expected because the birds would be more wary after they had experienced being hunted.

quakes. Pat Rindt opened the scoring in the first period, and Charles Eberhart added a second goal a few moments later for the Lancers.

Strong midfield play by the Lancers helped them keep the ball in their opponents' end of the field during most of the game with the Earthquakes. The scoring in this tilt was topped off in the fourth period, when Chris Cox, assisted by Amy Edward, made it a 3-0 ball game in favor of the Lancers.

Three evenly-matched games and one runaway took place as teams in Division 1-2 of the Youth Soccer League mixed it up last Saturday.

The Eagles overwhelmed the Express 4-0 on two goals by Bobby Shumway and one each by Jason Maxwell and Mike Fredrick. Two first-half goals by Shumway, assisted by Sean Waldron, got the Eagles off to a halftime lead of 2-0, and the Birds were in command for the remainder of the game.

Scores of other Division 1-2 games were Owls 1, Apollos 0; while the Rowdies and Cobras battled to a 1-1 tie, and the Fury vs. Chiefs contest ended in a scoreless draw.

In an evenly-matched, hard-fought game, the Owls held onto a 1-0 lead, after getting a goal by Tiffany Marshall, to defeat the Apollos.

In another defensive struggle, Isaac Curran passed the ball to Scott Foremaster for the Cobras' only score, which was matched by the solo tally of Chris Thornberry for the Rowdies as these two teams were forced to settle for a 1-1 tie.

Although neither team was able to score, the Fury played an aggressive first half, while the Chiefs did a better job on offense in the final two periods of play. Both teams were close, but couldn't get the ball into their opponents' goal during this scoreless tie contest.

Congratulatory messages

On NWC 40th anniversary

The Naval Weapons Center's 40th Anniversary, which will be celebrated by the Center on 5 November 1983, has been preceded by a record of achievements broad in concept and vast in scope. From the austere beginning in November 1943 on the desert floor of the Indian Wells Valley, there has grown a laboratory complex, airfield, system of ranges and support facilities that, for the purpose for which they are intended, are second to none in the world.

The precedents of the past now offer a challenge to the future that, I am confident, will be met as the Naval Weapons Center continues to excel in its role as the Navy's principal research, development, test and evaluation center for air warfare and missile weapons systems, and also as the national range/facility for parachute test and evaluation.

All military personnel in the Fleet, the Marines, and our free world allies whose security in many areas depends on the work done at China Lake, bear witness to the effectiveness of the effort put forth by the military and civilian men and women at NWC.

NWC's resounding success in providing our country's military forces with state-of-the-art capabilities that are on the cutting edge of countless areas of technology has earned worldwide recognition of the Naval Weapons Center's ingenuity and technical expertise.

For the dedication and perseverance of the scientists, engineers, technicians, support employees, and military personnel who have shared in bringing all of this about, I offer my sincere congratulations for a job well done.

Admiral S. A. White
Chief of Naval Material

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Forty short years ago nothing but the wind, the sand, and an occasional coyote disturbed the stillness of the desert at China Lake and the land seemed almost worthless. Today that land and the facilities it contains are literally beyond price to the nation.

More valuable than the land and all its facilities, however, have been the dedicated efforts of the China Lake family of men and women, military and civilian, to keep this nation free.

On behalf of the China Lake team, military and civilian, we would like to welcome everyone to see the results of that teamwork during the celebration planned for tomorrow and in looking forward to making the next 40 years as productive as the last four decades have been.

Capt. K. A. Dickerson, USN
Commander, Naval Weapons Center

B. W. Hays
NWC Technical Director

Combined Fed'l Campaign now underway at NWC

The Combined Federal Campaign has begun for this year and will run during the month of November. No extension of time can be granted beyond Nov. 30 because of Office of Personnel Management regulations.

Key personnel attending the kickoff meeting Monday that was chaired by Loretta King, Assistant Public Affairs Officer, and LCDR. Jim Tankersley, head of the Aircraft Support Division in the Aircraft Department, were told by Capt. Scotty Vaught, Chief Staff Officer, that "The CFC is really a biggie. It's one of the neatest things that we can do for our people."

Through this "Once for All" campaign, federal employees, both civilian and military, can designate their gifts to 127 agencies covering a wide spectrum of human needs, and can do so either by payroll deduction or by making a cash or check donation.

Because the campaign covers so many agencies, the costs of the campaign are spread throughout all groups, and more of the donor's money actually goes to meet human needs. Costs of running the CFC generally run less than 5 percent of the moneys donated.

Those who wish to take part by donating can choose any one of the 127 agencies represented, or can choose a group of agencies to support.

Campaign groups this year include the United Way of Indian Wells Valley and its member agencies, local and other; the National Health Agencies; International Service Agencies; or National Service Agencies. Anyone wishing to contribute to either the Women's Center-High Desert or the American Cancer Society must designate these agencies separately.



because they are not included in any agency groupings.

During the next two weeks, the key personnel in each department will arrange for meetings at which a CFC film entitled "What I Did for Love" can be shown and personnel can ask any questions that they may have. Each week the contributions will be gathered and turned in by the close of business on Thursday afternoons.

Key personnel, and the departments that they represent, are: for Codes 00, 01, 02, and 08, Cy Ebersberger, NWC ext. 3245; Code 12, John Webb, NWC ext. 3032; Code 21, Ltjg. Kris Gorman, NWC ext. 2165; Code 22, Phyllis McKinney, NWC ext. 3387; Code 23, HMCS Albert Brandand, NWC ext. 2911; Code 24, Chuck Wilhite, NWC ext. 2315; Code 25, Helen Cropper, NWC ext. 3648; and Code



WELCOME MAT IS OUT — Gery Hucek (in center), representing the Ridgcrest Chamber of Commerce, presents tickets to this evening's "Salute to the Navy" to Capt. K. A. Dickerson, NWC Commander, and to B. W. Hays (at right), NWC Technical Director. This gala event is planned to set a festive mood for tomorrow's observance of the 40th anniversary of the Naval Weapons Center. — Photo by PHAN Greg Hogan

Large crowd to attend tonight's 'Salute to Navy' in Ridgcrest

More than 1,200 advance reservations have been received for the "Salute to the Navy" sponsored by the Ridgcrest Chamber of Commerce Military Affairs Committee that will be held tonight at Joshua Hall on the Desert Empire Fairgrounds in Ridgcrest.

