



**NAVY RELIEF** — AMH3 Ivan Dunnan of NWC won top prize in the Navy Relief Society fund drive drawing last week. The drawing was conducted by (from left) LCdr. Rich Bruce, drive chairman; Renee Phillips, NRS chairman of volunteers; Lt. Tim Cleary, Code 61 chairman; and Lt. Sarah Clinkscales, VX-5 chairman. Other winners in the drawing were AMS3 Gary Cooper and Lt. Victor Cerne. The fund drive has netted the Navy Relief Society at China Lake more than \$17,500 to date, said LCdr. Bruce.

## Maturango Museum offers summer program

Now is the time to sign up pre-fourth and pre-fifth grades for the annual Museum Summer School. The program, emphasizing natural history, will be held from June 16 through June 26 at the Museum (located on East Inyokern Road, between the Traffic Circle and the Training Center).

Normal hours for the program will be

from 9 to 11:30 a.m., except when field trips are planned — those days will begin at 8 a.m.

At this time there are two field trips planned; one to Little Lake and the other will be an all-day trip to the Kern River Preserve.

Since there is a limit of 25 students for the program, children whose families have

membership at the Museum will have first priority. Cost for the program will be free

to Museum members. Children whose families are not members of the Museum may sign up for the program, but will not be notified if there is room for them until the week preceding the start of the program. There is a \$10 charge per child for children

whose families are not members of the Museum.

Family membership to the Museum is \$25 per year. Membership applications may be picked up at the Museum.

For more information about the Museum Summer School or membership to the Museum, contact the Museum at 446-6900.

## Movies

FRIDAY, MONDAY	"STAND ALONE"	JUNE 6
	Starring Charles Durning and James Keach (Drama, rated R, 93 min.)	
SATURDAY	"POWER"	JUNE 7
	Starring Richard Gere and Kito Capshaw (Drama, rated R, 110 min.)	
SUNDAY	"THE PIRATES OF PENZANCE"	JUNE 8
	Starring Kevin Kline, Angela Lansbury and Linda Ronstadt (Comedy, rated G, 112 min.)	
WEDNESDAY	"YOUNG BLOOD"	JUNE 11
	Starring Rob Lowe and Ed Lauter (Sports, rated R, 110 min.)	
FRIDAY	"MY CHAUFFEUR"	JUNE 13
	Starring Deborah Foreman and E. G. Marshall	

Starting Times: Matinee / 2 pm Evening / 7 pm

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

★ U.S. Government Printing Office:  
1986 No. 40008

FROM: \_\_\_\_\_

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## NEX News

Starting tomorrow, the Navy Exchange will hold a super Father's Day sale for those looking for a special item for that very special person.

For a different gift, the NEX suggests stopping by its personalized services store to order special flower arrangements, which can be in a hunter's tankard or a flower arrangement with a six-pack of beer tucked in among the blossoms. Orders for flowers must be received by June 13.

Along with congratulations for all graduates, the NEX suggests sending them floral arrangements and grad mugs. Special orders for graduations must be received by June 10.

Tomorrow there'll be a demonstration on Fisher stereos from 10 a.m. until 2 p.m.

And for all those penny pinchers, there's a clearance sale underway on men's, women's and children's clothing.



	Max	Min	Peak Gust
Fri. 107	72	23 knots	
Sat. 107	65	39 knots	
Sun. 104	68	21 knots	
Mon. 103	67	22 knots	
Tues. 103	65	22 knots	
Wed. 98	61	25 knots	
Thurs. 95	65	27 knots	

All measurements are made at Armitage Airfield.

## Scouts sell ID tags now

This week and next Girl Scouts will be selling identification tags for children, adults and pets at only \$2.75 each. The identification tags come in a variety of designs to match the personality of those for whom they are purchased. They are in the form of either necklaces or bracelets made of highly polished stainless steel and conform with Civil Defense recommendation.

ID tags can also include emergency information such as medical problems or allergies.

