

### Low cost shots for kids scheduled on Monday in Ridgecrest

California State law requires that all children must have their basic series of immunizations before they enter school so all children will be protected from unnecessary exposure to common childhood diseases.

Since many youngsters have not met this requirement, the Kern County Health Department suggests children that are expected to start school in the fall get their immunizations now rather than waiting until later this summer.

Immunizations that can be obtained at the regular monthly clinics for children aged two months through 17 years of age include polio, diphtheria, measles, rubella, pertussis (whooping cough), and tetanus.

The fee for each of these immunizations is \$1, with a maximum of \$5 per family per visit. Starting on July 1, fees will increase to \$2, but the \$5 maximum will be unchanged. No credit cards, checks or large bills will be accepted, but stickers from Medi-Cal cards will be honored.

No appointment is necessary, but a parent or guardian must accompany children under the age of 18 to sign a consent form.

The next local clinic will be held on Monday from 9 a.m. until noon at the Health Department, 250 W. Ridgecrest Blvd., Ridgecrest.

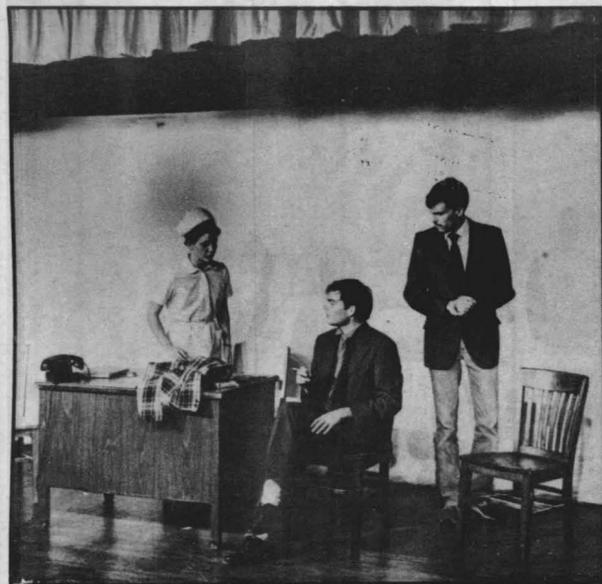
### 'Harvey' comes to stage in Playhouse for 4 performances

Tonight Elwood P. Dowd and his friend the Pooka, Harvey, will appear onstage during the China Lake Players production of "Harvey," as the curtain rises at 7:30 p.m.

The production will be at The Playhouse, corner of Blandly Ave. and Lauritsen Rd. Doors open at 7 o'clock so that those who have made their reservations by telephoning The Music Man, 375-4001, can pick up their tickets.

Admission is \$3.50 for adults, and \$2.50 for juniors under the age of 18, senior citizens, and active duty enlisted military.

"Harvey" will be seen tomorrow night at the same time, and, again, next Friday and Saturday evening. Reservations should be made in advance by telephoning The Music Man to ensure seating for this popular comedy.



**WHERE'S HARVEY?** — Missing from this scene from the China Lake Players production about the Pooka — which looks like a 6-ft. tall white rabbit — is the invisible bunny himself. Nurse Ruth Kelly, played by Sharon Short, discusses the Pooka with Elwood P. Dowd, played by Bryan Schuetz, Jr., as Dr. Lyman Sanderson, played by Bob Hoffman, looks on. — Photo by PH2 Rick Moore



**WELCOME CHECK** — Ivy Meyer, outgoing supervisor of the Thrift Shop, hands a check to Linda Smith, chairman of volunteers for the China Lake branch of the Navy Relief Society, as Billie Hise, Thrift Shop treasurer, watches. The Navy Relief Society receives half of all the money raised by the Thrift Shop operated by the Women's Auxiliary of the Commissioned Officers' Mess. — Photo by PH2 Rick Moore

### Floral watercolors by widow of NOTS scientist go on display

Marcelle Engel, wife of the late Dr. Rene Engel who was for many years a senior scientist at what was then the Naval Ordnance Test Station, is the featured artist at the Sylvia Winslow gallery of the Maturango Museum during the month of June.

#### NEX News...

The Navy Exchange retail store is going to have a new look — there will be floor models of various appliances and television sets on hand.

After a lengthy process of trying to obtain approval to sell such items, the approval has been granted.

For home use only, washers, dryers, refrigerators and freezers will be sold.

More exciting yet, television sets, both color and black and white, will also be on sale at the NEX's money-saving prices. The TV's will be those with a 19-inch diagonal screen or under.

For all NEX shoppers, there is going to be a sidewalk sale May 30 thru June 1. Austrian Crystal Concession will be the eye-catcher on sale.

Also, already in progress is a sight & sound sale. The NEX also has many bridal and graduation gifts to choose from.

The NEX would like to welcome aboard Ltjg. Ray Tanjoco and family.

Her exhibit, entitled "L'Art et Les Fleurs," consists mainly of floral watercolors.

The show will open with a reception on Sunday from 2 to 4 p.m. at the museum.

Mrs. Engel studied art in her native Paris, France, and became a fashion designer for "Le Figaro" and the British "Daily Mail" newspapers before moving to Spain, and eventually to the United States.

She subsequently spent years in the Philippines as a designer for a British-American textile firm. She was in the Philippines at the outbreak of World War II, and was interned in the notorious civilian internment camp at the University of Santo Tomas.

Once more in the United States, she married Dr. Engel. They moved to NOTS in 1957, and retired in 1966 to their cottage in Wofford Heights, where she still resides.

### Families invited to CLMRG presentation on camping safety

With the summer camping and hiking season once more looming ahead, the China Lake Mountain Rescue Group has scheduled a free demonstration and slide show for families and individuals planning to get into the mountains this summer.

The presentation will be at the Center theater on Tuesday from 7 to 8:30 p.m. and persons of all ages are invited to attend.

First on the evening's agenda will be the Hug-A-Tree demonstration. This will include a slide show aimed at parents to show them how to teach their children skills needed to survive if they should get lost in the wilderness.

This eminently practical demonstration, presented by Carol Burge and Andrew Mitchell, has proven its value in lives saved since the Hug-A-Tree program began several years ago.

Bob Adams will present a slide show on mountain hazards and rescues in which CLMRG has played a predominant role in the Mount Whitney area during the past decade.

### New VX-5 Skipper slated to talk to IWV Navy League

Capt. A. M. Phillips, the new Commanding Officer of Air Test and Evaluation Squadron Five, will be the guest speaker at the monthly dinner meeting of the IWV Council, Navy League of the United States.

The meeting will be held on Thursday, June 13, at Le Parc restaurant in Ridgecrest. A social hour at 6:30 will precede dinner at 7:30 o'clock. Menu choices are California chicken or roast beef.

Reservations must be made by Tuesday, June 11. They can be made by telephoning Bea, 375-4272; Julie, 446-5488; or Judy, 446-2538 (between 8 a.m. and 1 p.m.).

### Thrift Shop monies disbursed to many worthwhile charities

Once again the Thrift Shop operated by the Women's Auxiliary of the Commissioned Officers' Mess has benefited the community by sharing its proceeds with a wide range of community organizations.

Each spring half of the proceeds are presented to the Navy Relief Society during its spring drive and the other half of the proceeds are shared with community charitable and educational groups. In the fall, the proceeds are split between NRS and the United Way.

Since overhead costs of running the Thrift Shop are minimal, prices of items sold can be kept very low, and yet a substantial profit can be realized. All the labor is volunteer and the items sold are donated.

In addition to NRS, other groups receiving checks recently include Burroughs Band Boosters, NWC's Child Care Center, China Lake Players, Civic Light Opera and Theater Association, Desert Community Orchestra, Desert Counseling Clinic, High Desert Child Abuse Prevention Council, High Desert Council of the Arts, and High Desert Swim Team.

Also benefiting were IWV Concert Association; IWV Search and Rescue; IWV Swim Team; Maturango Museum; Music Parents Club of Sierra Sands; Navy League of the United States (Sea Cadets); Oasis Garden Club; Sierra Sands Drug and Alcohol Program; Richmond Special Education Building; WACOM; and Women's Center, High Desert.

### Astronomy buffs to hear about radio observatory Monday

CalTech's Owens Valley Radio Observatory, located north of Big Pine, will be the topic of discussion at the China Lake Astronomical Society meeting next Monday.

All interested persons are invited to attend the meeting, which will be held at 7:30 p.m. at the Kern County Library on Las Flores St. in Ridgecrest.

## Movies

FRIDAY, MONDAY	MAY 31, JUNE 3
"PROTOCOL"	
Starring Goldie Hawn and Chris Sarandon (Comedy, Rated PG, 95 min.)	
SATURDAY, SUNDAY	JUNE 1-2
"JOHNNY DANGEROUSLY"	
Starring Michael Keaton and Joe Piscopo (Comedy, Rated PG-13, 90 min.)	
WEDNESDAY	JUNE 5
"ONCE UPON A TIME IN AMERICA"	
Starring Robert DeNiro and James Woods (Drama, Rated R, 113 min.)	
FRIDAY	JUNE 7
"JUNGLE BOOK"	
Starring Phil Harris and Sebastian Cabot (Animation, Rated G, 78 min.)	

Starting Times: Matinee / 2:00 pm Evening / 7:00 pm  
Box Office Opens: Matinee / 1:30 pm Evening / 6:30 pm

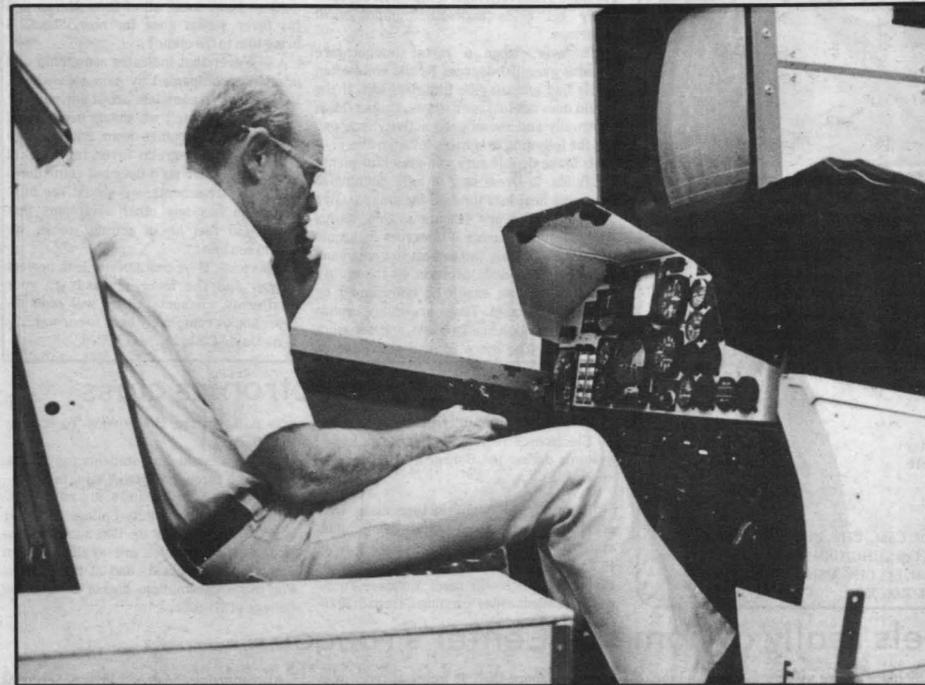
(G) ALL AGES ADMITTED General Audiences  
(PG) ALL AGES ADMITTED Parental Guidance Suggested  
(R) RESTRICTED Under 17 Requires Accompanying Parent or Adult Guardian

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FROM: \_\_\_\_\_ PLACE STAMP HERE

TO: \_\_\_\_\_

## QF-4 is newest product of FSAT program



**WHAT NEXT?** — Dick Wright ponders the next maneuver of the drone aircraft that he is actually flying from the target control system in the Range Control Center.