The festivities will begin with a social hour at 6:30 p.m. At 7:30, "Port and Starboard," a Navy band from San Diego will begin to play, preceding a call to order by Gery Hucek, general chairman of the event, at 8 p.m.

The Sea Cadets, sponsored by the Navy League of the Indian Wells Valley, will present the American flag, followed by an invocation by Monsignor Kevin Cleary of St.

Ann's Parish in Ridgcrest. Prominent out-of-town guests will be introduced by Hucek, who will then introduce the master of ceremonies for the evening, movie and television star Cliff Robertson.

Short presentations will be made by Mike Mower, president of the Ridgcrest Chamber of Commerce; Ron Cheshire, Mayor of Ridgcrest; Gene Tackett, Kern County Supervisor for the 1st District; the Honorable Phil Wyman, Assemblyman for the 34th District; and the Honorable Bill Thomas who represents the 20th Congressional District.

Buzz Aldrin, a former astronaut, will make some short comments before Bob Hillyer, Director of Navy Laboratories, finishes the presentations.

A highlight of the evening will be remarks by Melvin R. Paisley, Assistant Secretary of the Navy (Research, Engineering and Systems), who will be next on the program. Responding to Secretary Paisley's remarks will be Burrell W. Hays, NWC Technical Director, and Capt. K.A. Dickerson, NWC Commander. The Skipper will also introduce a multimedia presentation, "A Diamond in the Rough," which is narrated by Dr. Peggy Rogers, one of the Center's most noted administrators before her retirement.

Following the benediction by Monsignor Cleary, the Navy band will strike up once more for an evening of dancing to finish the festivities.

40th anniversary . . .

(Continued from Page 1)

large exhibits — such as the Center's altitude chamber and the new anechoic chamber at the Harpoon laboratory — and small ones.

Visitors will be able to watch a glass blower create the many shapes called for by scientists, computer-aided manufacturing in the machine shop, as well as interactive graphics displays and other computer demonstrations and a variety of other displays and exhibits to suit all tastes and interests.

A highlight of the presentations will be a videotaped discussion of the Soviet military threat that will show Gerry Schiefer, Laboratory Director and Deputy Technical Director, and Jack Latimer, of the Weapons Planning Group, talking about Russian potential.

At 2:30 p.m., old timers (and those who have friends among the old timers) will head for the Enlisted Mess where they will have the opportunity to reminisce with their friends and relive some of the exciting days of China Lake's 40-year history.

By the time that the gates once more close to visitors at 4:30 p.m., all those who have joined to celebrate this 40th anniversary will have gained new appreciation for the wide range and importance to the Fleet and the nation of the work of the Naval Weapons Center.

40TH ANNIVERSARY REFLECTIONS

When the Navy established what became its largest land facility at China Lake 40 years ago, needs and technology seemed simple and straightforward; land, and a lot of it; instrumentation (with many of the cameras and other equipment finally developed in-house); and a military-civilian team working together to meet the requirements of the Fleet.

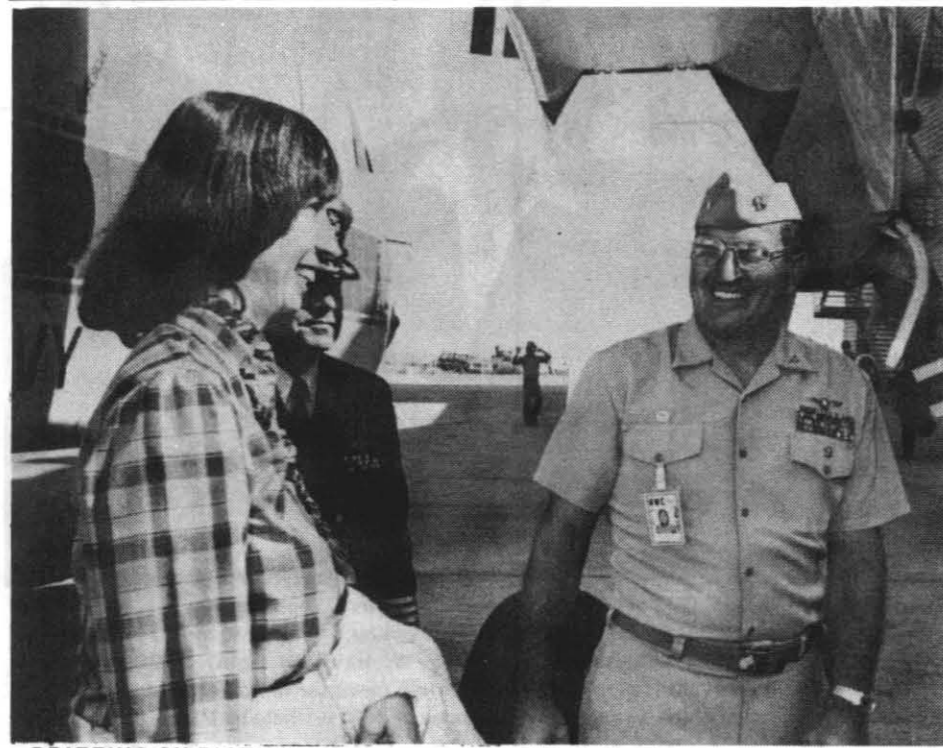
Technology today has become infinitely more complex — NWC scientists routinely employ tools that had not been dreamed of then such as lasers, complexes of computers, microcircuitry, metric video. The next 40 years will undoubtedly produce another technology explosion in other lines as yet unknown.

The Center occupies one-third of the Navy's total real estate, but even this large amount of land is not enough for some of the tests required for new missiles.

More than 2,000 structures dot the land; a vigorous building program will enable many of these to be replaced by new energy-efficient buildings such as the Engineering Laboratory for Production Support that will bring together widely scattered functions for better use of personnel and equipment.

Range and instrumentation modernization is on-going, with plans already being made to take the Center into the 21st century.

The details of what will occur in the next 40 years at this desert Navy base lie in the future, but the direction is clear: the military-civilian team at NWC will continue to make vital and massive contributions to the technology that keeps this nation strong and free.



