

## Local auction slated Jan. 22

Public Local Auction IFB 41-7193 will be held at 9:30 a.m. on Tuesday, Jan. 27, at Building 1073 (Warehouse 41), according to the Defense Reutilization and Marketing Office, China Lake.

Among the nearly 200 items to be offered will be IBM typewriters, voltmeters, scales, vacuum pumps, a band saw, 10-drawer card file cabinets, motorcycle, storage lockers, evaporative cookers, work benches, generator sets, oxygen cylinders, railroad ties and a qonset hut.

Items will be on display for inspection from 8 a.m. to 3 p.m. weekdays beginning January 16. A complete list as well as sale terms and conditions can be seen at Building 1073, Warehouse 41.

Registration will begin at 7:30 a.m. on the day of the sale. Bidders must be present and registered to bid; mailed bids cannot be accepted. Items purchased may be removed on the sale date provided full payment is made. Payment must be in cash or guaranteed instrument (money orders, cashier's check, traveler's check, etc.). Purchasers have until February 3 to pay for and remove items before storage charges will be applied.

Because the Defense Reutilization and Marketing Office is located within NWC's interior security fence line, prospective bidders must stop at the main gate and obtain a pass before coming aboard.

Further details can be obtained from Greg Berry, Code 097, in Building 1073. He can be reached on NWC ext. 2502 or 2538.

## Phone Friend stays active

Phone Friend, an after school help-line available to children in the Ridgecrest area who need someone to talk with, is still sponsored by the Community Connection for Child Care. If children need help or just someone to listen to them after school while their parents are at work, Phone Friend is a great help.

A new Phone Friend line has expanded the service to reach children throughout the rest of Kern County at (800) 882-8855. The phone lines are open 2 to 5 p.m.

Volunteers are always needed to man the lines and those who wish to volunteer are asked to contact Judy at 375-0446.

Grants from the California Department of Social Services, Office of Child Abuse Prevention, provide funds for these services.

## MCLB auction on Thursday

Those seeking furniture, tires, kitchen equipment, office equipment, shelving, lighting fixtures or vehicles might be interested in bidding on such items at local auction 41-7183 at the Marine Corps Logistics Base in Barstow. The auction will be held on Thursday, Jan. 15 at 9 a.m. at Building 16 at that base.



	Max	Min	Peak Gust	Precip
Fri.	62	24	6 knots	-
Sat.	62	24	27 knots	-
Sun.	53	43	22 knots	0.26 in.
Mon.	57	36	21 knots	-
Tues.	47	27	14 knots	0.02 in.
Wed.	53	32	9 knots	-
Thurs.	57	26	9 knots	-

All measurements are made at Armitage Airfield.

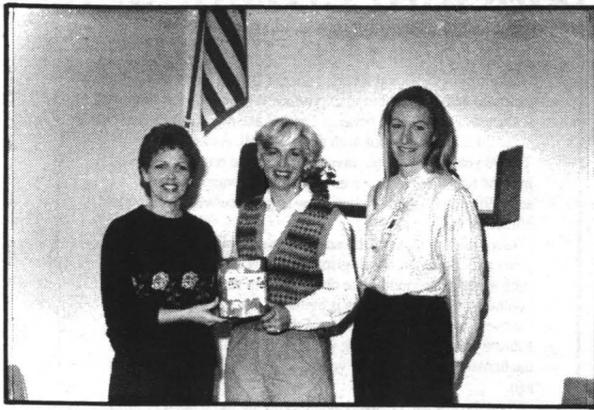
## VX-5 carollers help Navy Relief Society

Officers from VX-5, their wives and children went Christmas carolling on Dec. 17, starting from the Commissioned Officers' Mess and working their way through the housing area along Essex Circle, Lexington, Midway, Ticonderoga and Blue Ridge.

They made the rounds on a big open truck complete with piano, to benefit the Navy Relief Society. Donations from residents of the housing area who enjoyed the holiday spirit brought to them by this merry bunch amounted to \$146, all of which was donated to the Navy Relief Society to help the Navy help its own.

Mrs. Caroline Arkell and Mrs. Cindy Cerne organized the event and presented Mrs. Renee Phillips, chairman of the volunteers of the Navy Relief Society, with a check for the donation.

The VX-5 Christmas Carolers extend their thanks to the many residents who helped make the evening a success for the Navy Relief Society with their donations.



**HOLIDAY GIFT** — Mrs. Renee Phillips (center) accepts the VX-5 Christmas Carolers' donation to the Navy Relief Society from Mrs. Cindy Cerne (left) and Mrs. Caroline Arkell, representing the officers, wives and children of VX-5 who went carolling to raise \$146 for NRS last month.



Tuesday marks an innovation for the Commissioned Officers' Mess — a soup and salad bar for those who want to eat an especially healthful lunch at a very reasonable price of only \$3.25 per person.

On the salad bar will be tomato-vinagrette, sliced cucumbers, potato salad, macaroni salad, cottage cheese, cherry tomatoes, cherry peppers, banana peppers, bean sprouts, alfalfa sprouts, pepper rings, kidney beans, garbanzo beans, purple onions, cheese, diced ham, diced turkey, corn relish, giardiniera, eggs, pickled beets, olives, ambrosia, fruit cocktail, melon balls, cole slaw, cauliflower, fresh fruit, tossed salad, croutons, bacon bits, sunflower seeds and assorted dressings.

Also available will be not just one but two homemade soups each day. Any government employee or civilian contractor is welcome to lunch at the Commissioned Officers' Mess; it is not necessary to be a member or to qualify for membership to be able to take advantage of the delicious food available.

On January 15, the Commissioned Officers' Mess will have a soul dinner in honor of Martin Luther King Jr.'s birthday. Consisting of chicken gumbo, neck bones, red beans (New Orleans style), rice, blackeyed peas and ham hocks, turnip greens and salt pork, coleslaw or potato salad and cornbread, the dinner will be served from 5:30 to 8:30 p.m. for only \$8.95 per plate.

For only \$1 per person, authorized members and guests 18 years and up are welcome to disco to the music of Upstage Music tonight from 9 p.m. until 1 a.m. This Wednesday from 8 until 11:30 p.m., Ted Lemon from Sound Waves will be the local DJ.

Annual dinner of the Council on Substance Abuse Awareness will be held next Wednesday at 6:30 p.m. at the Carriage Inn in Ridgecrest. Guest speaker for the evening will be James A. Smith, manager of community relations for the Kerr McGee Chemical Corporation.

All interested members of the public are invited to attend. For further information and reservations, telephone 375-2271 by close of business Monday.

Michelson Laboratory awards will be presented at a luncheon at 11:30 a.m. Friday, Jan. 30, at the Commissioned Officers' Mess.

The award recognizes technical excellence based on outstanding performance of individual duties. The award, established in 1966, is complementary to the Center's highest local award, the L. T. E. Thompson Award.

Menu for the lunch is a choice of either chef salad or teriyaki beef with rice. Both cost \$5.

Reservations are required and can be made by telephoning either Amy Toy or Barbara Fedoriga on NWC ext. 2592 no later than 4 p.m. Tuesday, Jan. 27.

Major H.C. ("Harry") Spies, USMC, Chief Operational Test Director at VX-5, will be the speaker at the January 22 meeting of the Robbers Roost Chapter of the Association of Old Crows. The meeting will start at 5 p.m. in the Michelson Laboratory auditorium (Room 1000D).

Major Spies will begin with an overview of the mission, organization and functions of VX-5 and then will discuss recent operational test and evaluation highlights. His presentation will be classified CONFIDENTIAL.

Those with a CONFIDENTIAL clearance who wish to attend should contact either Mike Stallard or Julie Van Skike at NWC ext. 3900. NWC employees will be required to show their badges and non-NWC personnel also need to mail in an official visitor clearance request.

On Sunday at 1 p.m., personnel from the Bureau of Land Management will conduct a tour to Fossil Falls. The tour leaves from the BLM office, 112 E. Dolphin in Ridgecrest, and visitors need to provide their own transportation.

At the Fossil Falls site the group will hike to the falls and through the lava formations. Further information can be obtained by telephoning Fred Coe, visitor information specialist, at 375-7125.

## Clean-up . . .

(Continued from Page 1)  
tions provide much needed financial support or donate food for the volunteer labor.

This is the first time the Community Pride has been headquartered in the Kern Regional Park. Organizers note there is easy access to the park and lots of parking in the area.

Last year nearly 1,000 workers filled more than 1,300 trash bags and helped haul off six truck loads of tumbleweeds and several loads of junk or trash too large to fit in trash bags.

Organizers hope for a record turnout and a record level of litter elimination in this, the seventh year of community involvement in a cleaner, better looking place to live and work.

## Movies

FRIDAY, SATURDAY	JAN. 9, 10
"STAND BY ME" Starring Wil Wheaton and River Phoenix (Suspense, rated R, 89 min.)	
SUNDAY	JAN. 11
"THE CARE BEARS" (Animated, rated G, 89 min.)	
MONDAY	JAN. 12
"MY SCIENCE PROJECT" Starring John Stockwell and Fisher Stevens (Science-Fiction, rated PG, 87 min.)	
WEDNESDAY	JAN. 14
"THE FLIGHT OF THE NAVIGATOR" Starring Joey Cramer and Veronica Cartwright (Fantasy, rated PG, 90 min.)	
FRIDAY	JAN. 16
"LABYRINTH" Starring David Bowie and Jennifer Connelly (Fantasy/Adventure, rated PG, 101 min.)	
Starting Time: Evening / 7 pm	
* U.S. Government Printing Office: 1987 — No. 40037	

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TO \_\_\_\_\_

## Center launches Penguin Missile Program Office

Newest missile program office to be established at NWC is the Penguin Program Office, headed by John Prescott.

The missile was originally designed in the 1960s as a surface-to-surface antiship weapon for the Royal Norwegian Navy and is produced by the Defence Products Division of A/S Kongsberg Vapenfabrikk. The Penguin missile family has proved so effective after its fleet introduction in 1974 with the Royal Norwegian Navy that it is now in service with the navies of Sweden, Greece and Turkey. Other allied nations are considering its use.

The current program with the U.S. Navy will provide integration of the Penguin into the SH-60B helicopter's LAMPS III weapon system by the end of 1988.

Penguin is a relatively small missile, weighing approximately 850 pounds. Its modular construction consists of guidance, motor and warhead sections. The guidance section is set up as a launch-and-forget system using a cold gas canard actuator, canard fins, inertial navigation platform, altimeter, control assembly, a passive IR

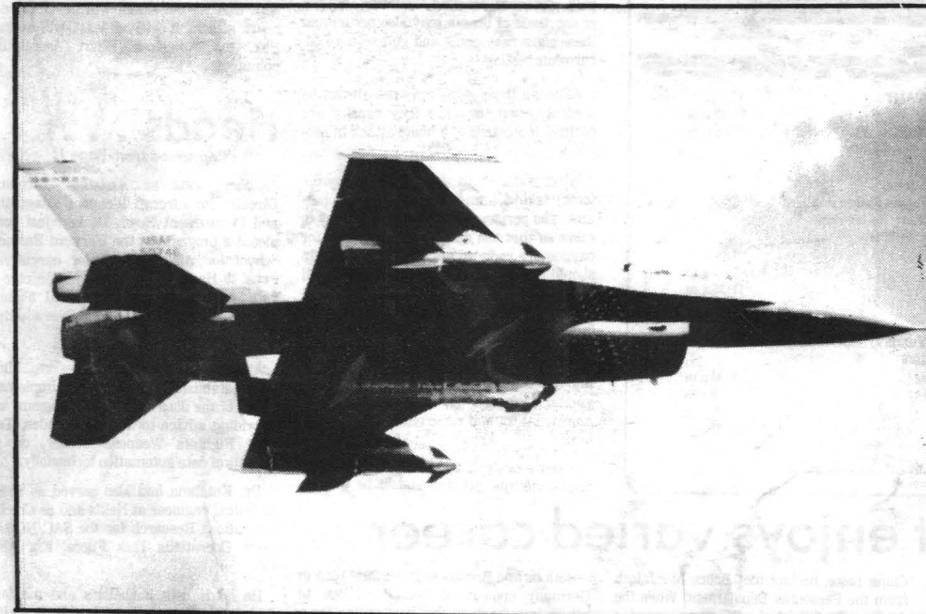
seeker for terminal guidance and power supplies.