## NRS drive deadline only a few days away

Only a few more days remain in this year's Navy Relief fund drive for those who wish to take part in the drawing for four prizes to make their donations and receive tickets.

All persons in the Indian Wells Valley, civilian or military, are invited to make a donation and take part. The money goes to a superb cause, the Navy Relief Society, which provides emergency assistance to active duty and retired Navy and Marine Corps members and their dependents.

Last year the local chapter made loans and grants in excess of \$37,000, although only \$16,600 was raised in the annual fund drive.

All money contributed goes directly into services provided because overhead for

NRS functions is paid from interest on money invested many years ago.

Anyone donating \$2 will receive one ticket for the drive, while those who donate \$10 or more will receive six tickets for each \$10 donated.

Military personnel can make their donations through allotment, but civilians need to pay either by cash or check since payroll deduction cannot be accepted from them for NRS.

The drawing for prizes will be held at the conclusion of the fund drive next Thursday, June 6.

Top winner in the drive will be able to select any model of a Suzuki quadrunner all terrain vehicle, including the new sport model, from Bob's Super Cycle in Ridgecrest.

Second place winner in the drawing will be able to pick either an adult or a child's model of a 10-speed Schwinn bicycle from T. J. Frisbee's bike shop.

The third and fourth place winners will receive \$25 gift certificates for dinner for two from either Le Parc or Hideaway restaurants in Ridgecrest.

LCdr. Rich Bruce, Code 3107, and Lt. Bruce Hammerstein, Code 254, the co-chairman of this year's fund drive for NWC, report that a total of more than \$6,000 has been collected so far. Lt. Sarah Clinkscales is chairing the drive for Air Test and Evaluation Squadron Five.

Tables will be spotted around the community this weekend and next week to permit those who wish to donate to do so. In addition, anyone who wishes to donate money to the NRS drive can contact the chairmen of the drive to find where they can do so.

By any standards, NWC's work with missiles can be rated an outstanding success. Equally successful, though less well known, is the Center's work with targets for testing those missiles — the Full Scale Aerial Target (FSAT) program.

According to Jim Bowen, currently FSAT program manager in the Aircraft Department, China Lake was forced into development of full-scale aerial targets in the late 1960s because at that time there were no high performance targets that could reasonably simulate threats for missile testing.

Jay Bornfleth, long-time member of the Center's Weapons Department, and others in his group came up with an ingenious solution to the problem. They worked out a means of converting worn-out military aircraft into such targets by converting them into all-attitude remotely piloted vehicles.

Adding to the complexity of the problem was that these drones must also be maneuvered for checkout.

Solution to the FSAT problem earned NWC responsibility for the development of these targets in 1970, a responsibility that it has proudly kept since.

How successful the program has been is indicated by the number of aircraft that have been converted and used.

So far, 32 QF-86H Sabre jets, eight QT-38 Talons, and 63 QF-86Fs have been converted and delivered, with a contract ongoing for another 41 QF-86F aircraft.

In addition, the first QF-4 Phantom has been completed and is now undergoing technical evaluation at the Pacific Missile Test Center, Point Mugu.

"That's a very complex aircraft," Bowen (Continued on Page 4)

## Navy changes put labs under RAdm. Mooney



RAdm. J. B. Mooney, Jr.

With the reorganization of the groups included in the former Naval Material Command, Navy laboratories, including NWC, now report to the Chief of Naval Research, Rear Admiral J. B. ("Brad") Mooney, Jr. He also holds the title of Chief of Naval Development.

A native of Portsmouth, New Hampshire, he was graduated from the U.S. Naval Academy in 1953. Much of his 30-year career has been as a submariner, including two deployments in the Vietnam Combat Zone.

Highlights of RAdm. Mooney's career include being Officer-in-Charge of the bathyscaph Trieste II and the U.S. Navy Deep Submergence Group. He was the controls of the Trieste II when, in 1964, it located the hull of the sunken submarine USS Thresher on the floor of the Atlantic at a depth of 8,200 feet.

He was also advisor and coordinator of the deep submersible search and recovery of the hydrogen bomb off the coast of Spain in July 1966.

Immediately prior to his assignment as Chief of Naval Research, RAdm. Mooney served as Oceanographer of the Navy.

RAdm. Mooney's decorations include three Navy Commendation Medals, three Meritorious Service Medals, and the Legion of Merit.

He is married to the former Martha Ann Huntley of Keene, New Hampshire. They have three daughters: Melinda Jean Thomas; Pamela Ann; Jennifer Joan.



**Divine Services**

**PROTESTANT**

SUNDAY WORSHIP SERVICE 10 a.m.  
 SUNDAY SCHOOL (Annexes 1, 2 and 4) 8:30 a.m.  
 BIBLE STUDY (East Wing)  
 Tuesday 7:30 p.m. (Nursery provided)  
 Wednesday 11:30 a.m.  
 Thursday 7 p.m. Officer's Christian Fellowship  
 Christian Military Fellowship

**ROMAN CATHOLIC**

SUNDAY MASS 8:30 a.m.  
 COMMUNION SERVICE (Monday) 11:35 a.m.  
 DAILY MASS (Tuesday through Friday) 11:35 a.m.  
 CONFESSIONS (Friday) 4:30-5 p.m.  
 RELIGIOUS EDUCATION CLASSES (Sunday) 10 a.m.

**JEWISH**

WEEKLY SERVICES (Friday, East Wing) 7:30 p.m.  
 ADULT EDUCATION (Saturdays, Annex 4) 9 a.m.  
 RELIGIOUS SCHOOL (Sundays, Annex 95) 9 a.m.

Chaplain J. Milton Collins, Capt., CHC, USN  
 Chaplain A. J. Smith, Cdr., CHC, USN  
 Chaplain Jason E. Knott, Lt., CHC, USN  
 Phone, NWC ext. 3506, 3507

**For better health...**

(Second of two parts)

Q — I see my son has a rectal temperature of 103 degrees F, but seems perfectly fine to me. What should I do now?

A — First of all, fever is not always bad. At times it helps the body to fight off infections. It is also common for young children to have relatively high temperatures when they get colds and other minor viral illnesses.

However, when a rectal temperature climbs over 103 degrees F, the child often feels bad and may be irritable. But, if the child does not look sick to you, drinks fluids normally and shows good activity, you can do the following to help his fever go away:

1. Make double sure you give him plenty of fluids. 2. Dress him in light clothing to promote heat loss through the skin. 3. Give him Tylenol every 4 hours as long as his fever remains above 102 degrees F. Liquid Tylenol is usually the easiest to give young children. The dose depends on the child's weight and can easily be determined by reading the label. There are many brands of Acetaminophen (Tylenol) and all work the same. The more expensive brands do

not work any better than the generics. 4. Sponge him with lukewarm water for 20 minutes and repeat as needed to keep his temperature down. Make sure he does not begin to shiver while in the water. If he does, the water is too cold. Shivering will actually increase his temperature which is exactly what you do not want to happen.

Q — I am doing all of those things and his fever seems gone for now. Should I bring him to the clinic?

A — Fever that indicates something bad is often accompanied by pain somewhere. If he begins to complain about ear pain, or stomach pain, etc., we should see him. If the temperature comes down, but he shows a persistent low-grade fever for over 12 hours, or if later on it does not come down with your treatments, we should see him. Or, if he has any other symptoms that make you feel he is getting worse, we should see him.

Otherwise, if he continues to look perfect to you and the fever responds to your treatments, chances are he will soon recover and be completely back to normal.

— By David Cink, Lt., MC, USNR

**College slates electronics class**

Cerro Coso Community College will offer an Electronics Technology course on radar systems during the College's 1985 summer session.

"Radar I," a 3-unit lecture class will cover the fundamental processes of radar systems. This five-week course begins June 10 and ends July 9. Jayne Weiss will teach the class, which will meet Monday, Tuesday, and Wednesday evenings, from 5:30 to

9:30 p.m., in the Electronics Technology Lab, Room 145.

New and continuing students may register June 3 through 6 from 9 a.m. to 1 p.m., and between 2:30 p.m. and 6:30 p.m.

Cerro Coso Community College will offer over 100 courses for its 1985 summer session. Class schedules are available from many local merchants and at the College. For more information, please contact the College at 375-5001.

**Sgt. Bob Whiting feels really at home on Center's ranges**

Rumor has it that Sergeant Bob Whiting of the China Lake police is personally acquainted with every spring, rock, gully and bush on every square mile of the Center's vast lands, and with most of the wildlife out there as well.

"I should know it pretty well," he admits, "because I covered a lot of land up in the north range years before the Navy got here."

Although he's only worked as a range guard for the Navy since 1966, he says that he first spent time on what is now Navy land when he was a youngster and he and his family used to camp here to get out of the Los Angeles area. Friends of their owned Little Lake, so that was an attraction to the Whiting family.

His love for horses brought him north repeatedly to the Owens Valley, and led to a first career of riding in rodeos. The events in which he specialized, Sergeant Whiting says, were roping and bulldogging.

"We'd start here in southern California in the spring and then head north to northern California, Oregon, Washington, and points east wherever the money was good," he reminisces. "I ended up in Chicago one time in a rodeo that went 17 days and nights."

He says that he remembers his rodeo days well — "Some mornings I hurt a little here and a little there because of them" — and also remembers how much driving was involved in following the rodeo circuit "to

any place where we figured we could make a little money."

Sergeant Whiting kept coming back to California to the Lone Pine area between rodeo seasons and finally settled in. Ten years as an Inyo County sheriff's deputy followed, and then he ran a pheasant and chukkar hunting club in Lone Pine for a while.

"The whole area used to be a lot emptier," he says. "You used to be able to head up to the south fork of the Kern and fish all day for native fish and never see anybody."

Some places used to have a bit more population, however, he says, such as the town of Darwin. "Around 250 hard rock miners used to live out in there, but now there are only 10 or 12 families, now that a lot of the mining's down."

There have also been quite a few changes in the Center's ranges since he picked up badge No. 6 as a range guard. "Back then there were only a couple or so of us," Sergeant Whiting says, "But we've got nine now, including me."

"There's a lot less intrusion on the ranges now," he notes, "since we've been able to be more watchful."

Generally, the intrusion is on the southern range. "If people are lost, we help 'em back out. If they claim to be lost a second time, however, they are apt to get a citation for trespassing."

All the Center's boundaries are posted, and are increasingly fenced, he says, ad-

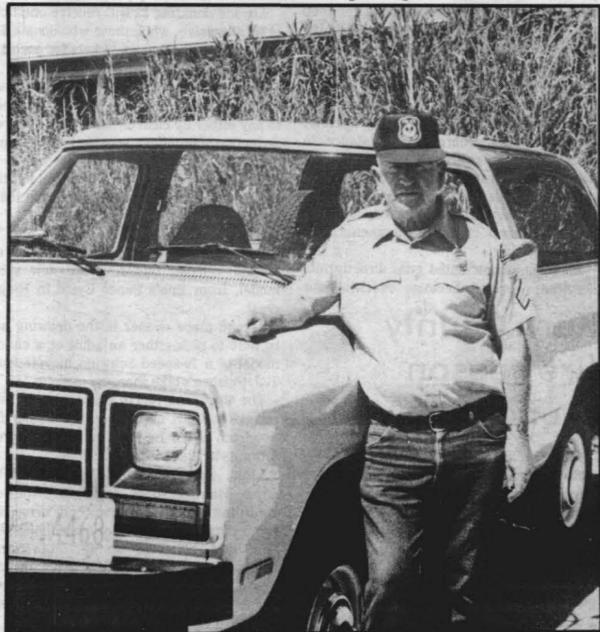
ding that more than 40 miles of fence was installed last year and probably another 40 will be in by the end of 1985.