BRIEFING ON BIGEYE — Congresswoman Bobbi Fielder (at left), Representative of the 21st District in California, receives a "welcome aboard" greeting from Capt. K. A. Dickerson, NWC Commander, upon her recent arrival with a sizable group that traveled here from the nation's capital for a briefing on Bigeye, a lethal binary chemical weapon. Among the visitors were members of the Armed Services Committee and the Budget Committee of the House of Representatives, their staff members and legal assistants, as well as officials of the Marquardt Corp., the prime development contractor on Bigeye. They were briefed by Capt. Dickerson and B. W. Hays, NWC Technical Director, and also saw video tapes of Bigeye tests.

Military personnel can apply for 1-yr. extensions before rotation

Voluntary one-year extensions of their tour of duty are now being solicited from military personnel whose periodic rotation date (PRD) is between Jan. 1 and Sept. 30, 1984.

Only a short time remains to do this, however, according to AQC Tim Nixon, Command Career Counselor, who stated that enlisted military personnel must submit such a request via the chain of command to the Military Administration Department no later than Thursday, Nov. 10.

If such requests are approved, enlisted military personnel must have or incur obligated service for the duration of the one-year extension.

Military officers desiring to extend their

User survey planned regarding new information system at NWC

The best way to design a useful system is to ask the users (or potential users) what they need, what they would like to have, and what they do or do not like about any system currently in operation.

Since this maxim is just as true for any Information System as for any other system — if not more so — a stratified random sample of personnel in all departments on board is going to be asked what they would like to have in an information system.

Center management is encouraging everyone selected to take part. In order to design the kind of information system that will enable all Center employees to do their jobs at their desks, communicate with each other, and tap into the various corporate data bases or other computing resources that they may need, widespread participation in the survey is desirable so that

MIKE'S LAB by Bill Erwin



MILCON bill signed; ads out for bids on 3 new Center buildings

Action taken recently by President Ronald Reagan has cleared the way for the Western Division of the Naval Facilities Engineering Command to advertise for bids on three major NWC construction projects totaling \$31.1 million.

The President signed both the Military Construction Act of 1984 (PL 98-115) and the Military Appropriation Construction Act of 1984 (PL 98-116).

Funds totalling \$12,240,000 were appropriated for a Radiographic Inspection Facility. Plans call for erecting a one-story building (13,200 sq. ft.) with an earthen barricade at the radiographic (X-ray) test bay.

The facility will be constructed of explosion-proof materials and contain shielding for radiographics and other non-destructive type tests of Trident II strategic rocket motors in a vertical orientation.

The interior of the building will consist of an X-ray test bay, control room, X-ray processing room, and office space to house six operating personnel.

Once the Radiographic Inspection Facility has been built and equipped, X-ray examinations of motor propellant to liner bond, and liner bond to motor case interface will be conducted using a linear accelerator.

Another \$12,050,000 has been appropriated for a Trident II Motor Test Facility. This facility will be used to conduct static test firings of the first, second and third stage rocket motors of the Trident II missile at varying attitudes — from vertical (nose down) to horizontal, for simulating all possible flight orientations.

The Trident II Motor Test Facility also will include a Gantry crane capable of lifting and positioning motors weighing up to 130,000 lb.; a movable temperature conditioning building, which will allow conditioning of the motor prior to firing; a water deluge system for protection of the test stand in the event of a motor malfunction; and a 1,330 sq. ft. underground reinforced concrete bunker to house electrical

and instrumentation equipment.

The Naval Weapons Center has the only Navy test facilities with the capability of firing large strategic missile motors (motors that deliver over 100,000 lb. of thrust), and the only known facilities in the United States where high-hazard tests of these motors (when the possibility of a detonation exists) can be conducted.

This new missile motor test facility will provide a unique capability within the U.S. for static firing Trident II motors in their anticipated flight attitude. These static test firings are required to evaluate motor performance vs. design goals during the Trident II production phase.

The third major construction project for which funding has been approved is a centralized Instrumentation Development and Support Facility that is to be located adjacent to the Range Center (RCC).

The sum of \$6,810,000 has been earmarked for this complex of two single-story buildings that will be 31,000 sq. ft. in size and be used in direct support of the RCC, which conducts between 2,500 and 3,000 tests events annually.

The Instrumentation Development Support Facility will house engineers and technicians responsible for the "cradle-to-grave" development, prototype fabrication, operational support and maintenance of all instrumentation systems on the Naval Weapons Center's northern range complex.

Employees who will occupy the new facility now work in more than 40 widely dispersed, substandard and inadequate facilities that are scattered throughout the northern range area.

Construction of this facility ultimately will save taxpayers millions of dollars by reducing building maintenance and operating costs, reducing the number of weapons test delays and cancellations, and by significantly improving the productivity of personnel who will be housed in these two new buildings.

China Lake Police reports . . .

China Lake police are investigating a fight that broke out shortly after 1 a.m. last Saturday at the Enlisted Mess between a civilian patron and a military man. The latter was transported to the Branch Medical Clinic for treatment of facial abrasions.

HAIR CUT CAUSES PROBLEM
A 14-year-old student at Murray Junior High School faces a charge of battery for allegedly using a razor blade to cut the hair of a fellow student against his will.

The incident occurred on the Murray School campus at 11:15 a.m. on Thursday, Oct. 27. The China Lake police report on this matter has been turned over to Kern County Juvenile Probation Department authorities.

SCHOOL CAMPUS 'DECORATED'
China Lake police responded to a call for assistance from the Ridgecrest Police Department, who sought help on Thursday afternoon of last week in handling a sizable group of young people enjoying themselves using toilet paper for some off-beat

decorations at Burroughs High School during Homecoming Week.

ASSISTANCE RENDERED
Outside agency assistance was provided on Thursday of last week by China Lake police to the Ridgecrest office of the Kern County Sheriff's Department. The assistance took the form of administering an alcohol analyzer test to a motorist suspected of driving under the influence.

WAREHOUSE BURGLARY REPORTED
A burglary, believed to have occurred some time during the previous weekend, was reported shortly before 6 p.m. last Monday to China Lake police.

The break-in occurred at the housing appliance warehouse in the Public Works Department compound. The door was kicked in, causing \$5 damage, but nothing was taken.