The Penguin missile interfaces with the LAMPS III helicopter's avionics, altimeter, doppler navigation and search radar via the missile control section located with the helicopter's stub wing. The motor is a two-stage design providing boost acceleration and sustaining thrust during the launch and midcourse flight phases. The warhead is a modified semi-armor piercing Bulpup warhead.

The airborne version of the missile can be launched from a wide range of altitudes depending on the launch platform capabilities without effecting the aircraft's normal functions. Penguin is characterized as a short-to-medium range missile with capability to execute a 90-degree turn (dogleg maneuver) in its flight pattern to pursue or confuse its target. In addition, the missile is a sea-skimmer to ensure maximum effectiveness as both an offensive and defensive weapon system.

The United States Navy became interested in Penguin in 1979 for use on coastal patrol ships and the Naval Surface Weapons Center, Dahlgren, was tasked by the Naval Sea Systems Command to evaluate this application. The LAMPS III helicopter community became involved in 1984 and requested a helicopter application. Approval was granted for the helicopter use and the program transferred to the Naval Air Systems Command in 1985. NWC was tasked in October 1985 with providing support for missile design and development including AUR safety testing.

The decision was made, according to Prescott, to use the Mk 2 Mod 3 Penguin airframe, the Mk 2 Mod 5 seeker section, the Mk 3 Penguin digital guidance which required only minimum interface changes for adapting the missile to the SH-60B (Continued on Page 4)



**HIGH FLYING PENGUINS** — Two Penguin missiles ride on the wings of this Air Force aircraft prior to being tested. Penguin is a NATO weapon now being looked at by the Navy for use by helicopters.

## Homer, Kutchma swap department head posts

Capt. John Burt, NWC Commander, announced, in keeping with Senior Executive Service (SES) rotation, Dr. Edward K. Kutchma, head of the Aircraft Weapons Integration Department, and Paul Homer, head of the Electronic Warfare Department — will trade their department head assignments.

Members of the SES are required to rotate assignments every five years. Technical Director Gerry Schiefer notes this change of assignment provides broadening experience for the executives involved and enhances their expertise.

Homer, who has headed the Electronic Warfare Department since 1982, began his Civil Service career at China Lake as a junior professional in 1962. Homer came to China Lake after completing his bachelor's degree in physics from the New Mexico In-

stitute of Mining and Technology at Socorro. He also holds a master's degree in engineering from the University of California at Los Angeles, earned while working full time at NWC.

In 1967 he was selected as head of the Analysis Branch of the Weapons Analysis Division. Homer's work on programs such as the OV-10 NOG, Project TRIM (A-6 TRAM) while branch head, led to an appointment as chairman of the Joint Service Delivery Accuracy Working Group in 1968.

Named head of the Weapons Analysis Division in 1974, Homer served as NWC's System Investigations Technology Manager, the Navy's representative on an international weapons design, target vulnerability and terminal effects panel. He also chaired the Joint Service Air-to-Sur-

face Weapons Effectiveness Committee.

Moving to head the Weapons Synthesis Division in 1977, Homer directed the conversion of an analog simulation capability to a modern hybrid digital/analog missile simulation facility. In addition to three other collateral assignments, Homer was appointed to the Steering Committee of the Joint Technical Coordination Group for Munitions Effectiveness, and was the Pay and Compensation Task Team Leader when the Naval Weapons Center and the Naval Ocean System Center (NOSC) in San Diego implemented the Civilian Personnel Demonstration Project.

Selected for the Senior Executive Service and named department head and Assistant Technical Director for Development (Electronic Warfare), Homer has since played a

key role in NWC's program management responsibility of the Low Cost Seeker Program. He has also served as co-chairman of the Naval Air Systems Command's Electronic Warfare Advisory Group and as Chairman of the Professional Council of Federal Scientists and Engineers.

He notes it was China Lake's philosophy of management, encouraging the creativity of personnel, that drew him here. Giving individuals the opportunity to exercise their own skills in working on projects that have the potential to provide increased capability to the fleet is important. Management, said Homer, has allowed this to happen by directing resources to encourage and fertilize creativity.

Dr. Kutchma came to China Lake in



Paul Homer

## Volunteers plan cleaning

Tomorrow (Saturday) is the day more than 1,000 residents of Inyokern, Ridgecrest and China Lake are expected to take part in the Seventh Annual Project Community Pride Day. Volunteers will gather at the Inyokern Park, at the Kern Desert Regional Park and at schools throughout the community for an early morning start to this annual effort to make the area as immaculate as possible.

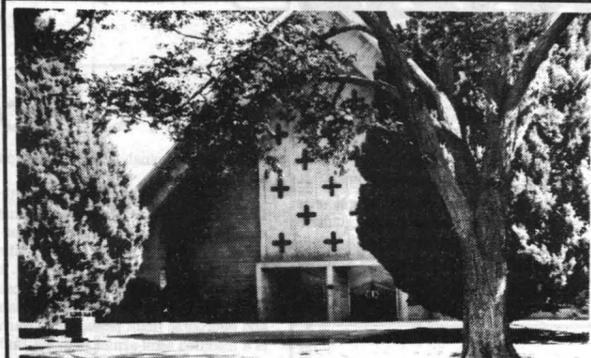
The majority of the workers will meet at the Kern Desert Park in Ridgecrest for registration beginning at 8:30 a.m. Once registered, volunteers will be fortified with free donuts, coffee and hot cocoa before being transported to their assigned work areas.

Ridgecrest Area Transit System and the Naval Weapons Center will provide bus transportation to and from areas to be cleaned. Seabees from the NWC Reserve Detachment will be bus drivers and will drive the trucks to pick up all the trash after it has been bagged by volunteer workers.

NWC, the City of Ridgecrest and Kern County are the prime sponsors of this annual cleanup push. Inyokern joined this year for the first time and many schools in the Indian Wells Valley are in their second year of participation. The Ridgecrest Chamber of Commerce along with many local merchants and community organiza-



Dr. E. K. Kutchma



## Divine Services

**PROTESTANT**  
**SUNDAY WORSHIP SERVICE** 10:30 a.m.  
**SUNDAY SCHOOL (Annexes 1, 2, 4, and the East Wing)** 9 a.m.  
**BIBLE STUDY (East Wing)**

Wednesday 11:30 a.m. Sept. through June  
 Thursday 7:00 p.m. Officer's Christian Fellowship  
 Christian Military Fellowship  
**ROMAN CATHOLIC**  
 9:00 a.m.  
**CONFESIONS (Sunday)** 8:15-8:45 a.m.  
**COMMUNION SERVICE (Monday)** 11:35 a.m.  
**DAILY MASS (Tuesday through Friday)** 11:35 a.m.  
**CONFESIONS (Friday)** 4:30-5:00 p.m.  
**RELIGIOUS EDUCATION CLASSES (Sunday) Sept. to May** 10:30 a.m.

**JEWISH**  
**WEEKLY SERVICES (Friday, East Wing)** 7:30 p.m.  
**ADULT EDUCATION (Saturday, Annex 4)** 9 a.m.  
**RELIGIOUS SCHOOL (Sunday, Annex 4)** 1 p.m.

Chaplain J. Milton Collins, Capt. CHC USN  
 Chaplain A. J. Smith, Cdr. CHC USN  
 Chaplain C. R. Beede, Lt. jg. CHC USNR  
 Hearing impaired equipment available. Nursery available.  
 Phone NWC ext. 3506 2773.

## Dan Burnett enjoys varied career

When Brenda, his wife-to-be, asked Dan Burnett to drive up to China Lake when the Long Beach Naval Shipyard for a Christmas party, she suggested that he bring along a suit.

"I thought that was to wear to the party," says Burnett, "but, instead, she had set up some interviews for me and by the time that the holiday season was over, I had been hired by Bill Arnold in the Engineering Department and was set to come to work at NWC."

Working for the Navy out in the desert was not what Burnett had in mind when he began his civil service career. After graduation from college, he went to work for the Department of Army as a logistics management intern at Texarkana, Texas to learn how to run a rework facility. From there, he was transferred to Chambersburg, Pennsylvania and spent a year and a half there before going to Long Beach State College to work on a master's degree.

"While there, I went to work for the Navy at the shipyard and met Brenda," he says. She drove up to China Lake in June of that year to interview for the intern program, decided to accept a job and told him that it would be "only for one year." By December, she decided that she really liked China Lake and wanted to stay — hence, the invitation to him. They were married eight months later.

Burnett's first job was as a budget analyst, but in the course of the move to

China Lake, he had met Bruce MacIntosh from the Personnel Department. When the Junior Professional Program needed refurbishing, MacIntosh recruited Burnett for the job of Professional Recruitment Coordinator.

"Through budgets, you get very good exposure to all programs on the Center," Burnett notes, "so I felt that I could do a good job of helping introduce Junior Professionals to China Lake. It was a very demanding job," he continues, "especially because I felt a lot of responsibility for the kids."

He left that job to become a Personnel Management Advisor in 1979 and was working in that capacity when he and Brenda decided to go to Germany after she was offered a job working for DOD dependent schools there.

"I went as a dependent myself," he says. "I didn't get a job until we were actually over there." The job he got at that time was as head of recruitment and placement at Karlsruhe.

From there, they moved to Wiesbaden, where Burnett was acting head of recruiting and placement. "I learned a lot about German trades and trade laws," he says. He adds that he learned a lot about Germans and Germany as well, "Especially that they work very hard during their work time — and play equally hard thereafter. We were told that we were workaholics if we spent any time on the job in the evening."

## Recognize heart attack

According to the American Heart Association, many lives could be saved if those who are experiencing a heart attack recognize what is happening and seek immediate medical help.

Signs of a heart attack vary, but the usual warnings of a heart attack, says the AHA, include: uncomfortable pressure, fullness, squeezing or pain in the center of the chest lasting for more than two minutes; this pain may spread to shoulders, neck, back, jaw or arms; severe pain, dizziness, fainting, sweating, nausea or shortness of breath may also occur; and these signs may come and go and may occur while resting.

Although these signs may not always be present, when they are they usually are positive indicators of a heart attack in progress.

When someone experiences these symptoms, taking immediate action is important. The person should sit down and try to relax so that the demands of the body for oxygen are reduced and then medical help should be sought from the nearest medical facility. Minutes count, so the quickest method of getting the person to the medical facility should be used.

With prompt, proper care, in most cases the heart begins to heal. Recovery time varies, depending on the extent of heart muscle injury and occurrence of complications.

Under a doctor's supervision, most heart attack victims can and should be able to

return to work after recovering from a heart attack.

The Heart Association points out preventing a heart attack is better than having to treat one. Controlling risk factors is good preventive medicine.

High blood pressure, a diet high in cholesterol and in saturated fats and cigarette smoking are risk factors that can be controlled. Daily stress, obesity and lack of regular exercise also can create problems for a heart.

Although living a healthy life will not ensure that an individual will never have a heart attack, it will at least will reduce risk, the American Heart Association points out.

## Heads . . .

(Continued from Page 1)

January, 1982 as Assistant Technical Director for Aircraft Weapons Integration and Department Head. He had just completed a program at the Harvard Business School for Air Force senior executives. Prior to Harvard, he had been director at data automation of the Tactical Fighter Weapons Center, Nellis AFB, Nevada during the preceding four years.

At Nellis his primary responsibilities were establishment, design and implementation of the data automation program and providing advice to the Commander, Tactical Fighters Weapons Center, on all aspects of data automation technology.