An average day's patrol runs from 125 to 150 miles.

"It's all beautiful country, especially when the colors change in the evening. The Randsburg Wash area gets within a very few miles of Death Valley and it's just as beautiful as that is," he says. "Gets just as hot in the summer, and in the winter it feels like the only thing between it and the north pole is a barbed wire fence — and the fence is down."

Also enjoying the desert area is Sergeant Whiting's wife, Lavern, who's a native of Lone Pine. Their enjoyment of the outdoors has been passed on to the next generation as well. Their daughter, Elizabeth, still lives and works in Lone Pine. Son Robert is a biologist for the Army Corps of Engineers, based in St. Paul, Minnesota.

"This job isn't for everyone," Sergeant Whiting says, "But I sure like it. It gives me a chance to be out and away from people, out where the country's just like it was a long time ago."



**MORE COMFORTABLE THAN A HORSE** — Sgt. Bob Whiting stands by his current "steed," a four-wheel drive Dodge Ram Truck, which he uses to patrol the Center's ranges. He's also used other methods of transportation from horseback to helicopters to keep an eye on possible trespassers. — Photo by PH2 Rick Moore

Seven Seabees from China Lake Detachment, Reserve Naval Mobile Construction Battalion 17, joined 35 other Seabees in working and training for two weeks at the U.S. Naval Station Rodman, Panama Canal.

During their two weeks of active duty, area Seabees worked erecting pre-engineered buildings, replacing fire hydrants and fixing sidewalks at Rodman.

Lt. (jg) Garry Buck, Officer in Charge of Detachment 3, commended the China Lake deployment for an outstanding job. He noted they were unfamiliar with some construction problems characteristic of tropical areas. However, the Seabees lived up to their "Can Do" motto despite the new problems they faced in the hot, humid climate along the shore of the Panama Canal.

China Lake Seabees were assigned a variety of tasks during their stay in the Canal Zone.

EOC Cy Ebersberger, assistant officer in charge, provided Lt. (jg) Buck with administrative support. Chief Ebersberger said he found his assignment challenging. As AOIC of the detachment, his knowledge of government administrative earned him a letter of commendation.

Assigned to the Material Liaison Office and a crew erecting one of the pre-engineered buildings, CE2 Marvin Windsor found himself fully occupied in the office and the field.

BU3 James Hammett joined Petty Officer Windsor in putting up the new structure to be used as office space by the new harbor operations office.

Modernization of Rodman's fire protection system was part of the detachment's goal. UT2 Lu Hays was assigned as project leader of the team replacing fire hydrants at the Naval Station. UT3 Dave Stallin and CM3 Paul Jones were also assigned to improving the fire projection system.

Petty Officer Jones was also called for welding assistance by Rodman's Public Works Department and the Marine Corps barracks.

Photographic documentation of deployment activities was provided by CM1 Jerry Morrison. He also coordinated his efforts with the local public affairs office and submitted news releases and photographs to Navy and Southern Command news media.

In addition, China Lake Seabees took part in other projects ranging from sidewalk installation to bicycle rack installation at Rodman.

There was also some time for a tour of the locks at the Panama Canal and to see part of Panama City.

Petty Officer Morrison said it was a great experience in dealing with problems of minimum material, supplies and tools found outside of the United States.

They completed the projects within scheduled time frames and earned the commendation of those supervising the work at Rodman.



**ON TOP** — CE2 Marvin Windsor found himself at the top of things while working on the roof of the Butler Building.

**Seabees active in Panama tour**



**NEW HYDRANT** — UT3 Dave Stallin prepares the slip coupling prior to in installation of a new fire hydrant at the U.S. Naval Station, Panama Canal. — Photos by CM1 Jerry Morrison, BU3N L. D. Yates



**CANAL TRANSIT** — A fishing boat is seen during part of its transit of the Panama Canal. It is entering the Mira Flores Locks, the final step before moving into the Pacific Ocean.



**SIDEWALK WORKERS** — Real sidewalk superintendents, Seabees use their concrete construction skills to put in a sidewalk. Workers on the project included (from left) CM3 A. W. Brogdan, BU2 B. Vargus, CE2 C. R. Allen and CE2 R. M. Gil.

**NWC Rocketeer**

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## Three teams share lead in league

Doc's, VX-5 and the Bears share the lead in Military League Softball play this week with identical 3-1 records. The Hornets also picked up a victory, their first of the season, last week.

### VX-5 17, Outlaws 3

Behind two homers and a single from Vians, the VX-5 squad made short work of the Outlaws on Wednesday. Harmon limited the losing squad to just seven hits while walking one person. An eight-run sixth inning ended any hopes the Outlaws had.

Eden's three singles and a pair of hits by Killinger paced the offense for the Outlaws. Killinger was the losing pitcher.

### Bears 14, CPOs 3

Staying in a first place tie, the Bears hammered the CPOs for 21 hits, including four off the bat of Huggins and a homer from Griffin to batter the CPOs 14-3. Jones picked up the win allowing just six hits in the seven inning contest.

Two hits in three at bats by Caldwell paced the CPOs' attack. Hileman added a double, their only extra base hit of the contest.

Five players had two or more hits for the Bears. Wynn added a pair of triples while Nolan and Cooper had a triple each in the easy victory for the Bears now 3-1 on the season.

### Standings

Team	Won	Lost
Doc's	3	1
VX-5	3	1
Bears	3	1
Outlaws	2	2
Devils	1	3
CPOs	1	3
NWCO's	1	2
Hornets	1	2

## Softball tourney

China Lake military personnel are eligible to compete in a Southern Pacific Sports Conference over-the-line (softball) championship tournament in San Diego this summer.

Official entries must be made before June 4. Call the NWC gym at NWC ext. 2334 for more information.

All military personnel on active duty for a period of more than 90 days are eligible to participate in this competition.



**CLOSE CALL** — As the on-deck batter and the umpire take a good look at the play, the Dodgers score in their China Lake Little League game against the Yan-

kees in the Minor Division. The Little League season is now past the halfway point for teams in the China Lake loop. — Photo by Steve Boster

## 'Queen and Court' face firefighters in charity game

Rosie Black is bringing her talented right arm and three top-flight softball players to China Lake on Thursday, June 6 at Schoeffel Field for an exhibition game against an all-star team of area firefighters.

"The Queen and Her Court," a four-person softball team, will tackle the firefighters in a game that benefits the Muscular Dystrophy Association as part of a fund drive for MDA by area firefighters.

Advance tickets are now on sale. Contact Mike Tosti at 375-9748 to purchase tickets. Tickets will also be on sale at the gate prior to the game.

"The Queen" has fanned more than 49,000 batters in a 21-year career that has seen her win more than 96 percent of the games played and pitch 1,039 shutouts.

Game time at Schoeffel Field on June 6 is 7:30 p.m.



## Sports

## Anglers take large numbers of catfish from Lake Isabella

by Mike Vradenburg

The most productive area anglers are fishing for catfish, bass, and crappie. Lake Isabella is open to night fishing, and many anglers seeking catfish during late hours are scoring big.

At night catfish swim slowly on the bottom searching for food. Catfish consume

the most food and make the biggest weight gains during this time of year.

Shore fishermen are doing the best and numbers of catfish 2 to 5 lbs. are being caught. A lantern or camp fire on shore provides light, and draws the catfish into the area.

Catfish start feeding at dusk and continue until early in the morning. Anglers are using 8 to 17 lb. test line, and no. 2 or no. 4 hooks.

The most commonly used baits are clams, nightcrawlers, mackerel, and anchovies. Catfish are good eating and easy to catch.

The best areas to fish are along the south lake shoreline, Brown's Cove, Piney Point, French Gulch, and Camp Nine.

Bass fishermen are doing the best in the morning. The most productive areas to fish are along the fence in Joughlin Cove, east of the fence in South Lake, in the submerged trees at Gautche Point, and along the rocky banks at Camp Nine and Lime Dyke. Most anglers are using nightcrawlers, rubberworms, and plugs.

Crappie fishing is good most of the day, and anglers trolling with plugs are the most productive. Other effective baits are worms, jigs, sassy shads, and spinners. Anglers doing the best are fishing at Camp Nine, Hanning Flat, Rabbit Island, South Lake, and Brown's Cove.

In the past the lights on the lake, green, yellow, and red indicated to the boaters you may remain on the lake; caution, move towards shore; and danger, get off the lake.

Recently the law was changed, and boaters may now remain on the lake in windy weather.

The lights are still flashing, but it is only for your awareness. The wind at Lake Isabella comes up quick, and when the wind starts, know your boat's capabilities and act accordingly.



**WINNERS** — Top finishers in the NWC Recreational Services Department sponsored Youth Mini-Triathlon received certificates. The top three placers in each

event's age group were honored with the certificates presented following the day's action on May 18. They competed in running, swimming, and bike races.



## The Skipper Sez...

### QUESTION

**Civilian Employee** — I was just at the cafeteria in Mich. Lab and I saw a gentleman with a contractor discussing confidential material with the material lying open on one of the tables. I don't believe that this is the proper place to be conducting classified conversations as well as having the material in view for all to see, especially if you're standing in line to get something to eat. I'm not sure what I should have done other than remind the individual about it, but I don't believe that's a proper place to be conducting that kind of business.

### ANSWER

First, thank you for taking your responsibility for security seriously and bringing this to my attention. Proper procedures to follow in reporting this and similar situations are:

a. Identify individuals involved and the location. Personnel should be wearing security passes.

b. Call the Information Security Manager, NWC ext. 2412/2375, who will initiate a preliminary investigation. It is of utmost importance that the individuals be identified and reported to the Security Department so that any possible compromise of classification information may be investigated.

Proper procedure for discussions of classified information require that discussions occur only in facilities that prevent unauthorized persons from gaining access. In work spaces, discuss classified information only with appropriately cleared persons with a "need-to-know." Take particular care when there are visitors or maintenance support personnel in the area.

An article on security for classified discussions will be included in our next security bulletin which may help to prevent a future recurrence of this situation.

## AND FURTHERMORE...

From time to time I'd like to use this column as an adjunct to your questions and concerns, and to share of my own thoughts about issues that have come to my attention.

One of these issues currently is with regard to the role and the image of the China Lake Police Department. As in any community, I hear both positive and negative remarks about our police force. Before I go any further, please understand that I believe in and support CLPD implicitly. At the same time, I have my own sensitivities about the function and image that a police force should perform and protect.

With these basic thoughts in mind, I met with the CLPD in two sessions last week so that I could share my feelings with them first hand. From my perspective, the meeting went well. The feedback I received was positive and professional.

As a result of that meeting, I better understand the tremendous responsibility that the CLPD have for protecting and serving all of our citizens, as well as the 1700 square miles that constitute the Naval Weapons Center. They have a very difficult job to perform — one which can require that they routinely risk both life and limb. It is important that each of us understands and appreciates both the difficulty and responsibility that are borne by our police force.

I am firmly convinced that with an improvement in the level of respect between our citizens and our police, we can make China Lake a better place to live and work.