EQUIPMENT STOLEN
On Tuesday morning, employees of the A.V. Fence Co. reported that persons unknown had broken into the company's compound located west of Moyer and Kimball and removed an acetylene tank, two hoses, and a torch. Value of the items that were stolen is \$400.

SHOPLIFTER CAUGHT
A youthful shoplifter was apprehended last Friday afternoon at the Navy Exchange-operated Toyland.

The boy, age 11, was detained by NWC personnel, and then turned over to China Lake police before being released to his parents. He will be counseled by the China Lake Police Division's juvenile officer.

FALSE ALARM SET OFF
An unknown person set off a fire alarm box shortly before 8 a.m. Monday at Richmond Elementary School. The cost of rolling out Fire Division equipment and other emergency personnel for this wasted effort is \$200.

Timecards must be in early next week because of holiday

All personnel who are responsible for the submission of timecards are reminded that because of the Veterans Day holiday on Friday, Nov. 11, timecards for the regular workweek ending on Nov. 12 must be turned in by 4:30 p.m. next Wednesday, Nov. 9.

This is necessary in order to meet the normal payday of Nov. 18. No timecards are to be held out, since failure to provide the Payroll Office with an accurate timecard by the Nov. 9 deadline may result in a delay in pay for employees.

In order to meet the Nov. 9 deadline, it will be necessary for departments to project or estimate what will occur on Thursday, Friday, and Saturday, Nov. 10, 11 and 12, and submit each employees' timecard by 4:30 p.m. next Wednesday, Nov. 9.

On Thursday, Nov. 10, if it is discovered that the timecard projections are incorrect as submitted, the errors can be corrected by submitting a revised timecard (annotated as such) between 7:30 and 9:30 a.m. on Thursday, Nov. 10.

Any timecard errors discovered after Nov. 10 should be corrected by sending a memorandum to the Payroll Office, Code 08641, the following week.

Any overtime worked on Wednesday, Thursday, Friday, and Saturday, Nov. 9 through 12, should be submitted on a supplemental timecard for payment the subsequent pay period.

Hrs. of operation revised at airfield barber shop

The Navy Exchange barber shop at Armitage Airfield has new hours of operation, which became effective last week. The shop is open Monday through Thursday from 7:30 a.m. to 4 p.m., and on Friday from 8:30 to 2 p.m. Appointments will be taken if made at least 24 hours in advance by calling NWC ext. 5346.



On Aug. 26 between 7:30 a.m. and 5:30 p.m., the Neil LaFortune residence on Brown Road was burglarized, and tools, jewelry and firearms valued at \$2,000 were taken. Reward for Secret Witness: \$100.

On either Sept. 13 or 14, vandals tore sinks and toilets at the Inyokern Park restrooms loose from the walls, causing damage set at \$500. Reward for Secret Witness: \$50.

On Aug. 29, the Hildreth Motor Co. was broken into and \$100 was taken from a locked safe. The IWV Water District Office was burglarized on Sept. 9, and \$2,000 was removed from a locked safe. Reward for Secret Witness: \$200.

On Oct. 20, at 11 a.m. a nude male subject was seen jogging in the area of Graaf and Brady Streets in Ridgecrest. He attempted to accost a female jogger. She described him as a white male American, aged 25 to 30, about 5 ft. 10 inches, weighing about 160 lbs., and with dark brown hair. Reward for Secret Witness: \$100.

On Oct. 17, at 8:15 p.m., an air compressor was stolen from a pickup truck on Weiman St. The suspect vehicle was a newer model, dark-colored, full-size stepside pickup truck. Reward for Secret Witness: \$50.

On Oct. 13, a construction transit was taken from the rear of a pickup truck parked at 1030 N. Norma St. This instrument is commonly described as a surveyor's telescope. The missing instrument is white and was carried inside a gray fiberglass carrying case. Reward for Secret Witness: \$50.



GOOD GARDENERS — Debbie Harmon and her husband, AEAN William M. Harmon, accept a certificate for having the Yard of the Month in the Old Duplex housing from Syble Cope, head of the Personnel Support Branch in the Housing Division. Other winners and the types of housing in which they reside are Lt. Russell T. Williams for "hill" housing, and AD1 Francis L. Liekhus for Capehart "B" housing.

To pick up items from DPDO, prior OK by Code 25 required

The Naval Weapons Center has just been notified that the Defense Property Disposal Office (DPDO) now requires authorization from the Accountable Supply Officer (Head, Code 25, for NWC) before any Department of Defense employee can pick up property from any DPDO, including the facility at China Lake.

The new procedure will involve forwarding names to DPDOs in advance of visits to withdraw property, obtaining names of individuals authorized to make withdrawals, filling out signature cards, and a number of other adjustments to the current system.

Those who wish to make such arrangements should contact Code 253 (ext. 2997) for assistance.

Employees can still take part in second year of WBCC study

The second year of the White Blood Cell Count (WBCC) Study is nearing a close, and each department has been contacted so that employees could participate by having their blood drawn.

Since many persons were on vacation, on travel, or otherwise not available when the team came to many of the work places to draw blood, any civilian who has not been given the opportunity to participate this year and wishes to do so should telephone Grace Seal, NWC ext. 2911, to make an appointment.

About 7cc of blood is drawn from each volunteer and run through the Technician H6000 differential blood analyzer. The individual who contributes the blood will then receive a printout of the various factors in his or her blood and an indication of what the normal range is for those factors.

Those who participate will want to file these copies among their personal medical records for reference.

The results of these blood tests are being tabulated as part of the overall study of WBCC.

Rocketeer deadline set Monday due to Vets Day holiday

Because of the Veterans Day holiday next Friday, Nov. 11, the deadline for the next issue of the Rocketeer, which will be published on Thursday, Nov. 10, is being moved up a day.

Those with news items they wish published in the Nov. 10 Rocketeer must turn them in no later than 4:30 p.m. on Monday, Nov. 7.

Anything that is available earlier, and can be brought in or phoned to the newspaper office prior to the deadline, will assist the staff in getting next week's newspaper out on time in spite of the abbreviated work schedule.

The Naval Weapons Center is working on a procedure that will comply with the new policy and still be as convenient as possible for NWC personnel. Department heads of staff will be notified of the details as rapidly as possible.