Dr. Kutchma had also served as senior technical engineer at Nellis and as Chief of Operations Research for the SAC/NORAD Joint Operations Task Force, Ent AFB, Colo.

He holds both bachelor's and master's degrees from Lehigh University, Bethlehem, Pennsylvania, and a doctorate from the University of Colorado at Boulder.

The new head of the Electronic Warfare Department was a Federal Employee of the Year in 1976 while a senior technical engineer at Nellis AFB and holds a Meritorious Civilian Service Medal. Dr. Kutchma's other experience includes teaching economics, operations research and statistics at the university level.

**NWC HOTLINE**  
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 Call: NWC ext. 3636 (24 hrs.)  
 or call the Inspector General at:  
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**JOB VARIETY** — Serving as a Personnel Management Advisor, his current assignment, is only one of the jobs that Dan Burnett has held on the Naval Weapons Center and elsewhere since going to work for the Federal government in Texarkana, Texas. — Photo by PH2 Rick Moore

## Ancient erosional forces created Fossil Falls

Centuries of erosional forces from the Owens River and volcanic activity combined to produce the rugged, and unique, feature of Fossil Falls, north of China Lake near Little Lake.

Fossil Falls is a 40-foot-high dry waterfall. As recently as 20,000 years ago, molten lava from volcanic eruptions poured into the ancient Owens River channel. The water sculpted, scoured and polished the lava flow to produce what is a tourist attraction today.

Traces of man's use of the area began roughly 10,000 or more years ago. Some archaeologists think now extinct mammals such as the mammoth, were once found in the area and were hunted by early man. There is evidence that man camped along the prehistoric lakes and rivers of the Mojave Desert, water sources that vanished, along with the mammals, and much of the human population, in a very arid period about 6,000 years ago.

When the climate changed again, bringing the relatively mild conditions we still enjoy today, man came back to this part of the Mojave on a permanent basis. Ancient man returned to the Mojave region with a new cultural pattern, one stressing use of wild desert plants rather than hunting and fishing in or around the now vanished water sources.

Researchers say that this pattern, altered only slightly by the introduction of pottery and the bow and arrow, was still being practiced by the Little Lake Shoshone Indians when European explorers first ventured into the Mojave Desert.

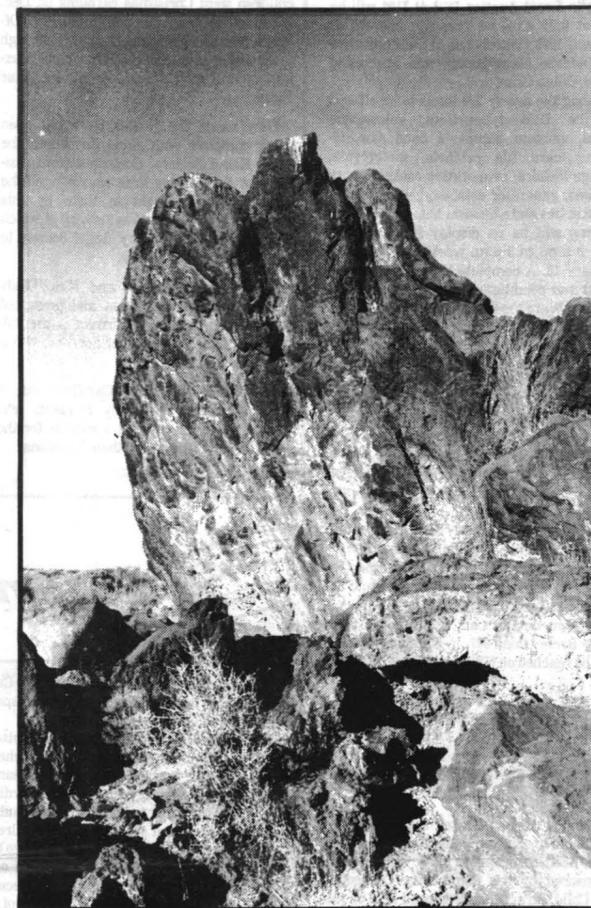
Fossil Falls remains as a mute testimonial to the great rivers and lakes that once existed in the now arid west.

Another nearby reminder of geologic changes in the west is the red cinder cone to the north. The cone is the result of the violent ejection of hot gases and molten material from a volcanic vent in the earth's crust. To the east is a dome-shaped hill with a long, black scar on its side. This scar is really an immense seam of obsidian, volcanic glass. This material was used in making stone tools such as knives, scrapers and arrowheads. The large amounts of obsidian flakes in the Fossil Falls area is the waste from such stone tool manufacturing.

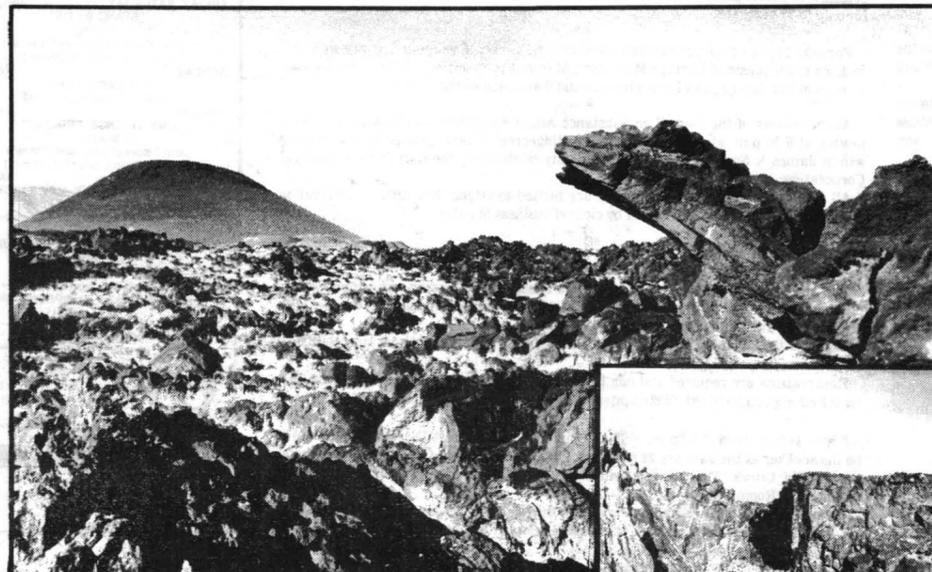
Winter, spring and fall are the best times to visit Fossil Falls. It's an easy trip from China Lake. Take Highway 395 to six miles north of Little Lake and turn east on the Cinder Mine Road.

Modern knowledge of the Indians who once camped around Fossil Falls is seen in the artifacts, rock art and features of the area. Visitors are urged to leave Fossil Falls as they found it.

The petroglyphs, arrowheads and other artifacts visitors might find are part of the cultural heritage of this nation and should be allowed to rest, undisturbed, in their natural setting.



**RUGGED ROCKS** — Visitors to the Fossil Falls area near Little Lake find unusual rock formations, the results of lava flows that have been carved by wind and water over many centuries.



**ROCK VIEW** — The red cinder cone at the left of the photos is one of the dominant landmarks around Fossil Falls.



Photos by PH2 Rick Moore

**NWC Rocketeer**

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## Two Scorpions join select company of athletes

Two Scorpion Soccer Club athletes have been named to the California Youth Soccer Association-South (CYSA-S) State Team, according to Karl Kauffman, coach of the under-19 Scorpions.

The two, both members of the under-19 team, were recognized as being among the top 40 players in their respective age groups for southern California.

Chris Johnson, a midfielder, was selected to the under-16 1/2 team. Also honored was Jason Cherry, a goalkeeper, named to the under-17 1/2 squad.

Kauffman noted Johnson and Cherry

have now cleared two of four hurdles on the way to selection for the U.S. National and Olympic team pools. This latest honor followed their being among six Scorpions chosen for the District 10 Select Team last fall.

The two Scorpion stars will attend a week-long camp this spring. Sigi Schmidt of UCLA will instruct the under 17 1/2 stars while Andy Kuenzi will instruct the younger group.

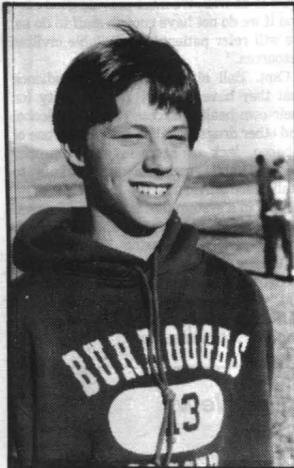
Following the camp, coaches of the

Western regional team will select top players for another week of instruction and evaluation. For the 17 1/2 players, the top athletes from the regional camp will be considered for a national camp at the U.S. Olympic Training Center in Colorado this summer.

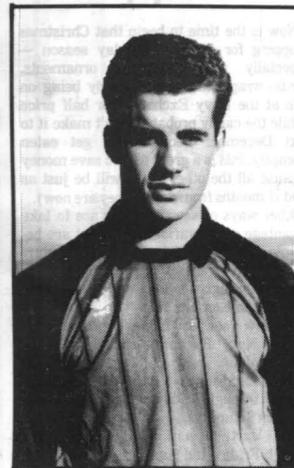
Johnson, a sophomore, and Cherry, a senior, are currently helping lead the Burroughs High School team. The Burros sport a 9-2-2 record. They have home games this month set for 3 p.m. for Jan. 13, Jan. 23 and Jan. 30.



## Sports



Chris Johnson



Jason Cherry

## Racquetball tourney set Jan. 23-25

Recreational Services Department's Sports Branch is sponsoring the 1987 Singles Racquetball Tournament at the NWC Gym Jan. 23-25.

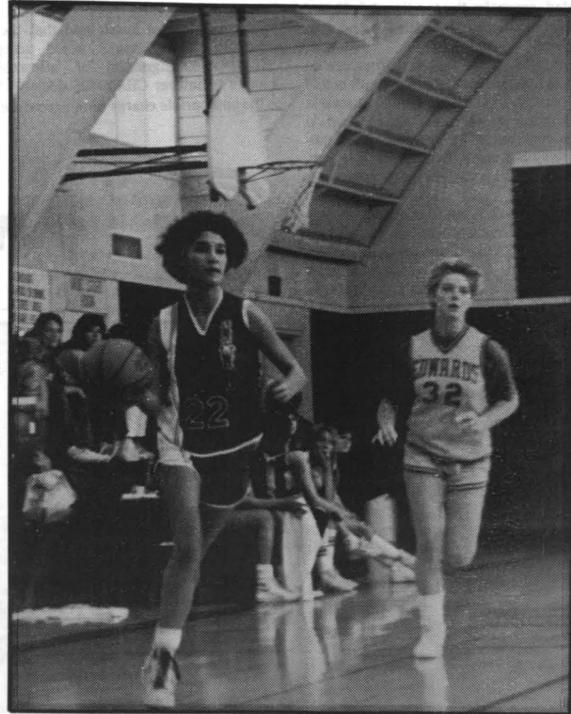
This tourney is open to all interested personnel. Awards will be given in Open A, Open B and women's divisions. The top two in each division will receive awards if at least four persons enter the division competition.

There is a Jan. 22 registration deadline for the 1987 Singles Tournament. Registration fees are \$5 for active duty military personnel and \$7.50 for civilians.

To register or get more information call the Sports Branch at NWC ext. 2571.

## Cagers return to action

Varsity basketball teams swing back into action later this month at the Naval Weapons Center. The once-beaten women's varsity squad will be at George AFB for a Mojave Desert Inter-Service League (MDISL) clash on Saturday, Jan. 24. The next day they will be at home, hosting Nellis AFB in a 1 p.m. game at the Center Gym.



**FAST BREAK** — Kim Sherbring is out in front as the Lady Roadrunners have their fast break offense in gear during a game early this season.



**WOMEN'S TEAM** — Members of the Naval Weapons Center Varsity Women's Basketball team posed for a team photo prior to one of their games. The team includes (from left) back row: Barbie Luke, Janet Ponde,

Teresa Hess, Rhonda Rudd, Kim Sherbring and Coach Richard Staples. Front row: Joan Nash, Cecelia Scanlon, Cathy Rotert and Kandl Simmons.