All China Lakers, including military personnel, civilian employees, and their dependents are invited to submit questions to this column. Such queries must be in good taste and pertain to matters of interest to a large segment of the China Lake community. Answers to these questions are directly from Capt. K. A. Dickerson. Please call NWC ext. 2727 with your question and state whether you are a military member, civilian employee or dependent. No other identification is necessary. Since only three or four questions can be answered in the Rocketeer each week, anyone who would like to ensure getting an answer to a question may leave name and address for a direct contact, but this is not required otherwise. There is no intent that this column be used to subvert normal, established chain-of-command channels.



**INVISIBLE DRIVER?** — The gate guard to Armitage Airfield does a double take as the driverless Department of Energy's Jeep Cherokee station wagon pauses at the airfield gate so the passenger can show his pass. Actual control of the vehicle is with the control box in the hands of Chuck Pierce, who is standing back of the guard.

## Vehicle converted to RPV for Department of Energy by NWC

Drivers passing by one of the parking lots at Armitage Airfield recently have been startled to see an empty Jeep Cherokee station wagon apparently driving itself around the lot.

They need not have been concerned — the four-wheel drive vehicle was under the careful radio control of Chuck Pierce and Dick Bennett of the Systems Engineering Branch of the Aircraft Department.

The Center's expertise with remotely piloted vehicles enabled NWC to make a bid of only \$20,000 to turn the 1980 Jeep Cherokee into an RPV; commercial firms also bidding on the project had bids more than five times as much.

Installing radio controls in the Jeep took about six months; the controls had to be installed in such a way that the car can be driven conventionally as well, with the changeover from conventional to radio control taking less than 5 minutes.

The vehicle can be controlled from more than 3 miles away. According to Bennett and Pierce, the limiting factor is how far the terrain can be seen so that the car can be safely driven by the remote control.

While previously remotely controlled vehicles developed at NWC such as the dune buggies were designed to be used as targets, the Jeep Cherokee will not suffer the same fate.

## Reservations still being taken for Thompson, McLean luncheon

Reservations will continue to be taken through next Tuesday, June 4, for a luncheon planned for the L. T. E. Thompson and William B. McLean Awards.

Presentation of the Thompson and McLean Awards will take place on Friday, June 7, during a luncheon that will get underway in the Mojave Room of the Commissioned Officers' Mess, starting at 11:30 a.m.

The Thompson Award is the Center's highest recognition for outstanding individual achievement. It honors the memory of Dr. Thompson, the Center's first Technical Director, and is given for notable contributions to the advancement of ordnance toward fulfillment of the mission of

NWC — thereby aiding the forces of the U.S. Navy.

The McLean Award is given in memory of the man who followed in the footsteps of Dr. Thompson as NOTS Technical Director, and who is best known for evolving the original concept of the Sidewinder air-to-air missile. This award was established to recognize outstanding creativity among employees in furthering the mission of the Center, as evidenced by significant inventions.

Reservations for the awards luncheon can be made by calling either NWC ext. 2018 or 2592 by 11:30 a.m. next Tuesday. Luncheon choices are chef salad or roast beef (both \$5).

## Results of Organizational Excellence Survey

The NWC Organizational Excellence Survey (previously known as the Mini-A) provides information on the level of employee satisfaction with the way things are done at NWC. This year's survey was sent out at the end of February.

The Management Analysis Branch (Code 0824) is responsible for administering and analyzing the survey. Survey responses are protected to ensure employee confidentiality. Only the Code 0824 analysts working on the survey have access to the questionnaire.

The survey data have been analyzed in terms of NWC as a whole, looking at the responses of all employees, and also in terms of the responses of employees in various employee groups and/or in the various departments. A summary of the data for NWC as a whole is presented here. Code 0824 will soon be briefing all department heads, providing each with data for their department.

The first table shows the response rate, by employee group, to this year's survey.

### RESPONSE RATE BY EMPLOYEE GROUP

	On-Board	Responses	% Responses
Scientists and Engineers	1872	891	47.6
Technicians	882	387	43.9
Clerical	891	241	27.0
Administrative	557	263	47.2
Technical Specialists	323	199	61.6
Wage Grade	582	164	28.2
Police & Fire	134	74	55.2
Other/Not Specified		521	
<b>Total</b>	<b>5241</b>	<b>2740</b>	<b>52.3</b>

This year's survey had 50% fewer questions than last year's, with the essential data being retained. To help summarize the data, the survey questions have been grouped into ten categories, and the responses to the questions in each category have been tabulated under "Positive", "Neutral", or "Negative". For each of the ten categories, the table below displays the number of "Positive" responses as a percent of the total responses for all of NWC. Where there is no entry, the value for the category was not calculated because all of the questions in the category were not asked in that year.

### POSITIVE RESPONSE PERCENTAGES FOR ALL NWC EMPLOYEES

	Survey Date					
	12/79	12/80	12/81	11/82	12/83	2/85
Employee-Supervisor Relations	63	65	64	63	65	67
General Management	61	64	63	63	65	64
Classification and Performance Evaluation System	-	-	-	63	64	61
Organizational Climate (NWC Standards, Morale, Sense of Importance)	-	-	-	59	62	60
Trust of Supervisor and Management	-	54	51	50	54	53
Fairness of Recognition	-	-	35	38	40	42
PRB Process	-	-	-	37	40	38
Demonstration Project	-	-	-	32	34	37
Dealing with Marginal Employees	24	27	30	31	32	35
Personnel Department Services	28	33	35	36	36	31



**FIRST OF ITS KIND** — A Phantom jet, newly converted to becoming a remotely piloted vehicle, zips through NWC skies in a test flight recently. The QF-4 is now

undergoing technical evaluation at the Pacific Missile Test Center, Point Mugu. It is expected to be operational in FY 86.

## QF-4 newest product of FSAT program. . .

(Continued from Page 1)

notes, "and we have had difficulties, but it's doing well now — and we expect the first operational target to be ready for use in early FY-86. Plans are being made to produce seven QF-4s each year as long as these Phantoms come out of the inventory."

That the F-86 aircraft is no longer in the inventory causes some special problems.

By the time that an aircraft is sent to NWC to be converted into the FSAT, it is "generally worn out. The first step is an overhaul, a task that often calls for cannibalizing other aircraft for parts or having to manufacture unique parts since replacements are seldom available.

No government or depot level capability to repair these craft existed, Bowen says, so the Center's Aircraft Department had to establish its own capability.

Originally the work was done by military personnel stationed at the airfield, but it is now performed by aircraft maintenance contractors, with Navy personnel serving in a quality assurance role. Current contractor is Kentron International.

Once the aircraft is again functional, drone-peculiar equipment is installed, and the aircraft is tested to ensure it can perform as required. Cost of overhaul and

### CL Police reports. . .

Two grand thefts were reported during the past week. Unknown persons removed a computer, monitor and disc drive from a trailer in the Michelson Laboratory complex. The combination was valued at \$4,431. In addition, unknown persons took four computer cartridges from Warehouse 10; the cartridges cost \$658.08.

+++  
A driver, stopped on a traffic stop, was found to be under the influence of alcohol. The driver was arrested, held for 5 hours, cited and released. Another driver, stopped on a traffic stop, was found to be driving with a suspended license. This driver was also cited.

+++  
A juvenile at Murray Junior High School was found to be under the influence of a narcotic. The juvenile was arrested, and subsequently released to his parents.

+++  
A victim called police to report that her husband had hit her, causing her to fall and hurt herself. Police arrested her spouse, and released him to the military at the direction of the Naval Investigative Service.

+++  
Unknown persons entered the victim's residence and removed children's toys valued at \$100.

+++  
Unknown persons broke the window of a victim's automobile. The damage is \$50.

conversion is about \$350,000.

These drones can be controlled well enough from the target control system on the ground that they can perform almost any maneuver a piloted aircraft can perform.

John Haynes of the Aircraft Department is responsible for the complex and unique target control system, which has recently been moved into the Range Control Center.

Currently, two pilots, both retired Navy aviators, are qualified to "fly" the drones.

The first, Harlan Reep, probably has more experience in flying drone aircraft than anyone else in the world, says Bowen.

"He can fly very precise flight profiles, and, in addition, has saved the government fantastic amounts of money by returning

## Mountain Rescue Grp. members carry injured hiker down mountain

China Lake Mountain Rescue Group members were a most welcome sight to an injured hiker on the afternoon of May 20.

Laura Ganter, 29, slipped May 19 and fell when she tried to go to the assistance of L. A. County Sheriff's Deputy Sean Collinworth, 29, who dropped about 50 feet when a rock he was holding broke loose. He then bounced down another approximately 200 feet and injured his ankle.

Ms. Ganter slipped on ice at University Peak, and fell several hundred feet, sustaining abrasions on her head, shoulder, right arm, right side, a sprained or fractured ankle, and a fractured right thumb.

They were able to work their way down to their base camp at Bench Lake, where they spent the night.

On Monday morning Collinworth decided he was the less seriously injured and hobbled out for help.

CLMRG was called at about 1:30 p.m.

## Parenting workshop slated June 6; prior sign-ups necessary

A workshop on parenting will be offered under the sponsorship of the Federal Women's Program on Thursday from 8 a.m. until 4 p.m., June 6, at the Heritage Village Inn in Ridgecrest.

Instructors for the workshop will be Polly Ferraro and Kelly Newton. They will focus on child care with the emphasis that this constitutes more than just baby sitting, and will also discuss child care resources for the working parent.

Seating in the workshop is limited. Anyone who wishes to attend should first clear with his or her supervisor that attendance on that day would be all right, and then should telephone NWC ext. 2348 between 2 and 4:30 p.m. and leave name, code and work phone number on the code-a-phone recording.

slightly damaged aircraft for repeat shots.

When a drone is to be brought back, a chase pilot visually inspects damage and reports this to the remote control pilot. If it appears that the drone may be reusable, its maneuverability is tested over a remote part of the Center before it is returned to Armitage Airfield. One such QF-86 was finally downed after its 17th flight recently.

Dick Wright, the other qualified pilot, is also rapidly becoming extremely competent in this esoteric skill, and also now brings back FSATs that have significant damage.

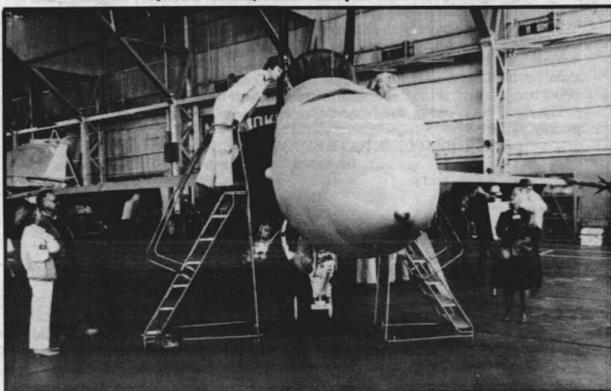
Program manager for the QF-86 program is Les Robison, Code 6101A, and Mark Backes, Code 6101B, heads the QF-4 program.

Monday, and the advance team of Bob Huey, Bob Adams, Bart Hines and Linda Finco reached the victim by 5:30 that afternoon.

Since Ms. Ganter obviously needed to be carried out, other team members joined them before beginning the long climb down. (She had developed muscle spasms in her back, and was having difficulty breathing because of a possible fractured rib.)

Other team members, including team leader Daryl Hinman were Dennis Burge, Mike Mason, Larry Gleason, Tom Sakai, Andrew Mitchell, Larry Siebold, Bruce Bonbright, Bill Martin, Mike Wisecarver, Carol Van Verst, Bob Sinclair, Paul Deruiter and Larry Ingle. Carol Burge and Barbara Slates served as coordinators in town.