Special interim arrangements through Dec. 1 with DPDO Barstow, China Lake, and Norton will allow NWC employees to pick up materials at these DPDOs with an authorization letter from the Supply Department.

Those who wish to make such arrangements should contact Code 253 (ext. 2997) for assistance.

Innovative personnel efforts at NWC commended by NAVMAT

Innovations that the Personnel Department and the Equal Employment Opportunity staff have been trying out in the past two years at China Lake are the sort of experimentation that the Naval Material Command would like to see become more widespread, according to L. R. Klein, Assistant Deputy Chief of NAVMAT for Manpower and Personnel.

During his visit to NWC last week, Klein stated that it is NAVMAT's policy to allow

experience with this new system and the approach is working well, according to both Naomi Mulhern, who spent most of that time as the Center's Deputy EEO Officer, and Beth Perrine, who has recently taken over that responsibility.

With the new approach, the EEO Officer (now Code 0908) has taken on some staffing functions that have traditionally been operated by personnelists, and the EEO staff continues to evaluate key areas of recruitment, new hirals, merit promotion selections and career development for EEO impact. Positive actions to be taken in FY-84 are detailed in the internal Affirmative Action Plan (AAP) that has just been published and distributed at NWC.

In the Affirmative Action Plan, Capt. K. A. Dickerson, who as Center Commander is the EEO Officer, notes that he wholeheartedly supports the Navy's EEO policies and Affirmative Action. He states that every NWC manager, supervisor and employee has a responsibility to aggressively carry out the objectives of the EEO Program.

The AAP targets specific areas of concern; each problem and the action to be taken to resolve that problem is specified by whom, when and how. Action items include alleviating the underrepresentation of women, minorities and handicapped personnel on Center, providing increased employee development and self-development efforts, expanding Upward Mobility, expanding Community Outreach programs, handling discrimination complaints and preventing sexual harassment.

"Both Personnel and EEO are dynamic, with ever-changing issues and situations," Klein says. "I've spent 20 years as a Navy personnel officer," he notes, "and it's still very exciting to see how organizations such as the NWC Personnel Department can find new approaches to meeting long-standing problems. I encourage such experimentation with the objective of increasing our effectiveness — finding ways of doing things better."

An innovation that might be appropriate for other organizations as well for NWC is the incorporation of EEO functions with personnel functions, making EEO an integral part of management responsibility at all levels of management and supervision.

China Lake has now had two years of

Kern Canyon fault believed cause of recent earthquakes

Living in California can be a shakey experience, as those who reside in the Kernville-Isabella-Walker Pass area can attest. A series of earthquakes was felt by residents of those areas in the week following Oct. 18; these quakes included one solid jolt measuring magnitude 4.6 on the Richter scale.

The epicenter of the quake series was located north of Kernville near Cannel Peak. They are believed to be caused by movement of the Kern Canyon fault, although the whole area between Lake Isabella and the Indian Wells Valley is an area of high seismicity.

This fault is the northern extension of the White Wolf fault that caused the Tehachapi earthquake of 1952.

The White Wolf fault lies about 20 miles north of Garlock fault and parallels that fault in its east-west orientation. At Lake Isabella that fault changes both its direction and its name; in its north-south extension it is known as the Kern Canyon fault.

The Kern Canyon fault is just west of the Sierra crest and vanishes south of Mt. Whitney.

Vehicle Code amended

A new law which became operative July 1 amended Section 13353 of the California Vehicle Code regarding implied consent for chemical testing.

When driving on a public street, a motorist is "deemed" to have given "consent" to a chemical test for purposes of determining the alcohol or drug content in his or her blood. Chemical tests are conducted on blood, breath, or urine. Motorists are given the choice of which test will be administered.



L. R. Klein

organizational variations under its command. With more than 218,000 civilian employees in the Systems Commands, Naval laboratories and other organizations under NAVMAT cognizance, the wide range of situations and locations calls for an assortment of different approaches to personnel matters.

An innovation that might be appropriate for other organizations as well for NWC is the incorporation of EEO functions with personnel functions, making EEO an integral part of management responsibility at all levels of management and supervision.

China Lake has now had two years of

Widely varied projects emerge over yrs.

Although weapon development has been the primary mission of NOTS-NWC during its four decades of existence, the wide-ranging interests and creativity of its scientists and engineers have led to numerous areas of exploration whose connection with weaponry is not immediately obvious.

Some of the programs developed as a result of the "I wonder what would happen if..." attitude of the creative scientist, some were originated at the direction of higher Navy headquarters in Washington, and some were extensions of other work that was ongoing.

Even the programs that never "sold" have proven of value. Technology once developed often can have other uses than that for which it was intended, and the added expertise of those involved in any development enhances any future work that they do.

SATELLITE LAUNCH ATTEMPTED

Among the most widely known of projects not related immediately to weapons was the China Lake attempt to put a satellite into orbit in 1957 in response to the Russian Sputnik.

The Naval Observational Television Satellite Project — better known locally as either the NOTS Project or NOTSNIK and to the Navy as Project Pilot — used an aircraft as the first stage for launching a small earth satellite. Available components were used to construct six satellites; while five clearly failed, the sixth one may have actually gone into orbit because signals of the correct frequency were received after the device was air-launched.