## The Skipper Sez...

### COMMENT

Skipper, it is Saturday, 11:51 a.m. I live on base. The fire truck just came down the street with sirens and horn honking. We were all standing out front, and Santa Claus was on it with a bunch of kids. We really appreciate it and think it was in the Christmas spirit. Thank you.

### QUESTION

Thank you, Captain. I appreciate your having this number to call. I'm an employee out here at the airfield. When I came to work this morning, I was able to come in to work through the front, but now when I tried to go home at lunch, I came back a very circuitous route. When they finally got to work on the trench at the road to the airfield -- I thought that they would send the traffic heading to Ridgecrest on the old road out where the telephone lines stretched. Instead, they got us routed several miles out of the way. It appears to add about 10 miles to the trip to and from work. I sure wish I could know why they aren't using the old road while they have the curve torn up.

### ANSWER

(Because of the space situation in the paper, only one of the many letters written about this situation could be printed. However, the answer is for all the people who asked about why the entire road going to the airport was closed during construction and why the old Sandquist Road was not used as the detour.) For safety as well as economic reasons, it was necessary to close Sandquist Road rather than attempting to work half of the road at a time with heavy construction equipment. Old Sandquist Road was not used as a detour because of potential security and safety problems; specifically, this is a narrow roadway with no shoulders in some areas; it has significant bicycle usage; it crosses a runway overrun and has inadequate facilities to handle traffic volume where it enters the airfield.

### QUESTION

Civilian employee -- I'm very concerned about the safety of the guards on the French Street gate. When it gets dark, you cannot see them, even with a flashlight. I would suggest that an outside light be put in their guard shack in order to illuminate the area where they stand to avoid any possible injury to them. Thank you.

### ANSWER

The guard shack you have referred to does have an interior light which can be turned on to help illuminate the immediate area. This guard shack/post was scheduled to be moved north to the intersection of South Knox Road and Hayward Avenue last month. This was done to better monitor walk-ins from the high school as well as drivers entering from French Street. The new area is well-illuminated by street lights, which should correct the problem you have described.

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. John Burt. 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.



**LENGTHY SERVICE** — George Scriven looks on as Capt. John Burt reads a description of all the jobs Scriven has held in his 40 years of government service. — Photo by PH2 Rick Moore

## Scriven gets 40-yr. pin

Proudly receiving his 40-year federal service pin from Capt. John Burt recently was George B. Scriven, a mechanical engineering technician in the Range Engineering Branch of the Range Department.

Scriven's lengthy service began in April 1943, when he joined the Navy after graduating from Van Nuys High School in his native Los Angeles. After being separated from the Navy in 1945, he joined the Air Force in July 1949 and remained on active duty with the Air Force until December 1952.

In January 1953 he began his civilian career as a machinist at China Lake in the Limited Explosives Department Process

Division of what was then the Naval Ordnance Test Station and is now NWC. By 1957 he became a test range equipment repairman and in September of 1965, he became a mechanical engineering technician.

During his career on board, Scriven has served in several departments, from the old Test Department to the Engineering Department to the Test and Evaluation Department, which then became the Range Department in 1976.

Scriven has received several merit increases for his superior accomplishments on the job, as well as having submitted a beneficial suggestion that was accepted and approved.

## Navy develops training for financial managers

As a result of its Civilian Financial Management Career Program (CFMCP), the Navy has developed a core of financial managers with broad experience in several facets of resource management to meet staffing needs.

The two-year program was established in 1972 by the Comptroller of the Navy. Personnel in CFMCP are trained at Navy establishments throughout the country. Currently two budget analysts are in training at NWC; they will become part of the Center's staff on successfully completing their training if they so choose.

The program ensures that each person enrolled gets on-the-job training, cross training in resource management jobs, rotational assignments to field and higher

echelon organizations and academic training. Professional fields include those for budget analysts, accountants and auditors.

Budget analysts take part in formulating budgets, presenting these with supporting materials in budget reviews and putting budgets into effect. Applicants for such programs need to have logical minds, good writing and oral skills and research ability joined by skills required to use the results of such research.

Accountants maintain continued fiscal control of projects, either individually or as team members. They set up and maintain accounting systems and procedures and ensure that these conform to accounting standards.

Budget analyst applicants, if they are not college graduates (in any discipline), should have relevant experience. They can apply through the Merit Promotion Process.

Several NWC graduates of the program are currently taking leading management roles at commensurate grade levels (DP-3 and DP-4).

Requests for information can be directed to the NAVCOMPT Trainee Program Coordinator, Elaine Wunderlich, Code 08.

Those wishing to apply should send a completed standard Form 171 and a copy of their college transcripts to Comptroller of the Navy, Office of Career Management, Code NCF-3, Crystal Mall 3, Room 119,

Washington, D.C. 20376-5001.

Applicants for auditor and accountant positions must also write to the Office of Personnel Management, Staffing Service Center Examining Office, P.O. Box 9800, Macon, GA 31298-2699, to ask for Accountant/Auditor application forms. When these are submitted, applicants can be placed on appropriate registers.

Donald Vacca (NAVCOMPT Trainee Program) staffer for the Civilian Financial Management Career Program will be on board NWC on Thursday Jan. 15. All persons interested in learning more about this program should contact Rose Short, NWC ext. 2460 or 2557, for scheduling information.

## Dr. Mitchell tells Hepatitis A cause, symptoms

(Questions about Type A hepatitis have been raised since cases have been reported in the local area. Lt. (Dr.) C.S. Mitchell from the Branch Medical Clinic has graciously prepared the following information.)

Type A Hepatitis is caused by a virus known simply as Hepatitis A virus. Man and, rarely, captive chimpanzees are the only known reservoirs of the virus. Hepatitis A infection occurs worldwide, is sporadic and epidemic and outbreaks commonly occur in institutions, day-care centers, low-cost housing projects, rural

areas and military forces (especially during wars). The infection is most common among school-aged children and young adults.

Mode of transmission is person-to-person by the fecal-oral route. Outbreaks have commonly been related to contaminated water and food including milk, sliced meats, salads and raw or undercooked mollusks. Incubation period from time of contact to the virus until symptoms show is 15 to 50 days, with an average of 28 to 30 days. Persons with the virus are most infectious during the latter half of the in-

fection period through the first week of jaundice.

Passive immunization with immune globulin (IG) is recommended for all household and sexual contacts if the persons are within two weeks of exposure. IG will not be given if two or more weeks have elapsed since exposure.

IG is usually not offered to patrons of eating establishments where a foodhandler has become infected. Other foodhandlers at the establishment, however, are given the IG. IG is occasionally given to patrons of eating establishments if the infected

foodhandler was involved in the preparation of foods which were not heated and if deficiencies in personal hygiene are noted and if the IG can be given within two weeks after the last exposure.

Symptoms of Hepatitis A include jaundice (yellowing of skin and whites of eyes), anorexia, nausea, diarrhea, fatigue, aversion to smoking and, occasionally, pain in the upper right area of the abdomen. The symptoms last one to three weeks.

Less than 1 percent of patients with Hepatitis A go on to acute fulminant hepatitis. Chronic liver disease does not result from Hepatitis A infection.

## NOTS/PAGES from the Past

Since so much interest was expressed by Rocketeer readers in the series run last year honoring the diamond jubilee of Naval aviation, coverage of Center history is going to be expanded this year beyond items related solely to naval aviation.

Among subject areas to be covered will be the history of various facilities on the Center (and why they were named what

they are named), street names and their history, personnel of note such as Commanders, Technical Officers and Technical Directors, and projects of historic note and of particular interest.

Those who have a suggestion about a particular person, facility, project or event to be covered are invited to call the Rocketeer, Code 0033, NWC ext. 3354.

## Laboratory named for Navy officer-scientist

Although Albert Abraham Michelson died in 1931, more than a dozen years before the establishment of what was then the Naval Ordnance Test Station, the largest facility aboard China Lake was most appropriately named after this Navy officer, scientist and first American winner of the Nobel Prize in science.

The name had been suggested by LCDr. (later Captain) James A. Duncan, a former student of Dr. Michelson's, who was teaching physics at the Naval Academy in 1943 and sought a job more appropriate to the war effort for a physicist than teaching.

LCdr. Duncan met Capt. Sherman Burroughs, who had just been appointed Commander of the Naval Ordnance Test Station that was being built on the desert. Capt. Burroughs suggested LCDr. Duncan could help him build a laboratory and got LCDr. Duncan a new assignment as "Laboratory Officer, Naval Ordnance Test Station, Inyokern, California."

LCdr. Duncan commented later that he had felt for years that it was a shame that the Navy didn't have any buildings named for its distinguished former officer and believed that what was to be the most ad-



vanced laboratory facility in the world at the time of its construction was an appropriate bearer of that name.

Michelson graduated from the Naval Academy in 1873 and served in the Navy 12 years before becoming, in his own words, "a sailor who degenerated into a college professor because it thrilled him to match wits with inanimate objects."

His Nobel prize was awarded in 1907 for his "precision optical instruments and the spectroscopic and metrological investigations conducted therewith."

He again donned the Navy uniform dur-

ing World War I to serve as scientific consultant to the Bureau of Ordnance to work in fields as diverse as developing range finders and binoculars for night observation.

At the dedication of the Michelson Laboratory on May 8, 1948, Michelson's three daughters; Dr. Robert Milliken, a long-time associate of Michelson's and a Nobel prize winner; Dr. Charles Lauritsen; and Navy and government officials joined in honoring the distinguished scientist and naval officer.

## Tech Library hours change

Because of staffing shortages, the Technical Library is cutting back its hours of operation to 8:30 a.m. to 4:30 p.m. each weekday.

These new hours, which began January 5, will allow the library staff to accomplish routine chores during the first hour of the

work day. The staff hopes that better service to patrons can be provided when some of this routine work is done before the library opens.

The Technical Library will remain open during the 11:30 a.m. to 12:30 p.m. lunch hour.

## Social Security office hours

Located at 337 West Ridgcrest Boulevard, the local Department of Health and Human Service Social Security Administration is open from 9 a.m. until

12 noon on Mondays through Fridays for people needing information about their Social Security benefits.



## China Lake Police Reports

Celebration of New Year's eve on board the Naval Weapons Center was both safe and sane. Not only were no arrests made for driving under the influence of alcohol on that night, but even the first weekend of the new year passed without any. China Lake police hope that this good start for 1987 bodes well for the future.

Two related cases occurred during the holiday season. A female suspect gave a gun to a subject who said he wanted to "kill a cop and commit suicide;" furnishing or offering to furnish a firearm to another for the purpose of committing a felony is against the law. Police were called when the man to whom the gun had been given then pointed the small semi-automatic weapon at her and threatened to kill her. Ultimately, this male suspect was transported to Kern General Hospital. The case is being taken to the District Attorney's office for review.

A person or persons removed a hand-held blower from a mount on the side of a street-cleaning vehicle in the compound adjacent to Building 98002.

Two military men got into a physical altercation in a residence on Nimitz. Police were called to stop the fight and keep the peace.

A victim removed his jacket and hung it on the bushes on the south side of Schweitzer Circle while he was working in that area. A petty thief removed the jacket.

After a driver exited his vehicle in the Pan American training center north parking lot leaving his engine running, the vehicle slipped out of gear and backed into another vehicle in the lot.

The driver of a vehicle southbound on Herbert Street lost control of the vehicle and crashed. Tri-County ambulance responded and briefly examined and released the injured driver.

Unknown person threw a projectile at the sliding glass door of a house on Sykes Circle, causing a star-shaped crack in the glass.

When a traffic stop was made, the driver was found not only to be driving with a suspended license but also to have an outstanding traffic warrant from the Antelope Valley jurisdiction. The driver was arrested and transported to jail in Ridgecrest.

Someone stole a license plate from a vehicle in the lemon lot.