By 8:30 p.m., CLMRG team members had Ms. Ganter ready to be transported.



**INTERESTED VIEWERS** — Members of the Lincoln Club of Santa Barbara, a group of semi-retired, concerned citizens, toured the Center recently. Among the areas visited was the airfield, where they peered into the cockpits of various aircraft. — Photo by PH2 Rick Moore

## Local servicemembers found guilty in 2 recent courts-martial

As a result of courts-martial held during May, two military members of the Center's contingent will receive bad conduct discharges.

At a special court-martial held on May 8 at the Navy Legal Services Office Detachment, Port Hueneme, one NWC service member was charged with conspiracy to buy and distribute cocaine on board the Center, a violation of Article 81 of the UCMJ.

Specified as violations of Article 112, were, first, that he wrongfully possessed cocaine; specification 2, wrongfully introduced cocaine aboard the Naval Weapons Center, China Lake; specification 3, wrongfully distributed cocaine aboard NWC, China Lake; specification 4, wrongfully used cocaine; and specification 5, wrongfully used marijuana.

He was convicted of all charges and specifications except for specification 1 of the second charge. He was therefore sentenced to confinement at hard labor for 4 months, forfeiture of \$400 pay per month for 4 months, reduced to pay grade of E-1, and a bad conduct discharge.

The second servicemember was tried at NWC in a court-martial held on May 23. The accused was charged with violation of Article 109, wrongfully damaging a color television set that was the property of another servicemember. In addition, she was charged with a violation of Article 121, larceny of 10 audio cassette tapes worth \$90; one bottle of perfume, value \$10; one bottle of fingernail polish, value \$3; one Kodak 4100 disk camera, value \$42.99; one gold chain bracelet and one gold chain necklace, value \$338, the property on another servicemember.

A second specification charged larceny of \$300 cash, the property of another servicemember.

The individual was found guilty and convicted of all charges and specifications. She was awarded restriction to NWC for 60 days, forfeiture of \$300 per month for 2 months, reduction in pay grade to E-1, and a bad conduct discharge.

## Newsletter class to be offered at college for next 2 months

Cerro Coso Community College will offer an eight-week Journalism course on "Newsletter Composition," beginning June 10.

This one-unit class will be taught by Therese Hall and will cover the production of social service newsletters. The class will meet Monday, Wednesday, and Friday afternoons, from 3 to 5:30 p.m., at Sunshine House.

New and continuing students may register June 3 through 6. Registration times are 9 a.m. to 1 p.m. and from 2:30 to 6:30 p.m. No registration appointments are necessary.

## VX-5's outgoing commanding officer presented medals to six outstanding individuals within the squadron

Six of the best in Air Test and Evaluation Squadron Five (VX-5) were honored at last month's change of command ceremonies when Capt. R. P. Flower, outgoing commanding officer, presented them with Navy Achievement Medals.

DP3 Caroline Nilsen, recently named VX-5's Sailor of the Month, received the medal for superior performance of duty in developing a data processing center to support the AV-8B Operational Evaluation (OPEVAL). The citation reads in part "Through her innovative programs, DP3 Nilsen provided real time, hard copy data analysis, effecting the efficient attainment of test objectives."

Aviation Maintenance Administrationman Second Class Philip W. Vyce was

honored for his work as maintenance analyst for the AV-8B OPEVAL. "He demonstrated leadership skills and keen intellect through his ability to set goals and formulate plans for their realization," said Capt. Flower in the citation accompanying the award.

"During the initial operation test and evaluation of the Hellfire missile, A02 Patrick Saintostil personally conducted all AH-1 armament system checks and weapon preoperational tests prior to every test flight," read the citation. In addition, he was credited with being an important factor in the successful completion of his phase of testing.

Gunners Sergeant Robert A. Dearing (USMC) was singled out for a Navy

Achievement Medal for his performance while serving as suitability analyst for the AV-8B OPEVAL. The citation read in part "His exceptional devotion to detail resulted in early detection of the many incongruities inherent in new weapons systems, and stimulated appropriate corrective measures that helped make the AV-8B OPEVAL a success."

The Navy Achievement Medal went to AQ1 Henry J. Steimil for his work as Individual Material Readiness List (IMRL) manager. He devised and implemented a model program for managing items required. The citation notes he "developed an exceptionally functional system of storage and tracking that includes use of computerized bar codes. His program

maximizes the accountability and employment of more than \$10 million worth of tools and equipment held at VX-5."

Lt. Deborah L. Oakes received a Navy Achievement Medal for work as a technical writer during a period of unprecedented technical report workload for numerous CNO directed projects. "She quickly became the squadron expert on technical reporting style within the Naval aviation community. Lt. Oakes sustained an exhaustive level of personal effort resulting in publication of 15 major and numerous minor documents encompassing over 2,000 pages of text," according to the citation.

Capt. Flower made the presentations on behalf of the Secretary of the Navy.



## Pendleton elected to post by Reserve Officers Assoc.

Captain Bob Pendleton, USCGR (Ret.), of Ridgecrest was elected Executive Vice President of the Department of California, Reserve Officers Association, at the Department convention, in La Jolla. He will assume the position of Department President for California next year.

Pendleton has prepared for his current position through more than seven years of active participation at the local, state and national levels. He is currently the National Chairman of the Coast Guard Affairs Committee.

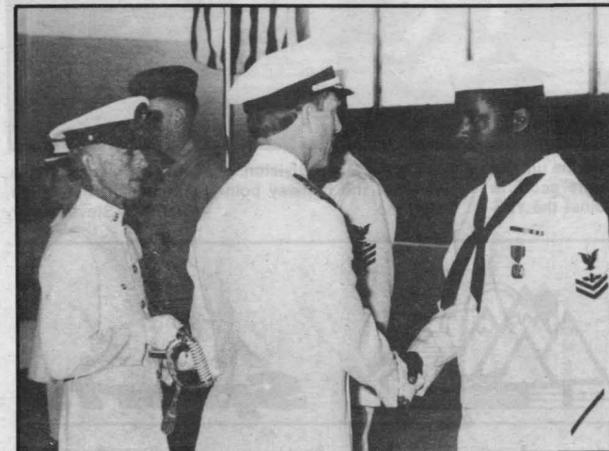
ROA is chartered by Congress "To support a military policy for the United States that will provide adequate national security and to promote the development and execution thereof." ROA has 125,000 members, consisting of military officers,

active, reserve and retired, from all uniformed services. The Department of California has 12,000 members in 49 chapters.

In 1982 Pendleton was Charter President of the Mojave Desert Chapter, with membership from Ridgecrest, Lancaster, Palmdale and Victorville areas.

He holds a Ph.D. in mathematics from Indiana University, a J.D. from Loyola University of Los Angeles, and an A.B. from Oberlin College. A member of the California Bar Association, he and his wife Elsa have resided in the Indian Wells Valley since 1981.

Currently he is an Operations Research Analyst in the Warfare Analysis and Requirements Office of the Weapons Department.



**NAVY ACHIEVEMENT MEDALS** — Capt. R. P. Flower, former commanding officer at VX-5, presented six Navy Achievement Medals to members of the squadron during change of command ceremonies last month. Assisted by Master Chief Gerald Linde, Capt. Flower is seen making the presentation to A02 Patrick P. Saintostil. Lt. Deborah L. Oakes (far left) GYSgt Robert A. Dearing, AQ1 Henry J. Steimil, AM2 Philip Vyce and DP3 Caroline F. Nilsen also received medals from Capt. Flower, acting for the Secretary of the Navy.

## Crill Maples guest speaker for SAME

The regular monthly meeting of the Society of American Military Engineers will be held at the Commissioned Officers' Mess on Wednesday at 11:30 a.m.

The guest speaker for the meeting will be Crill Maples, head of the Ordnance Test and Evaluation Division of the Range Department. He will talk about various programs including All-Up Live Environmental and Safety Tests, X-Ray and static firing of missiles, bombs and propulsion units.

All members and guests are encouraged to attend. Anyone seeking more information should contact LCdr. J. L. Bullock, 3411, ext. 449.

## Safety stressed

Traffic accidents are the leading cause of death for persons under age 45, and the fourth leading cause of death for all age groups. Approximately 4,500 persons are killed and almost 300,000 injured annually on California's roadways.

For the most part, traffic accidents are no accident; they are the direct result of inattention to, or disregard for, some important factor in the traffic safety environment.

Many deaths and injuries could be significantly reduced if all roadway users would act responsibly by obeying traffic laws and using protective equipment available.



**NEW OFFICERS** — China Lake Branch 95 of the Fleet Reserve Association has installed officers for its upcoming year. Officers and their titles, include (front row, l. to r.), Verne C. Tracy, board of directors member; MSgt. Edward Alba, USMC, board member; A. C. ("Skip") Bennett, vice president; and AC1 Tina L. Evans, USN, Opel Anders, and Arthur L. Trent, board

members. In the second row, l. to r., are R. L. Brad-dock, Jr., past president; ASCS H. J. ("Joe") Tavare, USN, president; James C. Eblen, South West Regional Parliamentarian, installing officer; Hosey Mays, South West Regional vice president; and Wallace E. Baker, secretary/treasurer. Active duty and retired military are welcome to join. — Photo by Alan Ball

context; an analysis of consumer wants, motivation and purchasing power; and introduction to and formulation of optimizing mixes between product, pricing, distribution, and promotional variables.

**INTRODUCTION TO SUPERVISION**

24-28 June, Monday-Friday, 0800-1600, location to be announced. By: Donna Eller Jones, Office of Personnel Management.

Scope: For first-level supervisors needing training in basic supervisory ideas. The class, organized into the management functions of planning, organizing, directing, and controlling, will provide you with fundamental grounding in practical modern concepts of supervision. When you complete this course you should be able to perform major supervisory duties and responsibilities better; use varied leadership methods in a government setting; implement federal personnel management policies and regulations; apply modern employee motivational concepts; use staff resources effectively; and formulate training and development plans.

Deadline: 7 June.

To enroll in this class submit Training Request Form (NAVWPNCEN 12410/73) via department channels to Code 094. (Code 094)

**ENGR 355 - THEORY OF DIGITAL MACHINES (3 units)**

3 June-30 July; Mondays 1000-1230, and Tuesdays 0730-1000; Cerro Coso Community College. By: Professor Robert Wong, CSUN.

Prerequisites: Math 6B

Scope: An introduction to digital systems. Topics include number systems, binary codes, Boolean algebra, combinational logic design, logic minimization techniques, sequential circuits design, arithmetic operations, data transfers using register transfer notation, memory devices, digital system organization and digital subsystems design.

Text: *Digital Logic and Computer Design*. Mano. Prentice-Hall.

Note: this is a required course for an undergraduate degree in electrical or computer engineering.

**ENGR 355L - THEORY OF DIGITAL MACHINES LABORATORY (1 unit)**

3 June-29 July, Mondays, 1400-1700, Cerro Coso Community College. By: Professor Robert Wong, CSUN.

Scope: Laboratory for Engr 355 listed above.

**Personnel Department sets up eight service teams for Center**



MARGE STANTON JULIE RODRIGUEZ ROBERT FITZPATRICK KATHY KRAFT

This is the last of 8 articles featuring the personnel servicing teams. The Personnel Department recently organized the Service Division into 8 personnel servicing teams. Each team is composed by 4 members: 2 Personnel Management Advisors and 2 Personnel Assistants. This week the spotlight is on the team providing personnel services to Codes 24 and 31. Team members are:

Robert Fitzpatrick came to NWC in January 1984 from the Agriculture Research Service in Peoria, Illinois where he was a personnel management specialist. Robert has over 14 years of government service and over 5 years experience as a personnel management specialist. Robert is a graduate of Arizona State University where he obtained a BS in Management. He currently is working on his MPA from Cal State Bakersfield. He now serves as the lead PMA of the team responsible for providing personnel services to Codes 24 and 31.