SOFT-LANDING VEHICLE TESTED

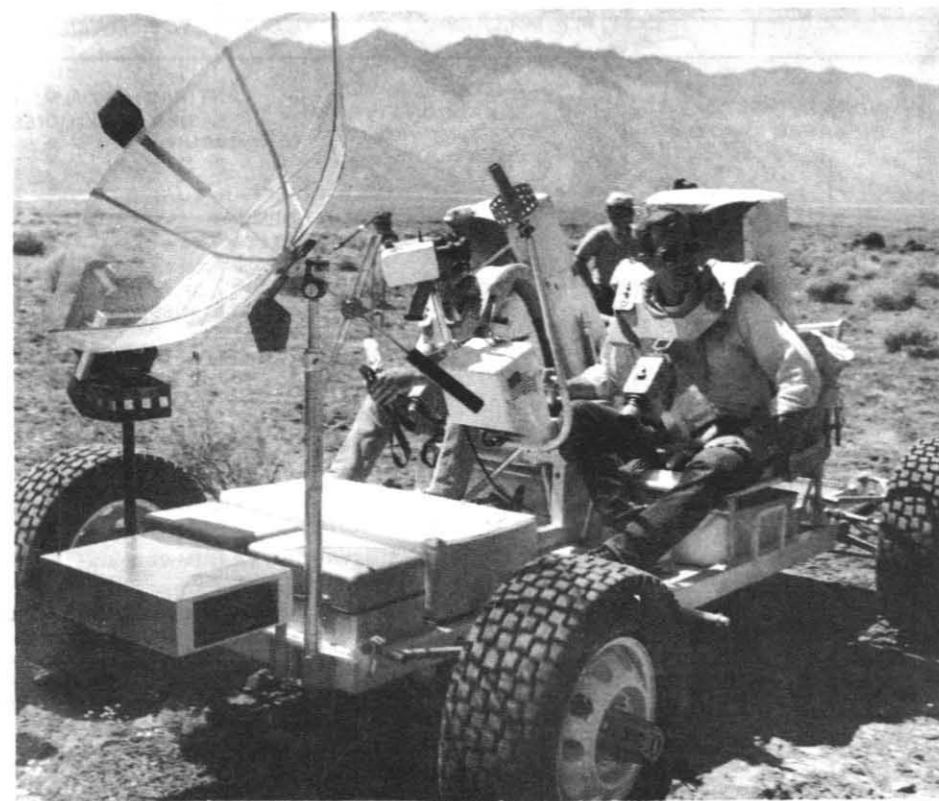
Another space-related development was a Soft-Landing Vehicle, an early experimental lunar landing craft. The SLV was a variable-thrust vertical landing vehicle using hypergolic fuels for propulsion, and was actually flight-tested at what was then NOTS. (Models of the real lunar rover developed elsewhere were test-driven by the astronauts on Coso Range — perhaps because NASA thought the terrain was the closest to the lunar surface of any spot available to them.)

Another direct contact with space for NOTS was that the ejection system for the Gemini capsule was tested at the SNORT track.

Getting vehicles into the air was also the thought behind STAMP (small tactical aerial mobility platform), an apteron — a wingless vertical takeoff and landing vehicle — that was designed to be either a small vehicle two-thirds the size of a Volkswagen that could carry an operator plus a 500-pound payload or a platform that could carry two men.

Either would have had a flight duration of 30 minutes maximum and a range of 30 miles.

The feasibility of the concept was proven, and it also was proven that an operator would be able to learn to fly the apteron



APOLLO 15 Astronauts James Irwin (at left) and David Scott prepared for their lunar mission by traveling here in the spring of 1971 to check out a model of the moon rover that was similar to one driven later on the surface of the moon. In the cinder cone area north of Little Lake, the astronauts went through a drill that involved accurately describing rocks they picked up so they could do the same when communicating with earthbound scientists while they were on the moon. Hopefully this would result in only rocks of scientific interest being brought back from the lunar surface during the Apollo 15 mission. — Photo by Don Yockey

quickly and safely. In 1978, however, STAMP was cancelled.

Weather modification is another way in which the local scientists looked skyward. Programs included bringing rain to the drought-stricken Philippine Islands, and Foggy Cloud, a method used to clear fog from over airports by seeding the fog and causing it to precipitate.

The SNORT track was the site of an Army sponsored program called CATSHELL. By using a rocket sled it was possible to catch a 155mm shell fired from a howitzer. A total of 42 tests were conducted between 1959 and 1964. And, indeed, shells were caught. (The rocket sled was not configured to look like a catcher's mitt.)

This being a Navy base, even though far from the sea, naturally resulted in the curiosity of local scientists turning towards the ocean.

For instance, the cetacean studies that the Navy began two decades ago were a joint venture of China Lake and Point Mugu. The first porpoise used by the Navy in its studies of cetacean communication and behavior was even named "Notty." (The name was derived from "NOTS.")

Notty never swam in China Lake, but other fish were brought to what was then NOTS for studies on fish propulsion. How fish swim would seem to be far from applying to the mission of NOTS, but at that time, NOTS was involved with undersea

work both at China Lake and the Pasadena Annex.

The Navy could benefit greatly if the secret of quiet and low-friction movement of bodies through the water used by fish could be applied to underwater vehicles.

Not only were actual fish observed while swimming through fluids that would leave trace patterns, but also a "mechanical fish" was built to undulate a flexible plate in a water tunnel to study flow patterns.

Quiet propulsion was also the purpose of the attempt to develop a sailboat that could travel at speeds of 40 knots or more. This project left the Center when the scientist involved transferred to another laboratory, but he wrote a book about it.

Also leaving the Center at the same time as the involved scientist was an early energy program — the study of kelp farming to produce both low cost fuel and feed by establishing kelp beds in the oceans where they could be readily harvested. (That particular project has now been developed to a point that industrial development is proceeding.)

Energy is also the driving force behind an immensely successful geologic project — the development of geothermal energy. While certainly not a weapon, the energy that will be produced when the geothermal plant goes on-line in FY 1985 will enable NWC to spend more of its money on direct project costs rather than on utility bills.

Dr. Fowler . . .

(Continued from Page 5)

been spotted from the air by Dr. Charles Lauritsen.

Joining him on this survey trip were Dr. Ike Bowen (who later headed the Mt. Wilson and the Palomar Observatories) and Wesley Hertenstein (who later headed CalTech's physical plant).

In describing the survey, Dr. Fowler notes that they drove up from Pasadena, turned off on the Trona Road, and then turned off that and drove another 20 or 30 miles into the desert, stopping to take pictures along the way. ("We also saw about one cow per square mile," he adds.)

He says of this trip in October 1943 that "When I got there I was just completely sold on the place, although it didn't have the nice dry lake we had at Goldstone; I knew the Navy could build runways and have the darn thing going."

RECOMMENDATION ADOPTED

This recommendation was forwarded to Dr. Lauritsen, who acted upon it and encouraged the Navy to establish what was then the Naval Ordnance Test Station.

Dr. Fowler's association with the desert base continued, with his spending two to three days at China Lake frequently, and sometimes a week or more at a time. He is also credited with originally laying out both the G-1 and G-2 ranges.