## Hospital CO opens dialogue on medical woes

"We're in a transition on medical care and it's painful," Capt. M.F. Hall, Commanding Officer, Naval Hospital, Long Beach, told several hundred military retirees, their dependents and dependents of active duty personnel gathered December 18 for a meeting on medical services available at the Branch Medical Clinic.

She said that the problem existing today is that the Navy does not have enough medical resources in-house to meet the demands placed on it for quality medical care. Priorities for placement of medical personnel rank operating forces first, overseas stations second, followed by isolated areas in the continental United States, then teaching hospitals — and then all others.

Capt. Hall added that resources are so short at Long Beach that not even all active duty personnel can be seen, that her staff is 14 doctors short and that this shortage is apt to continue as the build-up of the 600-ship Navy continues. Shortages will be particularly felt in some specialty areas, she stated.

"We have both a moral and statutory duty to provide medical care for active duty personnel first," Capt. Hall stated. "Civilian care is available in this community. I would suggest that you provide realistically for your own care by not only

depending on CHAMPUS but also take out supplemental insurance to cover the portion of medical bills that CHAMPUS does not."

Present to answer questions from the audience was a panel consisting of Cdr. Dean Hermann, Officer in Charge of the Branch Medical Clinic; David Mechtenberg, Administrator of the Ridgecrest Community Hospital; Gary Staab, Administrator of Drummond Medical Group; and Warren Toussaint, Senior CHAMPUS Field Representative for Blue Cross and Blue Shield of South Carolina. Also present was Susan Soffa, a constituent representative from Congressman Bill Thomas' office.

Mechtenberg and Staab said that their respective establishments would accept CHAMPUS assignment of allowable charges (whatever CHAMPUS declares to be the appropriate charge for a procedure),

which means that the patient's cost-share is 20 percent of allowable charges for dependents of active duty personnel and 25 percent of allowable charges for retirees and their dependents after a deductible of \$50 per person or \$100 per family is met each fiscal year.

Both also added that they were available to talk with anyone who was having a problem in meeting these costs.

Toussaint advised everyone who deals with CHAMPUS to be sure to follow directions in filling out the materials. "You've got a superb Health Benefits Advisor here to help you," he added. "And when you need to get in touch with CHAMPUS, write, rather than phone, and keep a copy of the letter."

Cdr. Hermann reminded those present that the only real change locally has been that appointments have been required since Oct. 1 and that if "You don't see a crowd

sitting in the lobby, it's because, thanks to appointments, we've cut waiting time to a minimum."

Staffing in the Branch Medical Clinic is down, he said, but he hopes that it will improve in the future. "It's space available for care, but that's nothing new," he noted. "That's pretty much the way it's been since the Civil War."

He continued, "We have been emphasizing for years that everyone who uses CHAMPUS should have supplemental insurance. What is most important to everyone, however, is that what we do, we want to do well. We must provide good care and if we do not have enough staff to do so, we will refer patients to available civilian resources."

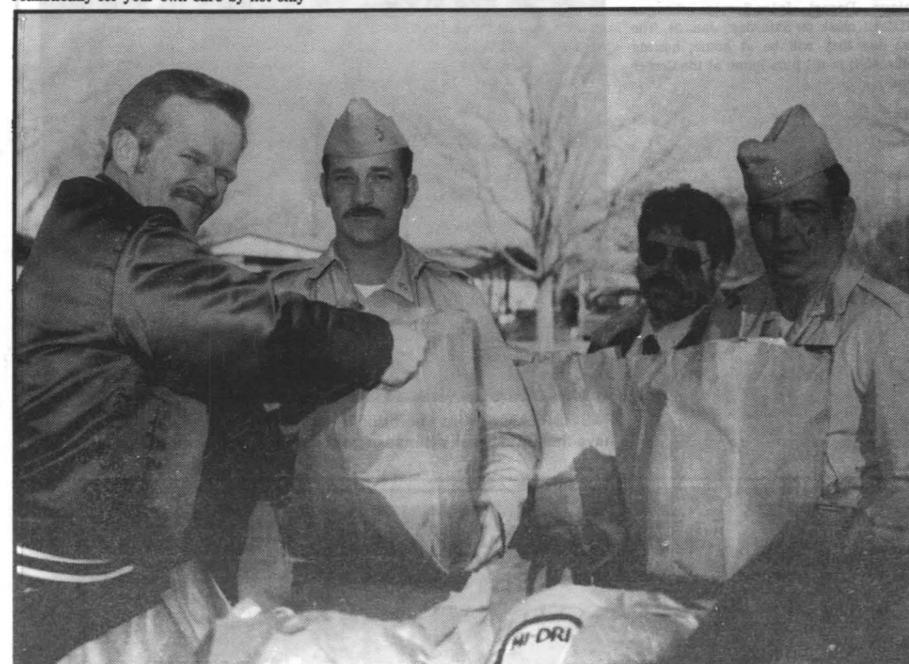
Capt. Hall also reminded the audience that they have primary responsibility for their own health. Excessive use of alcohol and other drugs (legal or otherwise), use of tobacco, lack of exercise and improper dietary habits generate extra visits to health care providers.

"And in a system that is already stressed by too many patients," Capt. Hall said, "we're simply increasing the stress by continuing such habits."

Cdr. Hermann concluded by reaffirming that "We'll do all we can with our present staff, but we need our patient's understanding and continued support."



## Military News



**HOLIDAY SPIRIT** — Members of the Chief Petty Officers Association (CPOA) joined in the holiday spirit of giving and helping by providing holiday food

baskets. Seen as they made deliveries are (from left) AQCS Bill Witherspoon, POC Dave Huntsmen, Leroy Doig III and ACCS (AW) Joe Tavare.

## Navy places priority on motorcycle safety

Motorcycle safety is of major importance to the Navy. In the first nine months of 1986, motorcycle fatalities and injuries for Navy personnel in the Pacific Theatre were 14 dead and 257 injured. Of these, at least three fatalities and 100 injuries were alcohol-related.

Driving a motorcycle requires special skills, which can be acquired through specialized safety courses provided by both Navy and civilian agencies. However,

receiving a motorcycle license and attending a motorcycle safety course do not ensure that a person will enjoy an accident-free career on a motorcycle.

The age-old excuse of "But it wasn't my fault" does not take away the pain: someone is in a hospital as a result of an accident nor does it bring back the friend that died in the accident.

Not all accidents are preventable by the motorcyclist. Many times the fault lies with

the other driver. This is a problem that cannot be solved but merely reduced by the use of safety clothing and precautions.

Most life-saving of all safety clothing is a helmet; regulations require that all Navy personnel riding a motorcycle, whether on a military base or not.

Motorcycles are an inexpensive, fun, yet potentially dangerous form of transportation.

## EAW classes commence again next month

Classes will resume on Feb. 3 for sailors at the Naval Weapons Center interested in earning their Enlisted Aviation Warfare Specialist wings according to AVCM John P. Bozony.

Classes are for those students continuing to work toward this rating as well as newly interested sailors. The focus on the program, however, will be to completing the course of study for those sailors who have

been taking classes on a regular basis.

Because of the necessity of scheduling lectures for classes, the deadline to enroll in the February sessions is Jan. 26.

## NEX News

### New hours for shoppers

Now is the time to begin that Christmas shopping for the next holiday season — especially with Christmas ornaments, cards, wrap, ribbons and candy being on sale at the Navy Exchange for half price (while the candy probably won't make it to next December because it'll get eaten promptly, this is a great way to save money because all the other items will be just as good 11 months from now as they are now).

Other ways of saving money are to take advantage of the various sales that are being planned during this month. These start with the pre-inventory sale scheduled from Jan. 14 through 18, followed by a Super Saturday Sale on Jan. 17.

The new year also brings new hours for various Navy Exchange facilities. These are:

NEX main store: 10 a.m. to 5:30 p.m. Monday through Friday and from 9 a.m. to 5 p.m. on Saturdays.

Mini Mart: 10 a.m. to 7 p.m. Monday through Friday and 9 a.m. to 7 p.m. Saturday.

Service Department hours include: Gas Island: 7 a.m. to 5 p.m. Monday through Friday and 8:30 a.m. to 5 p.m. Saturday.

Service bays: 7 a.m. to 4 p.m. Monday through Friday.

Parts/Accessories: 9 a.m. to 5 p.m. Monday through Friday and 8:30 a.m. to 3 p.m. Saturday.

Personalized services: 10 a.m. to 5:30 p.m. Monday through Friday and 9 a.m. to 3:30 p.m. Saturday.

Barber Shop: 7:30 a.m. to 4 p.m. Monday through Thursday and 8:30 a.m. to 2 p.m. Friday.

Cashier Cage: 10 a.m. to 5 p.m. Monday through Friday and 9 a.m. to 2 p.m. Saturday.

Snack bar hours now are: Plaza: 6 a.m. to 3 p.m. Monday through Friday and 8 a.m. to 3 p.m. Saturday.

Aerodrome: 6:30 a.m. to 5 p.m. Monday through Thursday and 6:30 a.m. to 2 p.m. Friday.

Michelson Laboratory: 7 a.m. to 3 p.m. Monday through Friday.

Highland: 6:30 a.m. to 2 p.m. Monday through Friday.

## 19 SAFETY STAND DOWN 87

January 12th & 13th

Safety Standdown "87" will be held Monday and Tuesday, with all departments observing a 4-hour standdown from operations to review safety and health policies, regulations, general procedures and practices and to attend selected events.

A schedule of events is listed below. The schedule will also be posted at the Center theater and at the Michelson Laboratory auditorium (Room 1000D).

The Fuse and Sensors Department static presentation will be located in Bldg. No. 11530 in the Salt Wells Administration area. Those who wish to attend this event but do not have area access (a "C" on their passes) should tell the guard at the CLPL gate where they wish to go. The guard will call for clearance and provide directions. All those attending are reminded that lighters or matches are not permitted beyond the China Lake Propulsion Laboratory access gate.

<p><b>MONDAY, JANUARY 12</b></p> <p>MICHELSON LAB, CONFERENCE ROOM 1000-D</p> <p>0800 - 0850 Back Injury Prevention 0900 - 0950 Disaster Preparedness 1000 - 1050 Hot Liquid Burns 1400 - 1450 Disaster Preparedness</p> <p>MICHELSON LAB, CONFERENCE ROOM B/C</p> <p>1300 - 1350 Laser Safety</p> <p>SALT WELLS ADMIN., BLDG. 11530</p> <p>1300 - 1345 Fuze and Sensors Display</p> <p>CENTER THEATRE</p> <p>0800 - 0850 Hot Liquid Burns 0900 - 0950 General Work Area Safety 1000 - 1050 Back Injury Prevention 1400 - 1450 General Work Area Safety 1500 - 1550 Hot Liquid Burns</p> <p>CLPL CAFETERIA</p> <p>1400 - 1450 Back Injury Prevention 1500 - 1550 Hot Liquid Burns</p>	<p><b>TUESDAY, JANUARY 13</b></p> <p>Hot Liquid Burns General Work Area Safety Back Injury Prevention General Work Area Safety</p> <p>Laser Safety</p> <p>Fuze and Sensors Display</p> <p>Back Injury Prevention Disaster Preparedness Hot Liquid Burns Disaster Preparedness</p>
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## Personnel Development Opportunities

### MANAGERIAL ACCOUNTING FOR THE TECHNICAL MANAGER CURRICULUM (TMC)

February 2-6; Monday-Friday; 0800-1400; Training Center. By Gale Poppen, Code 083.

Prerequisite: A final examination is required for TMC students.

Intended Audience: TAMC program participants.

Scope: A survey of managerial accounting for the NWC technical manager. Emphasis will be on the application of accounting information to planning, control, and decision making. Topics include job order costing, overhead costing, responsibility accounting, and use of information in decision making. Case studies tailored to NWC managerial accounting will be discussed. Students should bring synopses of problems or techniques that they encounter in the financial aspects of their work for use as case studies.

Deadline: January 20.