Kathy Kraft transferred to the center in May 1985 from the Naval Supply Center in Oakland, California where she served as supervisory staffing specialist. Prior to that she spent three years as a staffing specialist working for the Army in Alaska. She has a Bachelor's and Master's degree in Business Administration and is currently serving as back-up PMA.

Marge Stanton has been with the Personnel Department since June 1976. She has 9 years personnel experience, 7 of which has been at NWC and 2 years in Korea. She is currently the primary personnel assistant for Codes 24 and 31.

Julie Rodriguez is the newest member of the team, joining the Personnel Department in early May. Prior to that, Julie was in the Navy stationed at VX-5 since 1980, where she worked in military personnel administration. Julie is currently working on her Associate Degree in Business Administration at Cerro Coso Community College.

**Where the deductions go**

Center personnel may be interested to know what money is being withheld from their pay for Social Security and the Civil Service Retirement Fund (CSRF).

Civil Service employees hired before Jan. 1, 1984 contribute 7 percent of their base pay to the CSRF. They contribute 1.35 percent of base pay into Social Security for Medicare Tax. In 1985, Medicare tax will be withheld on the first \$39,600 in earnings; no further Medicare tax will be withheld until January 1986.

Civil Service employees first hired after Jan. 1, 1984 or hired after Jan. 1, 1984 with a break in service of more than one year contribute 7.05 percent of their base pay into Social Security (which includes Medicare tax). They also contribute 1.3 percent of base pay into the CSRF.

Total contributions for both groups is 8.35

percent of total salary.

The Social Security Act of 1983 required all Federal employees hired after Jan. 1, 1984 to contribute to Social Security. The Congress subsequently (November 1983) modified the contribution to the CSRF for new employees from 7 percent to 1.3 percent of base pay.

This reduced contribution is to be in effect until Dec. 31, 1985, at which time the Congress intends to have a supplemental retirement system in effect for those employees hired after Jan. 1, 1984.

The Civil Service Retirement System is currently under study by Congress and significant changes are expected to be forthcoming.

Anyone with any questions can telephone Eileen Baird at NWC ext. 2018 or 2592 for further information.

**Recent additions**

CODE	NAME	TITLE
2522	Cline, Gayle A.	Clerk-Typist
2522	Martinez, Trudy A.	Clerk-Typist
2522	Myklebust, Ralph R.	Purchasing Agent
26414	Gomez, Frank M.	Painter
26418	Byrd, James T.	Carpenter
26418	Fox, Alpheus D.	Carpenter
3431	Pelz, Craig L.	Librarian (PS&E) Supvy.
3511	Andrews, R. Bradley	Computer Scientist
3544	Eiserloh, Peter R.	Physicist
3554	Beck, Kenneth E.	Electronics Tech.
3621	Olmstead, Karl G.	Mechanical Engr.
3651	Pate, Kelly D.	Clerk-Typist
3651	Turnbaugh, Jo E.	Engrg. Data Mgt. Spec.
3681	Pretto, Victor E.	Engrg. Tech.
3686	Collins, Nancy A.	Mechanical Engr.
3687	Ceniceros, Janet M.	Secretary (Typing)
3853	Wilson, William S.	Research Chemist
3907	Swanson, Doris P.	Clerk

**Recent departures**

1422	Oswald, Tommy L.	Computer Scientist
25221	Fuller, Nancy J.	Lead Purchasing Agent
26416	Gable, Jack M.	Laborer
26422	Foster, Joseph E.	Boiler Plant Equip. Mec.
26429	Harper, Melvin D.	Laborer
3108	Rose, Michael E.	Operations Research An.
3112	Day, Donna J.	Computer Operator
3302	Wise, Billie W.	Security Clerk
3453	Holmes, Dawn G.	Clerk-Typist
3662	Scarbrough, Rhonda L.	Secretary (Typing)
385	Amster, Adolph B.	Research Chemist Supvy.
3918	Roloff, Vicki L.	Secretary (Typing)
3957	Gutierrez, Raul E.	Electronics Tech.
6103	Regan, Michael D.	Engrg. Tech.
6403	Sanford, Russell L.	Aerospace Engrg. Tech.



**Personnel News & Notes**

No. 15

Naval Weapons Center, China Lake, California 93555-6001

**Promotional Opportunities**

Applications for positions listed in this column will be accepted from current, permanent NWC employees and from eligible employees of attached activities who are permanently assigned to NWC unless otherwise specified in the ad. Alternative recruitment sources may also be used in filling these positions; vacancies are subject to restrictions imposed by the DOD Priority Placement Program. Applicants must meet all legal and regulatory requirements including minimum qualification requirements by the closing date. Applicants will be evaluated on the basis of experience, education, training, performance ratings and awards as indicated in the SF-171 along with any tests, medical examinations, performance evaluations, supplemental qualification statements and/or interview that may be necessary. Career ladder promotions are subject to satisfactory performance and cannot be guaranteed.

**APPLICATION PROCEDURES:** Candidates must submit a current SF-171, along with a supplemental qualifications statement (if required), and should submit a copy of their latest Annual Performance Evaluation if relevant to the vacancy. If a supplemental statement is not required, candidates are encouraged to submit additional information which addresses the specific Knowledges/Skills/ Abilities (KSAs) cited in the ad. Write the position title/series/level and announcement number of the SF-171 and all attachments. Be sure that your forms are complete and accurate since you cannot be rated on missing data nor will you be contacted for additional information. Be certain the SF-171 and supplement are dated and have original signatures in ink.

All applications will be retained in the vacancy announcement file; they will not be returned or filed in official personnel folders. Applications and supplements are accepted at the Reception Desk, Room 100, Personnel Department, 505 Blandly. Ads close at 4:30 p.m. on Friday, one week after the announcement, unless otherwise specified. Applications received after 4:30 p.m. on the closing date will not be considered. The Naval Weapons Center is an Equal Opportunity Employer; selections are made without discrimination for any nonmerit reason.

**No. 08-022, Computer Specialist/Analyst/Programmer, DS-334-1/2/3 or DP-334-3, Code 084** — Incumbent provides support in all areas of data processing within Code 08. These duties include analyzes technical computer system requests and performs feasibility studies; presents documented study finding, alternative solutions, and recommendations; performs system design including data gathering and system specifications; develops application programs, tests, and documents plans; and implements new applications or conversions to new systems. Job Elements: DS 1: Knowledge of data processing functions; ability to learn technical data and terminology; learn programming languages such as Cobol; communicate in writing and communicate orally. DS-2/3 and DP 3: Ability to organize large quantities of data; communicate in writing; communicate orally; interface with technical and functional personnel at all levels and write computer programs in Cobol. Promotion potential to DP-3.

**No. 08-021, Clerk-Typist/Plant Account Tech., GS-322-503-3/4, Code 08613** — This position is located in the Plant Account Office, Accounting and Disbursing Division, Office of Finance and Management. Incumbent is responsible for a variety of Plant Property duties designed to support Center departments in their need for factual, timely management information in areas of acquisition transfers and dispositions involving plant property. Job Elements: Ability to deal effectively with people; ability to work accurately with figures; knowledge of accounting principles and procedures; and ability to work independently. Promotion potential to 6, but not guaranteed. Status eligibles accepted.

**No. 24-126, Supervisory Police Officer, GS-083-8, Code 2413** — Position is top level functional supervisor over Police Division patrol operations. Ensures all patrol areas and guard posts are manned, service calls are promptly handled, patrol objectives are met and that patrol personnel utilize most efficient methods and techniques to accomplish objectives. Ensures subordinates are adequately trained and equipped to perform their duties. Conducts initial review of reports written by officers and participates in patrol operations and investigations in situations requiring the presence of higher ranking officer. KSAs: K — of all aspects of police work, particularly patrol procedures and criminal investigations; of State and Federal criminal law; of riot and crowd control tactics. A — to communicate effectively both orally and in writing; to prepare clear and concise reports. Willingness to support Federal EEO policies and goals.

**No. 25-070, Administrative Officer, DA/DP 341-3, Code 2502** — Position is that of Head of Staff for the Supply Department. The incumbent is responsible for the department's administrative functions in the areas of personnel, finance, facilities, communications, claims investigation, and safety and security; and shares responsibilities for analysis, formulation and implementation of department policies and procedures. Provides supervision to department administrative staff. Elements: Experience in and knowledge of Center administrative processes. Ability to plan, organize, coordinate, and complete a variety of administrative tasks; ability to communicate effectively with all levels of personnel, both orally and in writing; skill in dealing with people. Promotion potential to DP-3.

**No. 25-071, Lead Purchasing Agent, GS-1105-6/7, Code 2522** — Responsible for providing training and guidance to Purchasing Agents in the section, and insuring that proper policies and procedures are utilized. Incumbent assists management in planning assignments, improving work flow and service rendered, promoting job satisfaction and increasing productivity. Incumbent functions as a contracting officer and ordering officer, is expected to be forward-thinking and service-oriented in exercising all responsibilities. Elements: Knowledge: DOD and NWC Small purchase policies and procedures; negotiation techniques; methods and requirement for price analysis. Ability: to deal effectively with personnel at all levels work without close supervision; lead a work group. Skill in utilizing a computer terminal and management information system is desirable. Promotion potential to GS-07.

**No. 26-157, Production Facilities Clerk, GS-303-4/5, Code 2611** — 2 vacancies. Responsible for reception, maintenance and control of all work requests generated on the Center, and for initial data entry and maintenance 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 Elements: Knowledge of the Public Works maintenance function, of the P.W. work request processing system. Ability to deal effectively with others, and to operate data processing equipment sufficient to perform data entry. If filled at the GS-4 has promotion potential to GS-5.

**No. 31-173, Interdisciplinary Electronics Engineer, DP-855, Physicist, DP-1310, Mathematician, DP-1520, Operations Analyst, DP-1515-3/4, Code 3158** — This position is that of project engineer for advanced development of target recognition systems for missiles. The incumbent will be responsible for the transition of current targeting technology into air-to-air and air-to-surface missiles, especially anti-shiping missiles. The task requires experience in missile guidance systems, signal processing, and project management. Experience and training in radar systems, pattern recognition, infrared sensor (FLIRs/IRSTs), advanced computer systems, tactical computers, structured software design, ADA, and systems or operations analysis would be beneficial. The Targeting Division (Code 315) will be looking at a possible parallel implementation of targeting system with and without VHSIC. Elements: skill in algorithmic system development, project engineering/management, signal processing, and analysis. Ability to produce professional reports and briefings. Ability to work well with management and highly technical personnel. Promotion potential to DP-4 but not guaranteed.

**No. 35-064, Engineering Data Management Specialist, DS-301-1, Code 3515** — Incumbent will carry out procedures relating to configuration management of EW tactical embedded software. Procedures include handling of documents and computer media with an emphasis on automated (computer data base) CM programs. Software library maintenance will be included. KSAs: Knowledge of computer operation (OS language, editor, word processor, etc. Ability to initiate and maintain software CM data base program. Ability to deal with technical personnel at all levels, on and off Center. Promotion potential: DS-2.