Shortly after NOTS was founded, Dr. Fowler went to the South Pacific to study rocketry, what the Navy was doing with rocketry, and what needs existed. (This technical advisory trip could be seen as the forerunner of what many years later became the Naval Science Advisor Program.)

In 66 days, he flew more than 21,000 miles throughout the South Pacific theater of operations and talked with military personnel at all levels about rockets.

One of the specific recommendations that he made was that technical manuals and other information about the current state of the art of rocketry needed to be gotten to the troops who were actually using the rockets, that information exchange between the personnel in the field and the scientists and developers of rockets was essential.

WORKED ON A-BOMB DETONATORS

In addition to his work with rockets, when Dr. Fowler returned to the United States, he came up to China Lake on another project — helping to build the detonators for the atomic bomb. The detonators were actually made in Pasadena, but were brought to the China Lake Pilot Plant to be loaded and test fired, and his expertise and that of Dr. Thomas Lauritsen played a substantial role in that project as well.

Once World War II had come to a successful conclusion, Dr. Fowler again returned to CalTech where he became a professor in 1946 after 10 years of service as a research fellow.

In 1970 he became the university's first institute professor, an honorary designation granted only to the most distinguished faculty members.



N.O.T.S.

ROCKETEER

November 4, 1983



Reflections on the past

Employee here since '45 recalls early days at NOTS

Present-day civilian employees and military personnel of the Naval Weapons Center can see little resemblance here today of the shape things were in during the era toward the end of World War II that brought with it the initial build-up of the Naval Ordnance Test Station, Inyokern — forerunner to NWC.

To help gain some perspective on this subject, the Rocketeer asked Bob Freedman, the employee with the lowest pay number who now has the longest continuous service at China Lake, to reflect back on those early days.

Freedman joined the Civil Service work force at NOTS on April 11, 1945. At that time, he was a mathematician involved in data reduction of rocket firing tests and bomb drops on the ranges.

HOLDS RESPONSIBLE POST

Today Freedman is the NWC program manager for the A-7E Corsair II Weapons System Support Activity in the Aircraft Weapons Integration Department — a position that involves a quantum leap forward in equipment used and technology compared to what was being done nearly four decades ago.

While they can't be called pioneers in the truest sense of the word, since Inyokern much earlier had a land boom of sorts when orchards abounded and the L.A. aqueduct construction was going strong, nevertheless the early timers at China Lake were far from wallowing in the lap of luxury as they put forth the effort then needed to support U.S. and Allied armed forces who were in the throes of bringing World War II to a close.

MASSIVE CONSTRUCTION JOB

The main site of what is now the Naval Weapons Center resembled one large, spread-out construction project. Contractors had cleared off all the brush and undergrowth, and it didn't take much of a breeze to pick up the dirt and sand. When added to the heat of the desert, it doesn't take much imagination to picture the conditions under which people lived and worked in those days.

Freedman recalls starting out on an automobile trip to Los Angeles and running into blowing sand and dust so thick that visibility was cut to zero. His sandblasted windshield became opaque before he was a mile beyond the Inyokern Airport. Winds like that, which seemed always to come on weekends, gave rise to the phrase "termination weather," since employees left in droves. In the early days, he said, Security processed about a thousand people in and the same number out each week.

CIVILIANS HOUSED IN BARRACKS

Housing was what might be expected at a military base in the 1940s. What had been built as a Marine barracks was turned over to civilians, with men on the first floor and women on the second floor — 50 double bunks on each floor. The longer an employee remained, the greater his or her chances increased of becoming eligible to share a small dorm room.

All personnel ate their meals at the military mess hall for a total of 70 cents per day (20 cents each for breakfast and dinner, and 30 cents for lunch). For entertainment, there were movies — admission 10 cents and two showings per night — that drew large audiences. Also popular were softball games and boxing matches at what was called the Beer Hut diamond (now Reardon Field).



TINY TIM, an 11.75-inch torpede-shaped rocket developed during World War II, is fired over China Lake ranges during 1944. Operations were conducted from Harvey Field (now the Inyokern Airport) before air units moved to Armitage Airfield. Tiny Tim weighed 1,250 lbs.

Prior to the end of World War II, NOTS employees worked 12 days on and then got 2 days off. This schedule was set so that half the number of personnel would be working each weekend. Extra gasoline ration stamps were provided to enable those wishing to do so to make two round trips per month between China Lake and Los Angeles.

Military aircraft used in rocket and bomb tests at NOTS initially were flown out of Harvey Field (Inyokern airport) until early June 1945, when the aircraft (except for B-29 bombers) were flown to Armitage Airfield. The B-29s, already at Armitage Field, were involved in work on Project Camel, the trigger for the atomic bomb, Freedman said.

Equipment then in use for aircraft control on the ranges was every bit as rudimentary as living conditions in the early days, Freedman said. One such device, called a "harp," was employed by range officers whose job it was to instruct an aircraft pilot when to dive, at what angle, and when to release a rocket or bomb.

The harp had wires in a semi-circle to indicate range to the target and wires from the center outward to indicate dive angle. On one occasion, while a range officer at Baker Range was demonstrating aircraft control capabilities to some visiting VIPs, he radioed instructions for an aircraft pilot to dive.

When the "aircraft" didn't begin its dive, the range officer repeated and repeated the instructions, which were never acknowledged. The problem became apparent moments later when everyone in the vicinity could see that there was a raven — which in the distance had appeared to be an aircraft — flying down the flight line.

Early day rocket firing tests were not without their hazards, Freedman pointed out. He recalls particularly one pilot whose experiences gave credence to the adage that mishaps have a way of happening in groups of three, as he was involved in three accidents in one week.

The first occurred when a 11.75-in. Tiny Tim rocket dropped from his aircraft while he was taxiing down the runway. Next he was airborne with a Tiny Tim rocket under the starboard wing of his aircraft when a malfunction occurred. Normally, the Tiny Tim was fired by pulling a lanyard after first being released and dropping from the aircraft. In this instance, however, the rocket ignited while still being carried in its launcher and the missile hit the aircraft's starboard propeller. Pieces of the prop pierced the fuselage — just missing the pilot's feet.

This same pilot later was forced to make a crash landing on one of the ranges. During a rocket firing test, one of the rockets ricocheted off the ground and back into the air — striking the engine section of the aircraft from which it had been launched.