### SOFTWARE QUALITY ASSURANCE

February 3 and 4; Tuesday and Wednesday; 0800-1600; Training Center. By Jim Dorrell, Code 392.

Intended Audience: Managers, engineers, and specialists who need to implement or work with software quality assurance (SQA).

Scope: This class will acquaint you with background and methods needed to accomplish SQA. The emphasis is on tactical digital computer programs; however, the concepts apply to automatic data processing applications as well. Topics include the SQA program, requirements, techniques, and methodologies; the software life cycle and SQA involvement; DOD/Navy standards, specifications, and directives; software documentation and configuration management and the SQA involvement; software testing and the SQA role; and the role of SQA in reviews and audits. The application of MIL-S-52779, MIL-Q-9858, quality elements of MIL-STD-1679 and -2167, and the soon to be released MIL-STD-2168 will be discussed.

Deadline: January 20.

### ACQUISITION STREAMLINING TRAINING WORKSHOP

February 5 and 6; Thursday and Friday; 0800-1600; Training Center. By NAVAIR, Washington, D.C.

Intended Audience: People who work for or with NAVAIR on a project.

Background: Acquisition streamlining is a multifaceted method of reducing acquisition time and cost without adversely affecting weapon system quality or supportability. This initiative has a high priority with the Secretary of the Navy. Streamlining encompasses reduction in the number of management reviews, tailoring of specifications and data items, increased use of nondevelopment items, emphasis on performance specifications, and the early involvement of industry in helping to find ways to reduce cost and time of acquisitions.

As part of the streamlining initiative, various OSD, SECNAV, and NAVAIR directives, instructions, and other documents have been promulgated that discuss the philosophy, goals, and broad methods involved in acquisition streamlining.

Scope: This 2-day workshop will accommodate about 25 students and will include an overview of acquisition streamlining and provide additional focus on practical application of the principles of acquisition streamlining through formal lectures and hands-on case studies.

Deadline: January 20.

### SYSTEMS ANALYSIS

February 9; Monday; 0800-1600; Training Center. By Dr. Frank Reed.

Scope: This 1-day seminar is designed to make the program manager aware of the classical tools of systems analysis. Without going into mathematical detail, the modeling efforts suitable for different types of system analysis problems will be discussed. Methods by which the program manager and systems analyst together can arrive at a modeling effort whose assumptions and limitations are understood and whose results guide program development will be discussed. In addition to classical systems analysis, the effect of software development on system design will be covered. The importance of supporting or complementary systems on system design will also be discussed.

Deadline: January 24.

### CORRECTION TO UNDERGRADUATE PROGRAM IN ELECTRICAL ENGINEERING CLASS CS-15

This class will be held on Tuesday and Thursday from 0800-0900 and 0900-1020 at Cerro Coso Community College.

### INTRO TO FORTRAN PROGRAMMING

February 2-13; Monday-Friday; 0800-1130; Training Center. By John Francis.

Prerequisite: Some knowledge of how to use an editor on a computer.

Intended Audience: Beginning FORTRAN programmers.

Scope: Topics include creating source codes, compiling, linking, variable types, READ/WRITE statements, DO loops, IF-THEN-ELSE, GOTO (for PASCAL users), subroutines, functions, common blocks, troubleshooting, and documentation. The class will be as interactive as possible, using the computer of your choice: IBM, VAX, UNIVAC, CP/M, Macintosh, Atari 520ST, Apple II, etc. Examples will be handed out in your disk format if you specify in advance.

Note: About 1 to 2 hours per day of outside reading and programming assignments will be required.

Deadline: January 20.

### MODERN RADAR SIGNAL PROCESSING: SPECTRUM ESTIMATION, ARRAY PROCESSING, AND DETECTION.

March 30-April 3; Monday-Friday; 0800-1600; Training Center. By Professor C. L. Nikias, Ph.D., Northeastern University.

Prerequisite: Understanding of introductory linear system theory and probability theory. No prior experience with digital signal processing will be necessary.

Intended Audience: Engineers, scientists, programmers, and technical and systems managers who need understanding of the currently available modern radar signal processing techniques.

Scope: You will learn the fundamentals of modern radar signal processing: spectral analysis, array processing (RF antennas), and detection. The course will emphasize target detection, estimation, classification and tracking via spectrum estimation, array processing, time delay estimation, and multidimensional signal processing.

Deadline: January 21.

### BETTER BRIEFINGS WORKSHOP

February 11 and 12; Wednesday, 0800-1600; and Thursday, 0800-1700; Training Center. By Dr. Miriam Cartwright.

Scope: Addresses the three goals that most people have when they give presentations: to communicate information effectively, to command the respect of the audience, and to avoid appearing nervous. Techniques will be offered that will give confidence in all three areas. The final activity is video taping, playing back, and discussing short presentations by the students. Topics include presentation goals, organization, level of detail, visual aids, making good viewgraphs, delivery, nervousness, and handling questions.

Deadline: January 28.

### FINANCIAL MANAGEMENT FOR ADMINISTRATIVE OFFICERS/ ASSISTANTS

February 12; Thursday; 0800-1600; Training Center. By Gale Poppen.

Scope: Provides financial personnel with information on the NWC financial system. Topics include basic information about NIF, overhead, job order numbering, customer order numbering, facilities, appropriations, and how the Center is funded.

Deadline: January 29.

### INTRODUCTION TO PROGRAMMING (KAREL)

February 9-13; Monday-Friday; 0800-1130; Training Center. By Daryl Vaughn, Code 094.

Prerequisite: Computer Fundamentals or equivalent experience.

Intended Audience: Nonprogrammers who want to learn about programming concepts. Scope: An introductory course in concepts of computer programming using the KAREL robot simulator program. Includes hands-on class exercises designing programs using the PASCAL text editor. Topics include computer tasks and situations, computer program forms, errors and debugging, defining procedure blocks, stepwise refinement, writing understandable programs, conditional programming, repeating programs, arithmetic processes, and introduction to PASCAL programming.

Note: One or two hours per day of lab work and reading outside of class may be required.

Deadline: January 26.

### COMPUTER FUNDAMENTALS (MAKING IT COUNT)

February 18-March 20; Monday, Wednesday, and Friday; 0800-1000; Training Center. By Daryl Vaughn.

Scope: Consists of the Boeing Computer Services videotapes lecture series and workbook "Making It Count." The course will give you a fundamental understanding of computer concepts, history, vocabulary, programming languages, hardware, procurement, program design, and career opportunities in computing. An instructor will be available to answer questions and conduct a hands-on lab.

Note: Computer labs are scheduled for March 2, 4, and 6 at 1000-2300, or 1300-1500. You should plan to attend a morning or an afternoon lab in addition to class that week.

Deadline: February 4.

### FILES IMPROVEMENT AND RECORDS DISPOSITION

February 24-26; Tuesday-Thursday; 0800-1130; Training Center. By Pam Rivera.

Scope: This class is designed to help record keepers understand and apply basic rules related to filing. Topics covered are standard filing procedures; eliminating needless filing; cross-referencing; indexing; and using filing aids such as color codes, labels, file guides and recommended file folders. Use of the Navy Standard Subject Identification Code and the use of microfilming, identification of record material, disposal of records, and use of the Federal Records Centers for storage will be discussed.

Deadline: February 10.

### TECHNIQUES OF EFFECTIVE LISTENING FOR SUPPORT PERSONNEL

February 18; Wednesday; 0800-1600; Training Center. By Bert Barer.

Scope: Provides administrative and clerical support personnel with the skills and principles of effective listening. Examines how we retain and understand information by our ability to listen "actively." Topics include organizing "straight" data and drawing inference from that data; managing confrontation; giving reflective feedback; clarifying the message, blocking out competing messages; handling phone conversations by actively listening to voice inflection.

Deadline: February 4.

To enroll in this course, submit training request (Form NAVWPNCEN 12410/73) via department channels to Code 094.

## Program being offered for JPs

The purpose of the JP Career Guidance and Counseling Program is to provide new professionals with information about themselves that will help them plan their careers at NWC. The JP career guidance and counseling program includes 8 hours of tests and a feedback session with a professional counselor. Some questions to be answered during this program are:

- Do you now have essentially technical or managerial (or both) capabilities? What are your prospects for future development?
- How can you use your creativity? Should you emphasize research or applications?
- What are your major values and priorities for personal and career development?
- What are your major strengths and weaknesses in dealing with others?
- With what size group would you work best?
- What additional training (technical, academic, or other) do you need for further development?

The next testing will be held January 27 and 28, 7:30-11:30 a.m., at the Commissioned Officers' Mess. Counseling sessions will be held at a later date. If you want to be included in the January testing, contact Cyndi Jones, NWC ext. 2648.

NOTE: Test results and any related information are kept confidential.



# Personnel News & Notes

No. 78 / January 9, 1987

Naval Weapons Center, China Lake, California 93555 6001

## PROMOTIONAL OPPORTUNITIES

Applications for positions listed in this column will be accepted from appointable Department of Navy employees within the area of consideration and from eligible employees of attached activities who are permanently assigned to NWC unless otherwise specified in the ad. Appointable means career or career conditional employees, temporary employees with reinstatement or VRA eligibility and employees serving under Veterans Readjustment Appointments (VRAs). 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 then addresses the specific Knowledge/Skill/Abilities (KSAs) cited in the ad. Write the position title/series/level and announcement number on 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 Blandy. 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. 06-01, Financial Manager, DP-345-3, Code 062

- This position is the financial manager on the T&E Directorate Staff. Incumbent coordinates the financial aspects of the NWC Major Range and Test Facility Base (MRTFB), represents the Directorate on the Facilities Planning Board Screening Committee and acts as backup to the T&E Administrator on a full range of administrative support functions for the Directorate Office. Provides counsel on all financial matters to the T&E Administrator, T&E Director, and T&E Department Heads and Cost Center Managers. Incumbent is the principal point of contact on MRTFB financial matters to NAVAIR and OPNAV sponsors. **Job Relevant Criteria:** Knowledge of and experience in budget and financial policies and procedures; ability to analyze diverse and complex processes; ability to communicate effectively, both verbally and in writing; ability to deal effectively with all levels of personnel; and knowledge of Center-wide administrative processes. Promotion potential to DP-3.

### No. 09-001, Clerk Typist, GS-322-3/4, or Personnel Clerk, GS-203-4/5, Code 096/097

- Incumbent performs the following duties for a major department(s): processes all actions affecting appointments, pay setting, separations, conversions of appointment, etc.; performs competitive and noncompetitive qualification ratings; performs ranking and may conduct ranking/selection panels; and drafts vacancy announcements for recruitment. At the higher levels, incumbent advises and recommends to supervisors and managers recruitment options for certain occupations (e.g. clerical); participates in various phases of crediting plan development which may include, but is not limited to job analysis and establishing KSAPS. **Job Relevant Criteria:** Knowledge of personnel policies and procedures related to staffing; ability to plan, organize and accomplish work independently; ability to perform a variety of clerical / technical functions; ability to research, comprehend and apply complex regulatory information.

### No. 26-001, Clerk Typist, GS-322-3/4, Code 26303

- Position is located in the Design Production Control Branch. Incumbent provides typing, filing, and receptionist service for the department. **Job Relevant Criteria:** Knowledge of general clerical and office procedures; ability to work independently; qualified typist.

### No. 26-002, Clerk Typist, GS-322-3/4, Code 26022

- Position is located in the Computer Information Office (CISO). The incumbent will provide data entry and word processing support to all elements of the department. **Job Relevant Criteria:** Knowledge of word processing to perform data entry; knowledge of grammar, spelling, punctuation, capitalization, format design for analytical and financial data; ability as qualified typist.

### No. 26-003, Housing Clerk,

Promotion potential to GS-203-7. Status Eligibles may apply.