**No. 35-064, Engineering Data Management Specialist, DS-301-1, Code 3515** — Incumbent will carry out procedures relating to configuration management of EW tactical embedded software. Procedures include handling of documents and computer media with an emphasis on automated (computer data base) CM programs. Software library maintenance will be included. KSAs: Knowledge of computer operation (OS language, editor, word processor, etc. Ability to initiate and maintain software CM data base program. Ability to deal with technical personnel at all levels, on and off Center. Promotion potential: DS-2.

**No. 35-064, Engineering Data Management Specialist, DS-301-1, Code 3515** — Incumbent will carry out procedures relating to configuration management of EW tactical embedded software. Procedures include handling of documents and computer media with an emphasis on automated (computer data base) CM programs. Software library maintenance will be included. KSAs: Knowledge of computer operation (OS language, editor, word processor, etc. Ability to initiate and maintain software CM data base program. Ability to deal with technical personnel at all levels, on and off Center. Promotion potential: DS-2.

**No. 36-251, Administrative Officer, DA-341-1/2, Code 36017** — Assists the COTR in administration of the financial and administrative aspects of the COTR's office. Responsible for operation of the automated information processing/interface system,

preparation and review of reports for Center and department personnel, preparation of award fee reports, ensuring that all contractor CDRL data items are accurate and timely, establishment and monitoring of surcharge budget, establishment and maintenance of COTR files, tracking delivery order status, and interfacing with delivery order technical representatives across the Center. Elements: Knowledge: of Center administrative process; of Center financial and procurement systems. Ability: to use computer terminal to input/print out data; to communicate effectively orally and in writing; to deal effectively with people; to exercise initiative; and skill in data analysis. Promotion potential to DA-2.

**No. 36-250, Mechanical/Electronics Engineer, DP-830/855-2, Code 3683** — Supports Engineering functions in the Metrology Branch (a type-three Navy Calibration Laboratory). Incumbent will automate existing manual calibration systems and write programs for the computer controllers, perform engineering measurement procedures, develop statistical analysis of measurement systems, and evaluate calibration systems in contractor's manufacturing facilities. Knowledge of the Navy Calibration Program and familiarity with the use of automated test equipment desirable. Looking for ability to analyze measurement systems to determine accuracy and the interaction of errors, to program instrument system computer controllers, to interact with personnel across a broad spectrum of technical disciplines, to communicate clearly both orally and in writing, to deal effectively with all levels of management and engineering personnel in both the government and industry. Promotion potential to DP-3. Status eligibles may apply.

**No. D-380-010, Aerospace Engineer, DP-861-3, Code 3892** — This position is located in the Propulsion Research Branch of the Engineering Sciences Division. Incumbent conducts experimental and theoretical turbulent flow research related to air-breathing combustion and jet noise. Relevant Criteria: Knowledge of basic understanding of shear flow development through vortex shedding and vortex interaction; knowledge of experimental techniques in large-scale structure research; knowledge of nonlinear theory related to share layer dynamics. Status eligibles may apply.

**No. D-38-011, Clerk, GS-304-4, Code 381** — This part-time position (NTE 20 Hrs/Wk) is located in the Physics Division, Research Department. The incumbent performs clerical duties, primarily in the budget and administrative areas. Job Elements: Knowledge of NIF accounting system; knowledge of NWC organizational structure; ability to deal effectively with others. Promotion potential to GS-5.

**No. D-38-012, Supervisory Research Chemist, DP-1320-3/4, Code 3853** — Incumbent serves as Head of the Energetic Materials Branch. The incumbent will lead a branch engaged in basic and applied research concerned primarily with the development, characterization and utilization of new energetic material for propellant and explosive applications. Job Relevant Criteria: Knowledge of Chemical synthesis and modern research techniques and instrumentation, of an willingness to support the Federal EEO program and policies. Ability to lead and contribute to a scientific organization; to manage and motivate personnel. Promotion potential to DP-4 if filled at DP-3, but not guaranteed.

**No. D-39-051, Computer Specialist, DS-334-1/2/3, Code 3922** — This position is located in the Missile Software Branch, Weapons Development Division of the Weapons Department. The Missile Software Branch is responsible for supporting

Department programs in the design, development, acquisition and management of software and software documentation for missiles and other weapons using embedded computers. The incumbent will provide software management support in the areas of software data management (DM), configuration management (CM) and quality assurance (QA) for various projects within the Department. The incumbent will be responsible for planning, executing and reporting all efforts related to software DM, CM and QA. The incumbent will prepare or direct the preparation of software plans, specifications, statements of work and other documentation necessary for the development and/or acquisition of software for Department programs. Incumbent will participate in reviews and audits of in-house and/or contractor developed software. **Job Relevant Criteria:** Knowledge and experience with one of the following: Software management, acquisition and development processes; software engineering practices and principles including software documentation, CM and QA; or knowledge of DOD, Navy and Center standards, instructions and directives related to software. **Ability to prepare and/or analyze plans, specifications and directives and apply them to specific development projects.** Promotion potential to DP-3, not guaranteed.

**No. D-39-047, Electronics Technician, DT-856-A/1/2, Code 3924** — This position is located in the Electronic Systems Branch, Weapons Development Division, Weapons Department. The incumbent, working with electronics engineers, will provide direct technical support in the design, fabrication, modification and troubleshooting of electronic systems. **Job Relevant Criteria:** Understanding of basic electronic concepts, analog and digital components, and test equipment/troubleshooting techniques. **Ability to develop and interpret schematics and engineering drawings.** Certification or ability to be certified as an operator under WS6536 soldering technology. Promotion potential to DT-3.

**No. 62-029, Administrative Assistant, DA-341-1, Code 6202** — This position is located in the Range Department Staff Office. The incumbent assists the Head of Staff in providing staff and management services to the Department Head and the Department. Emphasis is on the personnel advice and services; planning and budgeting; management and organization analysis; manpower and financial analysis; space and facilities management; and general administration. **Job Relevant Criteria:** Ability to assemble and organize facts for use in reports, presentations, etc.; Ability to express ideas and thoughts orally; Ability to express ideas and thoughts in writing; knowledge of administrative policies and procedures in the area of personnel, budget, plant account, and equipment management. Applicants are requested to submit with their SF-171 a supplemental statement describing how their experience relates to the above listed Job Relevant Criteria.

**No. 62-023, Electronics Technician, DT-856-A/1/2, Code 62513** — This position is located in the Airspace Surveillance Office, Computer Systems Branch, Computer Systems/Data Division, Range Department.

The incumbent assisted in the design and development of the changes to major electronic systems; assists senior technicians with maintenance, operation and interfacing of complex systems such as computers, CRT displays and associated peripherals. **Job Elements:** Ability to develop and operate digital computers and analog circuitry; ability to maintain, calibrate and troubleshoot electronic equipment; knowledge of BASIC and other higher level computer languages. Promotion potential to DT-3. Status eligibles may apply.

**No. CPO-8530, Cook, NA-7404-05, \$5.34 per hour, Temporary Part-Time Not To Exceed One Year, Code 2232** — Position located at Chief Petty Officers' Mess. Incumbent assists in the preparation of food. May substitute for, relieve, or assist other cooks during emergencies or rush periods. **KSAs:** Ability to prepare dinner menu items with minimum or no supervision from the chef; ability to cook simply hot grill and fried foods; ability to make prescribed sandwiches and salads; and ability to follow instructions as shown by supervisor. This is not a Civil Service position.

**No. ASF-85-11 (HC), Copier/Duplicating Equipment Operator, GS-350-4, Navy Publications and Printing Service, Code 8300** — Duties: Sets up, adjusts, monitors, operates, and performs preventive and minor maintenance on a high-speed off-line electronic page printing system to produce printed pages from 9-track magnetic tape. Mounts magnetic tapes onto tape drive unit. Enters commands into CPU via keyboard to initiate EPPS software and describe the format of the jobs to be run. Controls all processing and printing of job(s) run. Reviews diagnostic messages and takes appropriate corrective action. May operate other equipment e.g., copier duplicators, diazo equipment, etc. and perform simple bindery functions. **Qualifications:** Applicants must have twelve months of equipment operating experience at the next lower grade level or at an equivalent level of operating difficulty of which nine months must be specific operating experience and three months of specialized operating experience. Specialized Operating Experience is experience in the operation of microform equipment, mail processing equipment, duplicating equipment or peripheral equipment. Specific Operating Experience is experience in the operation of xerographic or electro-static copiers, telecopiers, magnetic computer tape to hardcopy equipment, high-speed copier/duplicators, diazo equipment, photostat equipment, and fluid and stencil equipment. **Elements:** Knowledge of data processing and computer language techniques; ability to follow directions, instructions and job specifications; ability to operate peripheral and support equipment comparable to the Electronic Page Printing System (EPPS). **NOTE:** Candidate must be willing to work any shift. **Physical Requirements:** Applicants must be able to occasionally lift moderately heavy (up to 50 lbs.) supplies such as boxes of paper. Applications (SF-171) and Supplemental Qualification Statement can be picked up at NPPSDBO, Building 1041. Applications and supplements will be accepted at NPPSDBO Building 1041.

ment. The incumbent assisted in the design and development of the changes to major electronic systems; assists senior technicians with maintenance, operation and interfacing of complex systems such as computers, CRT displays and associated peripherals. **Job Elements:** Ability to develop and operate digital computers and analog circuitry; ability to maintain, calibrate and troubleshoot electronic equipment; knowledge of BASIC and other higher level computer languages. Promotion potential to DT-3. Status eligibles may apply.

bases, communicate with the Systems Engineering Division's Shared Resource Management local area network, and interface with the Engineering Department's present CAD/CAM systems. Implementation may be a combination of the present system and personal computers. **Knowledge of systems analysis, test instrumentation, computer control of test and measurement equipment; HP-1000 systems and RTE-6/VM operating system desirable. Ability to operate and maintain a computer controlled test system; to maintain and archive data files; to design and write system and test software; to assess system needs, plan, acquire, and implement an engineering computing system; to work with engineers in support of testing; to communicate effectively orally and in writing. Promotion potential to DP-3. Send an updated SF-171 to Cheryl Preul, Code 36209.**

**No. 35-063R, Interdisciplinary (General/Electronics/Aerospace Engineer, Physicist, Mathematician, Computer Scientist) DP-801/855/861/1310/1520/1550-2/3, Multiple Vacancies, Code 3515** — Incumbent acts as a member of a missile system analysis team for EW systems (e.g., HARM, LCS). Using software tools to gather and display missile performance data, the incumbent evaluates missile performance. If problem occurs, incumbent determines the cause of problem and suggests solutions. These solutions are then simulated and evaluated. To apply for this position, forward an updated SF-171 to Bill Stratton, Code 3515, NWC ext. 2951.

**No. D-39-049, Interdisciplinary (General Engineer/Electronics Engineer/Computer Scientist, DP-801/855/1550-2/3, Code 3922** — This position is located in the Missile Software Branch, Weapons Development Division of the Weapons Department. The Missile Software Branch is responsible for supporting department programs in the design, development, acquisition and management of software and software documentation for missiles and other weapons using embedded computers. The incumbent will provide software management support in the areas of software data management (DM), configuration management (CM) and quality assurance (QA) for various projects within the department. The incumbent will be responsible for planning, executing and reporting all efforts related to software, DM, CM, and QA. The incumbent will prepare or direct the preparation of software plans, specifications, statements of work and other documentation necessary for the development and/or acquisition of software for department programs. Incumbent will participate in reviews and audits of in-house and/or contractor developed software. **Job Relevant Criteria:** Software management, acquisition and development processes; software engineering practices and principles including software documentation, CM and QA; knowledge of DOD, Navy and Center standards, instructions and directives, apply them to specific development projects. Promotion potential to DP-3. SF-171's should be forwarded to James McGuire, Code 3922.