Orders must be prepaid and must be sent by June 16. Envelopes to place orders can be found at the Kern County Library, the Ridgecrest Recreation Department, the ITT office at NWC, the NWC Children's Centers and the NWC Youth Center (skating rink).

Those placing orders should fill out where they would like the tags delivered. Orders must be prepaid by check or money order (no cash) and the completed order should be sent to Girl Scouts, c/o C. Meeks, 223 Peg Street, Ridgecrest, CA 93555, before the deadline. The completed order will be sent in about 6 weeks.

A confirmation or order/receipt for payment will be returned to those who enclose a self-addressed, stamped envelope.

Anyone with questions should telephone Charlotte at 375-2921 evenings.

The ID tags are being sold by the Roadrunner Neighborhood of the Girl Scouts as a fund-raising project.

## Library is part of essential research foundation

An essential foundation for any research and development effort is a good collection of resource documents. The Center's Technical Library proves just how helpful such a collection can be.

The Tech Library maintains a collection of more than 200,000 volumes consisting of 25,000 monographs, 2,000 monographic serial titles, 750 active periodical subscriptions, 1,000 closed periodical holdings and more than 160,000 unclassified technical reports. The collection also contains more than 20,000 classified reports.

Large as these numbers are, they represent only the tip of the information iceberg for Tech Library users. On-line databases as well as interlibrary loans can make available almost any information in any of the nation's major research libraries.

To ensure that user needs are being addressed, the Technical Library Advisory Board, made up of representatives from most NWC departments, meets each month. Among its accomplishments, the Advisory Board makes decisions on what parts of the collection can be surplus and what parts are classic materials that form the core of a research collection.

"The library holds a world of useful information," says Gerry Auger, who heads the Advisory Board. "By providing a support group to the Tech Library, we and our organizations all stand to gain."

With the tightening of R&D funding, the Department of Defense is cracking down on its mandate that library research must be performed to determine whether a project has already been attempted before money is allocated to that project. This increasing DOD emphasis underscores the important role the Tech Library plays in the Center's activities.

Liz Babcock, head of TID's Library Division, says that the library staff not only continually adds to its collection materials essential to the Center's mission, but also works to make this material as easily accessible to the user as possible.

"We're not sure the average NWC employee realizes the broad scope of the information we can provide," she said. "We'd like to encourage our users to call us with questions on any and all topics where answers can be found through reference services."

## NRS income tops \$17,500

China Lakers have pledged or contributed more than \$17,500 thus far in the annual Navy Relief Society fund drive, reported LCdr. Rich Bruce, 1986 NRS Drive Coordinator.

Donations are still coming in and will continue to be cheerfully accepted by any of the key persons involved in the effort this year.

Among the highlights in the month-long drive, was the 2nd Annual NRS Softball Tournament sponsored by Air Test and Evaluation Squadron Five (VX-5) with AECS Barry Hileman and AMS2 Jesse Pigford playing a key role. In addition, NWC's Explosives Ordnance disposal detachment worked with Chuck Lewis to sponsor the Third Annual B-Mountain Bash.

LCdr. Bruce said these have become traditional events for the NRS drive as has the prize drawing held last week where AMH3 Ivan Dunnan of NWC had his ticket drawn for the top prize.

Also last weekend, the VX-5 sponsored softball tournament was won by the team representing the sponsoring organization, VX-5.

"Unless the answer to your question will take extensive research, our reference staff works hard to get back with an answer the same day," added Craig Pelz, head of the Information Services Branch.

The Tech Library is located on Blandy Avenue and Hussey Road, and the reference staff is available to help all walk-in patrons. Many users also find it convenient to request books and periodicals by telephone from the Circulation Section, which will send these materials to the requestors by guard mail.

A branch that works behind the scenes in

the Tech Library also offers important user services. The Technical Services Branch will assist Center employees by purchasing books and reports for code retention.

"Just give us a call with your questions in this area," said Mary Deirdre Coraggio, head of the Technical Services Branch. Form 5070/11, Request for Books, Magazines, Reports, is the vehicle to use to initiate an order.