### No. 14-012, Communications Specialist, DS-393-2/3, Code 1423

- The incumbent oversees and directs telephone system operations and maintenance tasks. In addition, the incumbent provides assistance in providing telecommunications surveys and studies, reviews communication service requests for telephone services, compiles reports for reviews, reviews construction projects and telephone equipment projects. **Job Relevant Criteria:** Knowledge of a broad range of voice and data telecommunications services; ability to recognize technical problems and to analyze potential solutions; ability to establish or interpret communications policies, planning objectives, and operating and performance standards; ability to read and interpret engineering plans and specifications; ability to communicate effectively with all levels of personnel, both orally and in writing. Promotion potential to DS-3. Previous applicants need not reapply.

### No. 26-001, Clerk Typist, GS-322-3/4, Code 26303

- Position is located in the Design Production Control Branch. Incumbent provides typing, filing, and receptionist service for the department. **Job Relevant Criteria:** Knowledge of general clerical and office procedures; ability to work independently; qualified typist.

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### No. 26-003, Housing Clerk,

GS-303-3/4/5, Code 2652 - Duties include assisting in all areas of base housing administration such as gathering data for status reports, schedule housing inspections, advise tenants on rental rates. **Job Relevant Criteria:** Ability to maintain records, status sheets, reports; ability to exercise tact and courtesy. Potential to Housing Management Assistant, DA-1173-1, however not guaranteed. Status eligibles may apply.

### No. 26-004, Fuel Distribution System Work, WG-5413-6, Code 26422

- Supplemental required. Performs and is responsible for all operations of the liquid fuel storage facilities and the propane gas distribution systems. **Job Relevant Criteria:** Ability to do the work of the position without more than normal supervision; knowledge of equipment assembly, installation, repair, etc.; operation of pumps, compressors and accessory equipment; technical practices, use of measuring instruments; ability to interpret instructions, specifications, etc.; dexterity and safety.

### No. 31-002, Computer Specialist, DS-334-2/3, Code 3194, (Multiple Vacancies) - The F/A-18 Project Branch of the Aircraft Weapons Integration Department has opportunities for personnel interested in providing direct technical support for the software verification and validation activities performed by the F/A-18 Project Branch. Duties will consist of documentation review/correlation, algorithm analysis, code verification and testing. **Job Relevant Criteria:** Knowledge of computer programming; knowledge of computer analysis and software, test and evaluation; ability to work with computer hardware including micro computers and large scale systems; ability to communicate effectively, both orally and in writing. Promotion potential to DS-3 if filled at the DS-2 level.

**No. 31-003, Computer Specialist, DS-334-2/3, Code 3144** - The Weapons Integration Branch in the System Integration and Evaluation Division of the Aircraft Weapons Integration Department has an opening for a software specialist to work with a team of civil servants and contractors in machine language software development and maintenance for the Stores Management System (SMS). **Job Relevant Criteria:** Knowledge of machine language programming on the INTEL family processors (8080, 8086); knowledge of structured software development associated with aircraft weapons integration; ability to work effectively as a team member; ability to work with project deadlines; ability to communicate, both orally and in writing; and ability to interface with all levels of personnel. Promotion potential to DS-3.

### No. 31-003, Computer Specialist, DS-334-2/3, Code 3144

- The Weapons Integration Branch in the System Integration and Evaluation Division of the Aircraft Weapons Integration Department has an opening for a software specialist to work with a team of civil servants and contractors in machine language software development and maintenance for the Stores Management System (SMS). **Job Relevant Criteria:** Knowledge of machine language programming on the INTEL family processors (8080, 8086); knowledge of structured software development associated with aircraft weapons integration; ability to work effectively as a team member; ability to work with project deadlines; ability to communicate, both orally and in writing; and ability to interface with all levels of personnel. Promotion potential to DS-3.

### No. 32-237, Administrative Officer, DP-341-3, Code 3202

- This position is the Head of Staff for the Ordnance Systems Department and is located in the CLPL Headquarters area. The incumbent provides and coordinates the full range of administrative support functions for a department of over 300 personnel geographically dispersed over some 45 square miles. This includes the areas of budget, finance, security, personnel, space, resource and organizational analyses, and forming and implementing administrative policy. Provides administrative advice and assistance to the department head, associate

department head, and division/office heads and administrators. **Job Relevant Criteria:** Knowledge of budget, financial, personnel, space and security management policies and procedures; ability to analyze diverse and complex processes; ability to communicate effectively, both verbally and in writing; ability to deal effectively with all levels of personnel; knowledge of Center-wide administrative processes; and ability to supervise. Previous applicants need not apply.

### No. 35-070, Clerk-Typist, GS-322-3/4, Code 3527

- Incumbent provides typing and general clerical support to the Branch Office as well as general support to the Division. **Job Relevant Criteria:** Knowledge of format and clerical procedures; ability to work independently; ability to deal with people at all levels; ability to ensure correct spelling, punctuation and basic grammar in written materials; knowledge of Xerox Star is desirable but not required. Promotion potential to GS-4. Previous applicants need not reapply.

### No. 35-073, Administrative Assistant, DA-341-1, Code 3502

- Position is located in the Staff Office of the Electronics Warfare Department. Incumbent will provide general support to the Head of Staff and will provide assistance to various other administrative functionaries in the department as the need requires. **Job Relevant Criteria:** knowledge of administrative functions including budget procedures, supply/procurement procedures, facilities planning, and Plant Account procedures; knowledge of department staff operations and management goals; ability to work independently and to deal effectively with other people; ability to operate PCs. Promotion potential to DA-2. Previous applicants will be considered and need not reapply.

### No. 36-001, Interdisciplinary Supervisory (Computer Scientist/Electronics Engineer/General Engineer/Mathematician/Physicist), DP - 1550/855/801/1520/1310 - 3, Code 36224

- This position is head of the Software Support Section, Systems Electronics Branch, Systems Engineering Division, Engineering Department. This section is responsible for supporting and participating in the transition of the Sidewinder AIM-9R software design from Code 39 to Code 36. In addition, the incumbent will be responsible for establishing and controlling the System Software Support Facility for AIM-9R production support. **Job Relevant Criteria:** Knowledge of good programming and documentation practices; ability to work closely with hardware and software; ability to plan and schedule work and work as a key team member; ability to communicate orally; ability to communicate in writing. Willingness to support EEO programs and goals. Promotion potential to DP-3.

### No. 36-002, Engineering Technician, DT-802-1/2, Code 3657

- This position is located in the Computer Aided Engineering Service Center, Documentation Services Section. The branch prepares technical documentation and provides design support services, using Computer Aided Engineering Equipment, to NWC programs and projects. The incumbent will provide

existing facilities; design of custom system components necessary to meet facility test requirements; direct engineering support necessary to keep existing electronic systems in operation; design, setup, and operation of data acquisition systems necessary to meet special or unusual test requirements; the design and oversight of system software/hardware interfaces necessary for new and updated computer or microprocessor controlled systems. Promotion potential to DP-3. Send current SF-171 to Ron Morey, NWC ext. 7252, Code 6213.

**No. 62-001, Interdisciplinary (General, Electronics, Mechanical, Aerospace Engineer, Physicist, Mathematician, Computer Scientist), DP-801/855/830/861/1310/1520/1550-3, Code 62C2** - This position is that of Project Engineer in the Ground and Track Projects Office of the Range Department. The incumbent provides overall test project management of assigned projects including coordination, documentation, and fiscal management.

The incumbent translates project test requirements into range resource requirements and generates the required documentation including test plans. The incumbent serves as the primary contact between sponsors and range personnel. Incumbent must be able to communicate effectively with all levels of Center management and to work effectively with people. To apply, send an updated SF-171 to George Ostermann, Code 62C2, NWC ext. 5808.

**No. 62-126, Mechanical Engineer, DP-830-2/3, Code 62113** - This position is located in the Ballistics Test Branch of the Range Department. The incumbent will work in the Engineering Support Section which is responsible for the design and documentation of hardware and facilities for static testing of rocket propulsion systems and other ordnance items. Also responsible for supervision of construction, fabrication and assembly/checkout of hardware prior to test. Send copy of current SF-171 to Ron Morey, Code 621, NWC ext. 7252.

**EE 567: RADAR SYSTEMS**

January 26-May 20; Mondays and Wednesdays; 1600-1730; Training Center. By John Johnson, Comarco.  
Prerequisite: Some probability and random processes or consent of instructor.  
Text: "Introduction To Radar Systems," Skolnik, McGraw-Hill, 2nd edition, 1980.

Reference: "Introduction To Airborne Radar," Stimson, Hughes Aircraft.

**EE 563A: ANTENNA ENGINEERING**

January 26-May 20; Mondays and Wednesdays; 1130-1300; Training Center. By Bob Dinger, Ph.D., NWC ext. 1414.

Text: "Antenna Theory And Design," Stutzman and Thiel, Wiley.  
Reference: "Antenna Theory and Design," Elliot, Prentice Hall.

**MATH 477: DIFFERENTIAL EQUATIONS**

January 16-March 20; Fridays; 1530-2030 (1-hr. dinner break); Training Center. By Professor El-Ansary.

Text: "A First Course in Differential Equations With Applications," Dennis G. Zill.

**UNDERGRADUATE PROGRAM IN ELECTRICAL ENGINEERING**

The following required courses for the undergraduate electrical engineering program are being offered this semester (quarter).

**Cerro Coso**

Chem 1A: M: 5-7:15 p.m.; W: 5-7:15 p.m. (Lab); W: 8-8:50 p.m. (Recitation)  
Chem 1B: MWF: 11-11:50 a.m.; W: 2-4:50 p.m. (Lab); W: 1-1:50 p.m. (Recitation)

CS 15: T TH: 8-8:50 a.m./9-10:20 a.m.; MW: 7:30-8:30 p.m./8:30-10 p.m.  
Engr 25: T TH: 6:40-8 p.m.; T: 3:30-6:20 p.m. (Lab)

Math 6B: MTWTH: 11:30 a.m.-12:20 p.m.; MTWTH: 12:30-13:20 p.m.  
Phys 1A: T TH: 5-6:20 p.m.; TH: 7-9:50 p.m. (Lab); T: 6:40-8:30 p.m. (Recitation)

Cal-State Bakersfield  
Math 477A: Differential Equations: F: 3:30-8:30 p.m. (1-hr. dinner break)

Cal-State University Northridge  
ME 370: Thermodynamics: see description given above.

Cal-State Bakersfield  
BA 374: BUSINESS AND SOCIETY

January 13-March 17; Tuesdays; 1600-2100 (1-hr. dinner break); Training Center. By Professor Graves, CSB.

NOTE: This is a required course for the bachelor's degree in Business Administration.

ADM 620: FINANCIAL DECISION MAKING IN ORGANIZATIONS

January 13-March 17; Tuesdays; 1600-2100 (1-hr. dinner break); Training Center. By Professor Evans, CSB.

NOTE: This is a required course for the MS degree in Administration and satisfies the MPA core requirement of PPA 511: PUBLIC BUDGETING.

ECON 540: THE ECONOMICS OF THE PUBLIC SECTOR

January 14-March 18; Wednesdays; 1600-2100 (1-hr. dinner break); Training Center. By Professor Falero, CSB.

SOC 405: SOCIOLOGY AND TECHNOLOGY

January 12-March 16; Mondays; 1600-2100 (1-hr. dinner break); Training Center. By Professor Nyberg.

Note: This course satisfies General Education Goal XIII.

Cal-State Chico  
CSCI 397C-1: ROBOTICS

January 10-11, February 21-22, March 28-29; Saturdays and Sundays; 0800-1600; Training Center. By Professor Harold Luxenberg, CSUC.

Prerequisite: Senior standing.

Text: "Industrial Robotics: Computer Interfacing and Control," Wesley E. Snyder, Prentice Hall, 1985.

CSCI 320A: DIGITAL AND ANALOG TRANSFORM THEORY

January 27-May 22; Tuesdays and Thursdays; 1400-1515 (via satellite); Training Center. By Professor H. R. Luxenberg, CSUC.

Prerequisite: One upper division course in mathematics or consent of instructor.