**No. D-39-046, Computer Scientist, DP-1550-2/3, Code 3926** — The incumbent is responsible for providing software analysis and design for the inertial navigation and guidance functions of the Inertial Development Branch. Applications include tactical missile software and laboratory test software. In addition, software consulting support will be provided to engineering and technician staff. **Knowledge of VAX/VMS operating system is required. Knowledge of structural program development techniques is required. Knowledge of PASCAL or ADA desired but not required. Must be able to work within a minimum of supervision. Send copy of current SF-171 to Stan Rajtora, Code 3926. Promotion potential to DP-3.**

**No. 39-050, Electronics Engineer, DP-855-3, Code 3925** — This position is in the RPV Technology Branch. The incumbent will serve as the QF-4 Full Scale Aircraft Target Project Engineer and provide project engineering support to other branch technology projects in the areas of Robotics, Artificial Intelligence, Autonomous RPVs and Formation control of aerial targets. **Knowledge:** Knowledge of advanced microprocessor hardware and software system design and digital feedback control systems. **Knowledge of digital signal processing. Abilities:** plan, schedule, and coordinate efforts of a small group of individual on complex technical efforts involving prototype technology demonstrations, developmental testing, and product assurance. Communicate clearly both orally and in writing to deal effectively with all levels of management and project personnel. Send copy of current SF-171 to Jay Bornfleth, Code 3925.

**No. 35-048R, Interdisciplinary (General/Electronics Engineer/Physicist/Mathematician/Computer Scientist), DP-801/855/1310/1520/1550-1/2/3, Multiple Vacancies, Code 3512** — Incumbent designs software and/or develops mathematical models for computer simulation of electronic countermeasures, tracking radar systems, and/or aircraft platforms. Work is coordinated with that of other team members. Experience with realtime programs and VAX computers is desirable. Send an updated SF-171 to Terry Wilson, Code 3512. Previous applicants need not reapply.

**No. 35-044R, Interdisciplinary (General/Electronic/Aerospace Engineer, Physicist, Mathematician, Computer Scientist), DP-801/855/861/1310/1520/1550-2/3, Multiple Vacancies, Code 3515** — Incumbent supports development of tactical software for EW systems (e.g. HARM, LCS). Uses structured analysis techniques and tools to graphically define software requirements, design and test the software. Writes code in assembly language using VAX editors and cross assemblers. Provides recommendations for approval of tactical software changes, plans and executes validation tests in a Software Support Facility. To apply for this position, forward an updated SF-171 to Bill Stratton, Code 3515, NWC ext. 2951. Previous applicants need not reapply.

## Secretarial opportunities

This column is used to announce secretarial positions for which the duties and job relevant criteria are generally similar. Secretaries serve as the principal clerical and administrative support in the designated organization by coordinating and carrying out such activities. Secretaries perform numerous tasks which may be dissimilar. Positions at lower grades consist primarily of clerical and procedural duties and, as positions increase in grades, administrative functions become predominant. At the higher levels, secretaries apply a considerable knowledge of organization, its objectives and lines of communication. Depending on grade level, typical secretarial duties are implied by the job relevant criteria indicated below.

Unless otherwise indicated, applicants will be rated against the job relevant criteria indicated below. A supplemental form is required and may be obtained at Room 100 in the Personnel Building. **Job Relevant Criteria:** Ability to perform receptionist and telephone duties; ability to review, control, screen and distribute incoming mail; ability to review outgoing correspondence; ability to compose correspondence and/or to prepare non-technical reports; knowledge of filing systems and files management; ability to meet the administrative needs of the office; ability to train clerical personnel and organize workload of clerical staff processes; ability to plan and coordinate travel arrangements; ability to maintain and coordinate supervisor's calendar and to arrange conferences.

**No. D-39-048, Secretary (Typing), GS-318-4/5, Code 3923** — Provides secretarial support to the Head, Tomahawk Software Support Branch. Promotion potential to GS-5.

**No. 62-030, Secretary (Typing), GS-318-3/4, Code 6202** — Provides secretarial support to the Explosive Ordnance Disposal (EOD) Code 6203). Knowledge and working skill on an IBM Wordprocessor is desirable. Status eligibles may apply.



personnel development opportunity

### COMPUTER SCIENCE

**MATH 477 - NUMERICAL ANALYSIS (5 quarter units)**  
17 June-22 July, Monday and Wednesday, 1600-1800, Safety Building Classroom. By: Chuck Kenney, Ph.D., ext. 3597.

**Prerequisite:** Differential Equations, FORTRAN.  
**Scope:** Topics include numerical solutions of nonlinear equations; linear systems of equations; estimation of characteristics roots; quadrature; curve fitting; interpolation; numerical solution of ordinary differential equations; basic concepts of numerical error; error propagation.

**Text:** *An Introduction to Numerical Analysis* Atkinson, Wiley.

**CSCI 370 - SYSTEMS DESIGN THEORY (3 units)**

1 and 2 June, 22 and 23 June; Saturday and Sunday, 0800-1600; Safety Building Classroom. By: Professor Arnovick, CSUC.

**Prerequisite:** CSCI 270 (Systems Design) or consent of instructor.

**Scope:** Software project management: planning, organization, staffing, and control of a software project. Software cost factors and software cost estimation models. Legal and regulatory aspects of software engineering.

**Text:** No text.

**Note:** This is a required class for the MSCS, Software Engineering Option.

**CSCI 273: DATA BASE MANAGEMENT (3 units)**

20 and 21 July, 17 and 18 August, and 14 and 15 September; Saturday and Sunday, 0800-1600; Safety Building Classroom. By: Professor James Murphy, CSUC.

**Prerequisite:** CSCI 151 (Data and Program Structures).

**Scope:** An introduction to data base management systems. Topics include storage structures and data-definition languages and data-manipulation languages for relational, hierarchical, and network approaches to data base management.

**Text:** To be announced.

**CSCI 372: OPERATING SYSTEM THEORY (3 units)**

3 and 4 August, 24 and 25 August, and 21 and 22 September; Saturday and Sunday, 0800-1600; Safety Building Classroom. By: Professor Larry Wear, CSUC.

**Prerequisite:** CSCI 272 (Multi-User Operating Systems).

**Scope:** A review of operating system development. The course involves comparison of various types of multipurpose systems including

master/slave and parallel process systems and analysis of multiprocessor system performance and capabilities. Material for this course changes to reflect current research in the field.

**Text:** To be announced.

### MECHANICAL ENGINEERING

**ENGR 396 - SELECTED TOPICS IN THERMAL FLUID SYSTEMS (3 units)**

5 June-1 August; Wednesdays 1400-1700, and Thursdays 0830-1130, Training Center Annex. By: Professor T. W. Fox.

**Scope:** An overview of essential theories from thermodynamics, fluid mechanics, and heat transfer, required for engineering analysis of thermal-fluid systems. Topics include first and second laws of thermodynamics; fundamental equations of fluid mechanics; introduction to conduction, convection, and radiative heat transfer.

**Text:** *Introduction to Thermal Sciences*. Schmidt, Henderson, and Wolgemuth.

**CSCI 152 - OPERATING SYSTEMS PROGRAMMING (3 units)**

7-9 June, 28-30 June, 26-28 July; Friday, 0800-1200; Saturday and Sunday, 0800-1600; Safety Building Classroom. By: Professor Clement Luk, CSUC.

**Prerequisite:** CSCI 151 (Data and Program Structures).

**Scope:** Operating system concepts and techniques are addressed. The course includes study of linkage-editors, loaders, channel operations, and interrupt handlers.

**Text:** To be announced.

**CSCI 350A: LANGUAGE THEORY (3 units)**

15 and 16 June, 13 and 14 July, 10 and 11 August; Saturday and Sunday, 0800-1600; Safety Building Classroom. By: Professor Bruce Pumplun, CSUC.

**Prerequisite:** Discrete Mathematical Structures.  
**Scope:** Use of relations, functions, and graphs in data management; structured programming and flow analysis; applications of regular grammars, finite state automata, regular expressions, context-free grammars, and pushdown automata in language recognition and translation; decidability and its influence on program testing and formal verification; state transition and applicative models of computation; and fundamental results from analysis of algorithms.

**Text:** To be announced.

**Note:** This is a required course for the MSCS, Software Engineering Option.

### ENGR 260L: ELECTRICAL ENGINEERING FUNDAMENTALS LABORATORY (1 unit)

1 June-27 July, Saturdays, 1400-1700, Cerro Coso Community College. By: Professor Jagdish Prabhakar, CSUN.

**Scope:** Laboratory for ENGR 260 listed above.

### BUSINESS AND PUBLIC ADMINISTRATION

**BA 383 - INVESTMENTS (5 quarter units)**

18 June-23 July (4 July is a holiday), Tuesdays and Thursdays, 1600-2100 (1-hour dinner break), Safety Building Classroom. By: Professor Ken Shakoori, CSUB.

**Prerequisite:** BA 381 (Financial Management) or consent of instructor.

**Scope:** Topics include supply and demand for capital; principles of analysis of various types of securities, security markets, and financial institutions; and formulations of investment strategies.

**BA 677 - FUTURISM (5 quarter units)**

18 June-23 July (4 July is a holiday), Tuesdays and Thursdays, 1600-2100 (1-hour dinner break), Safety Building Classroom. By: Professor Richard Graves, CSUB.

**Scope:** An introduction and critical overview of the science and art of futurism—the orderly study of the future. The course will explore the challenge for human survival in the face of resource shortages, population growth, and environmental degradation.

**BA 340 - MARKETING (5 quarter units)**

30 July-29 August, Tuesdays and Thursdays, 1600-2100 (1-hour dinner break), Safety Building Classroom. By: Professor Dennis Guseman, CSUB.

**Scope:** Provides a study of the nature and role of marketing in advanced economics in a managerial

## Reassignment opportunities

This column is used to fill positions through reassignment only. For this reason, the Reassignment Opportunity Announcements are separate from the Promotion Opportunities column in the Rocketeer. Applications will be accepted until the date stated in the announcement. Employees whose work history has not been brought up to date are encouraged to file an SF-171 or 172. All applicants must meet minimum qualification requirements established by the Office of Personnel Management. Information concerning the recruitment and placement program and the evaluation methods used in these reassignment opportunities may be obtained from Personnel Management Advisors (Code 096 or 097). Applications should be filed with the person whose name is listed in the announcement. The Naval Weapons Center is an Equal Opportunity Employer.

**No. 36-252, Interdisciplinary Electronics/Mechanical Engineer/Computer Scientist/Physicist, Mathematician, DP-855/830/1550/1310/1520/2/3, Code 3626** — Responsible for operation and enhance-

ment of the branch's computing facilities. The present test and computing system is controlled by an HP-1000. Desired additions should result in a multi-user system to support personal computing and data

## CSUN offers classes in engineering

Two undergraduate engineering courses offered at NWC this summer by California State University, Northridge are required classes for students pursuing undergraduate degrees in electrical or computer engineering.

Engineering 260, Electrical Engineering Fundamentals, and Engineering 355, Theory of Digital Machines, are also of benefit to scientific employees at China Lake in need of an engineering foundation

for the master's program in electrical engineering.

Detailed course descriptions can be found elsewhere in this issue.

Because of the short time frame, interested students are asked to contact Kit Driscoll or Cecil Webb at NWC ext. 2648 to enroll and send a completed NAVWPNCEN form 12410/73 as soon as possible.

The classes will be offered during June and July on Center.