Despite all of the hardships of the early days, there was exceedingly high morale among all those who worked at NOTS, Freedman recalls with pride. "They worked hard and played hard," he said.

Ex-China Laker Dr. Fowler wins Noble Prize

When the winners of the Nobel Prize for physics were announced on Oct. 19, one name was familiar to long-time China Lakers: Dr. William A. (Willie) Fowler, 72, of the California Institute of Technology, who shared the prize with Prof. Subrahmanyan Chandrasekhar of the University of Chicago.

Dr. Fowler has been on the faculty at CalTech for more than 50 years. Although listed as retired, he is still working, which is just what old timers who remember him in the early days of what was then the Naval Ordnance Test Station would expect from someone with the energy and drive that he displayed.

The prize was awarded to Dr. Fowler for the contributions that he has made to nucleosynthesis, the formation of elements from simpler base units. His work has contributed to astronomers' understanding of stars.

The contributions that he made during World War II, to both CalTech and the Navy, were considerably less esoteric.

CalTech had been active in the Navy's rocket program. When the decision was made that a station needed to be established on the Mojave Desert to carry on the work that could not be adequately performed at Goldstone and at the Eaton Canyon facility, Dr. Fowler was one of those chosen to take part in the ground survey of the site that had

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Close relationships key to success in getting NOTS rolling

Leroy L. Doig, Jr., who arrived at NWC in 1945 and now has the third-lowest employee number on board, feels the overall ambience of the Station was different in those days.

"Relationships among people were closer," he says. "Work groups also tended to play together, and you got to know those people a lot better than you do now."

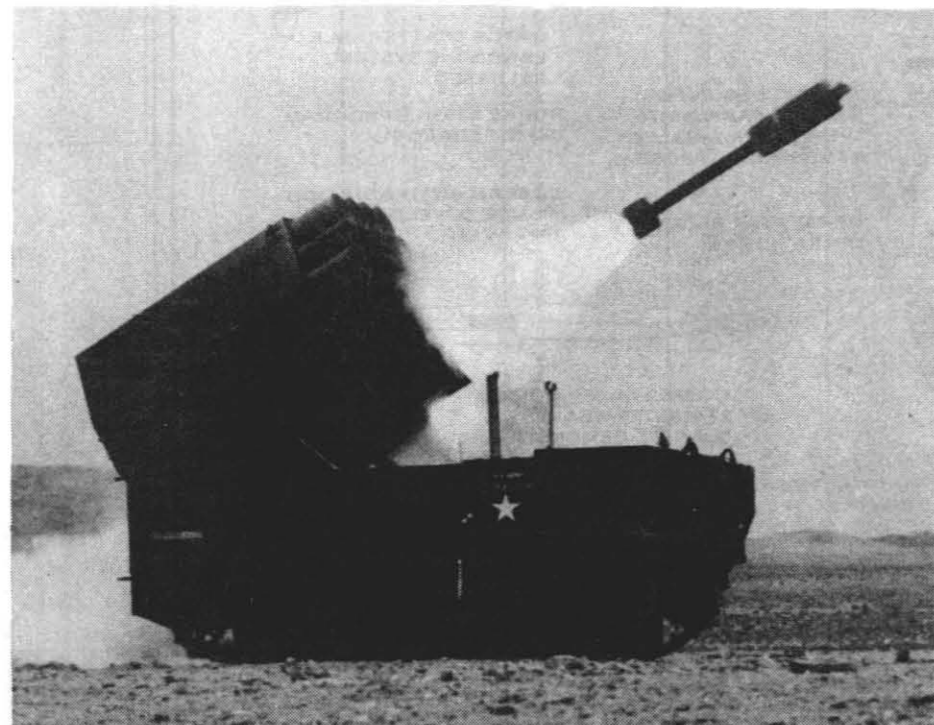
He muses for a moment, and adds, "that, of course, sometimes wasn't all that great an idea."

Doig feels that the reason that there was so much more camaraderie was that there was pretty much nothing else around.

"The job tended to be number one. There was a lot of interest in getting things done, and we were all aware that this was a very different sort of place than anywhere else in the world. You could work long hours if you wanted. And the work was so interesting that most of us did. Of course, some of the wives and families weren't too happy about that."

He says that the center of many of the activities for the area was the Officers' Club, with big parties scheduled at all holidays, that had elaborate programs (including department heads taking part in skits), and a dance every other Friday night.

"Everybody participated, and therefore we all had a lot of fun," Doig says. "The togetherness was what made the place go."



A SURFACE-LAUNCHED version of the Fuel Air Explosive (FAE) is fired during a test of this potent weapon that was introduced during the Vietnam War. FAE is a multi-purpose weapon capable of mine neutralization and antimaterial blast destruction.



AN F-4J AIRCRAFT, loaded with a HARM missile, takes off from Armitage Airfield.

1943 NAVAL ORDNANCE TEST STATION
40 YEARS AT CHINA LAKE

NAVAL WEAPONS CENTER 1983



The U.S. Naval Ordnance Test Station (NOTS) was established in a remote location of California's Mojave Desert on 8 November 1943 to meet the urgent wartime need for a proving ground for aircraft rockets being developed for the Navy by the California Institute of Technology (CalTech) and to form the foundations of a large weapon development and testing center in the West. The Station began by providing ranges and test areas for rockets and components, facilities for pilot training, and propellant pilot production; the Station's mission expanded over the years to include the complete spectrum of weapon development effort—from basic and applied research to total system development, pilot production, and Fleet and production support—for air- and surface-launched anti-air, anti-surface, and anti-submarine weapons. As the Naval Weapons Center (NWC), China Lake's mission has concentrated on guided missiles and air warfare systems for the Fleet and, recently, parachute and aircrew-safety systems.

This timeline provides a general overview of events at NOTS-NWC during the last 40 years—it is an overview and is not a complete listing of all significant events. Many technical accomplishments do not have a distinct date associated with their occurrence and represent, rather, continued progress in supporting the Center's mission.

Along with significant projects, technical and administrative events, and facility openings, this chronology gives the names of the China Lake commander, technical director, and parent bureaus or commands during the past 40 years; periods of combat are shaded, and the names of NOTS-NWC products are given in bold type.