Text: "Signals and Systems," Oppenheim, A. V. and Willsky, A. S., Prentice Hall Signal Processing Series, 1983.

CSCI 280: DIGITAL LOGIC DESIGN THEORY

January 27-May 22; Tuesdays and Thursdays; 1100-1215 (via satellite); Training Center. By Professor Ralph Hilzer, CSUC.

Prerequisite: CSCI 171: Computer Architecture, or the equivalent experience which has provided an introductory knowledge of logic gates, Karnough mapping, and assembly language programming. Texts: "Digital Logic and Computer Design," Mano, Prentice Hall, 1979. "The TTL Data Book From Texas Instruments."

CSCI 152: OPERATING SYSTEMS PROGRAMMING

January 27-May 22; Tuesdays and Thursdays; 0800-0915 (via satellite); Training Center. By Professor Paul Luker, CSUC.

Prerequisite: CSCI 151 (Data and Program Structures) or equivalent.

Text: "Operating Systems Concepts," Peterson and Silberschatz, Addison, 1985.

Note: This is a core course for the bachelor's degree in computer science and a foundation requirement for the master's degree program in computer science.

CSCI 397C-2: EXPERT SYSTEMS APPLICATIONS

April 4-5, April 25-26, May 30-31; Saturdays and Sundays; 0800-1600; Training Center. By Professor Ralph C. Huntsinger, CSUC.

Prerequisite: CSCI 151 (Data and Program Structures) or equivalent.

Text: "Building Expert Systems," Hayes-Roth, Waterman, and Lenat, Addison-Wesley, 1984.

MATH 477: DIFFERENTIAL EQUATIONS

January 16-March 20; Fridays; 1530-2030 (1-hr. dinner break); Training Center. By Professor El-Ansary.

Text: "A First Course in Differential Equations With Applications," Dennis G. Zill, Wadsworth.

SOC 405: SOCIOLOGY AND TECHNOLOGY

January 12-March 16; Mondays, 1600-2100 (1-hr. dinner break) Training Center. By Professor Nyberg.

Note: This course satisfies an upper division general education course requirement for CSUC bachelor's degree program.

**GENERAL COMMENTS**

1. Textbooks are available at bookstores locally.  
2. Job offered courses other than those listed above or those offered under contract with the above schools must be approved on an off-Center Training Request (DD Form 155) before registration if NWC is expected to pay for the training. For more information, contact Cecil Webb, NWC ext. 2648.

support to new and ongoing development and production programs by inputting provided information into Applicon or Computervision CAE equipment. Job Relevant Criteria: Knowledge of engineering documentation preparation and maintenance techniques; knowledge of basic drafting principles; ability to draft from engineering designs. Promotion potential to DT-3.

No. 38-006, Clerk-Typist, GS-

322-2/3/4, Code 38102 - This position is located in the Physics Division of the Research Department. The incumbent will assist the Administrative Officer, as well as support other Division clerical staff as needed. Incumbent will learn to operate a Rainbow 100. Job Relevant Criteria: Knowledge of general office procedures; ability to type accurately from rough drafts; ability to work well with others. Promotion potential to GS-4.

language programming on the INTEL family processors (8080, 8086); knowledge of avionic and weapons systems operations. Applicant must have the ability to communicate, both orally and in writing, to work effectively as a team member, to work with project deadlines, to work within or outside the government. To apply, send updated SF-171 to D.M. Le Blanc, Code 3144, NWC ext. 5415.

with contractor and program sponsor as well as various diverse organizations, both on and off center. Uses knowledge of test and evaluation of guided missiles and aircraft systems and instrumentation. To apply for this position, forward an updated SF-171 to Dave Janiec, Code 3506B, NWC ext. 2951.

No. 39-001, Electronics Engineer, DP-855-2/3, Code 3954 - This position is located in the RF Systems Branch, RF Division, Weapons Department. The branch is engaged in radar altimeter design and advanced electronic counter-countermeasure (ECCM) signal processing techniques for existing and future air target seekers. The incumbent will participate in the design, analysis and testing of analog and digital systems related to RF guidance. Knowledge of electronic engineering fundamentals, specifically as they apply to digital and analog design is required. A background in or desire to learn Fortran or Pascal, microwave and radar design is desired. Submit SF-171 to Carl Lindsey, Code 3954, NWC ext. 2155.

No. 39-002, Interdisciplinary (General Engineer/Electronics Engineer/Computer Scientist/Mathematician/Physicist), DP-801, 855, 1550, 1520, 1310 - 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 seeking an individual to assist in the design, development and testing of the flight software for operational use in the Sidewinder-9M PIP missile. The 9M PIP missile incorporates multiple microprocessors in support of a state-of-the-art imaging seeker. Initially, the incumbent would be responsible for assisting in the completion of the missile's prototype flight software design and development. The incumbent will subsequently participate in the design, development, integration and flight test analysis of the final operational flight software. This position involves interfacing with the designers to support software integration. The work environment is highly team oriented. Knowledge of embedded computer software for tactical weapons; ability to plan, schedule and coordinate technical work as part of a major project; some experience in coding 68000 preferred; ability to communicate well both orally and in writing; experience in formalized real-time software engineering. Submit SF-171 to J. Mcguire, Code 3922, NWC ext. 1289.

No. 61-021, Mechanical Engineer, DP-830-3, Code 6133 - This position is Project Engineer for the QF-86F Drone Program and Aircraft Modification for the Aircraft Department. The key activities involve repair, rebuild and modify aircraft components to meet the Navy requirements per their maintenance procedures. Also design and approve all structure modification to aircraft assigned to NWC Aircraft Department. Develop test procedures and maintenance instructions for modified components to be used on the Navy Drone Program. Send copy of current SF-171 to Max Lawson, Code 6133, NWC ext. 5096.

No. 62-133, Electronics Engineer DP-855-2/3, Code 6213 - This position is in the Instrumentation Branch. Primary duties are to provide system and component design in direct support of ground test facilities operated by the Ordnance Test and Evaluation Division. Duties include: electronic system design of data acquisition and control systems for new test facilities and modifications of

**SECRETARIAL OPPORTUNITIES**

This column is used to announce secretary 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 the organization, its objectives and lines of communication. Depending on grade level, typical secretary duties are implied by the job relevant criteria indicated below.

Applicants will be rated against 4 or more of the following job relevant criteria: (1) ability to perform receptionist and telephone duties; (2) ability to review, track, screen and distribute incoming mail; (3) ability to review outgoing correspondence; (4) ability to compose correspondence and/or prepare non-technical reports; (5) knowledge of filing systems and files management (6) ability to meet the administrative needs of the office; (7) ability to train clerical personnel and organize workload of clerical staff processes; (8) ability to plan and coordinate travel arrangements; (9) ability to maintain and coordinate supervisor's calendar and to arrange conferences.

Unless otherwise indicated, applicants for Branch Secretary will be rated on elements 1/2/3/5/8; Division Secretary applicants will be rated on elements 1/2/3/4/7/8/9; Program Office Secretary applicants will be rated on elements 4/7/8/9. A SUPPLEMENTAL FORM IS REQUIRED AND MAY BE OBTAINED IN ROOM 100 OF THE PERSONNEL BUILDING.

No. 24-001, Secretary (Typing), GS-318-4/5, Code 24 - Department Secretary for Safety and Security Department. Position provides secretarial and administrative support for the Code 24 Department Office. Promotion potential to GS-6.

head secretary. Provides secretarial and administrative support to the department head. Applicants must submit current annual performance evaluation in addition to required supplemental. Promotion potential to GS-8, but not guaranteed. Status eligibles may apply.

No. 26-087, Secretary (Typing), GS-318-4/5, Code 2610 - Incumbent provides secretarial support to maintenance control division.

No. 39-057, Secretary (Typing), GS-318-4/5, Code 3911 - Provides secretarial support to the RF Missile Systems Branch. Promotion potential to GS-5.

No. 31-001, Secretary (Typing), GS-318-4/5, Code 3191 - Provides secretarial and administrative support to the systems engineering branch. Experience on PCs desirable, but will train. Promotion potential to GS-5, if filled at the GS-4 level.

No. 06-02, Secretary (Typing), GS-318-7/8, Code 06 - Incumbent provides secretarial and administrative support to the Test and Evaluation Director and T&E Directorate Staff. Position involves considerable interaction with all levels of management and off-Center officials. Knowledge of the STAR and MacIntosh computers desirable. Promotion potential to GS-8.

No. 32-238, Secretary (Typing), GS-318-6/7, Code 32 - Department

**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. 31-004, Interdisciplinary (Electronics Engineer/Computer Scientist), DP-855/1550-2/3, Code 3144 - The Weapons Integration Branch in the System Integration and Evaluation Division of the Aircraft Weapons Integration Department has an opening for a F/A-18 software design manager on the Stores Management System (SMS). The

incumbent will head a team of civil servants and contractors who design and maintain SMS software. Performance of these duties will require the incumbent to acquire a thorough working knowledge of the SMS hardware/software architecture and the relationship to complex multiple computer software/hardware systems. Position requires knowledge of machine

**Foundation courses may not be prohibitive to many scientists**

**PHYSICISTS, MATHEMATICIANS, AND CHEMISTS PLEASE NOTE!**

If you are a physicist, mathematician, or chemist and have wanted to earn a master's degree in engineering but thought the foundation course work required would be prohibitive, take heart! The actual number of foundation courses that you need to enable you to function at a graduate level may be only five or less, depending on your academic background. And those courses are available locally!

Cal-State University Northridge has external degree programs at NWC in electrical engineering, mechanical engineering and applied mechanics which lead to a master's degree. If you are interested in a master's degree, or want to take some engineering courses, or just need more information please contact Steve Lee, NWC ext. 2468.

**Classes being offered locally for Cal-State's degree programs**

The following classes are being offered this spring for the Cal-State Northridge Engineering Program (bachelor's and master's degrees); Cal-State Bakersfield Business Program (bachelor's degree); Cal-State Bakersfield Administration Program (master's degree) and Cal-State Chico Computer Science Program (bachelor's and master's degrees).

For enrolling in these classes (other than Cerro Coso) submit an on-Center Training Request (NAVWPNCEN 12410/73) via department channels to Code 094. Registration will be held in class at the first class meeting. Deadline for enrolling is 10 calendar days before the starting date of the class. Although training requests will be accepted after the deadline, that date will be used to determine whether the class will be held.

**CAL-STATE NORTHRIDGE**

ME 370: THERMODYNAMICS  
January 26-May 18; Mondays; 1530-1830; Training Center. By Professor Tim Fox, CSUN.

Prerequisite: Physics 1a (Mechanics) and Math 6c (Calculus).  
Text: "Fundamental of Classical Thermodynamics," Van Wylen and Sonntag, 3rd edition, Wiley, SI version.

ME 510B: SEMINAR IN ENGINEERING ANALYSIS

January 27-May 21; Tuesdays and Thursdays; 1600-1730; Training Center. By Bob Rockwell, Ph.D., NWC ext. 5597.

Prerequisite: Graduate standing.  
Text: "Advanced Engineering Mathematics," Wylie and Barrett, McGraw-Hill, 5th edition.

ME 590A: ADVANCED TOPICS IN FLUID DYNAMICS -- INVISCID FLOW

January 26-May 20; Mondays and Wednesdays; 1600-1730; Training Center. By Ray Van Aken, NWC ext. 7483.

Prerequisite: Thermodynamics and Fluid Dynamics or consent of instructor.  
Text: "Compressible Fluid Flow," M. A. Saad, Prentice Hall, 1985.

IE 520B: ADVANCED MATERIALS ENGINEERING -- COMPOSITES

January 27-May 21; Tuesdays and Thursdays; 1130-1300; Training Center. By George Hayes, Ph.D., NWC ext. 1038 and Craig Porter, Ph.D., NWC ext. 2824.

Prerequisite: AM 420A (Advanced Mechanics of Materials) and IE 427 (Mechanical Properties of Materials) or consent of instructor.

Text: TBA.