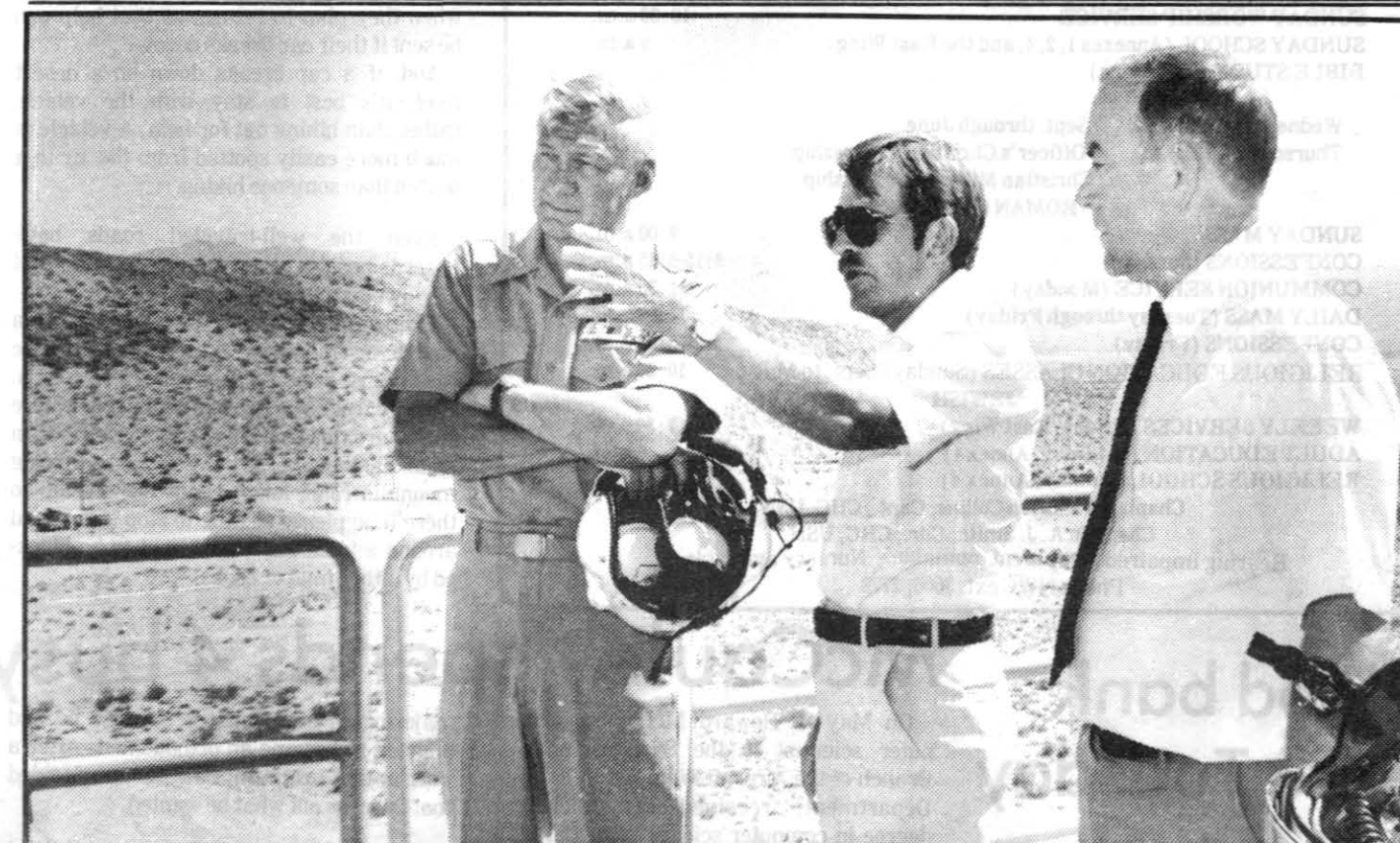
During the coming year the library will install an integrated on-line library system (IOLS) that will make using the library easier yet for anyone who has a terminal

linked to the Center's network. Within the next few years, users will be able to call up the library's catalog electronically to check holdings in any field.

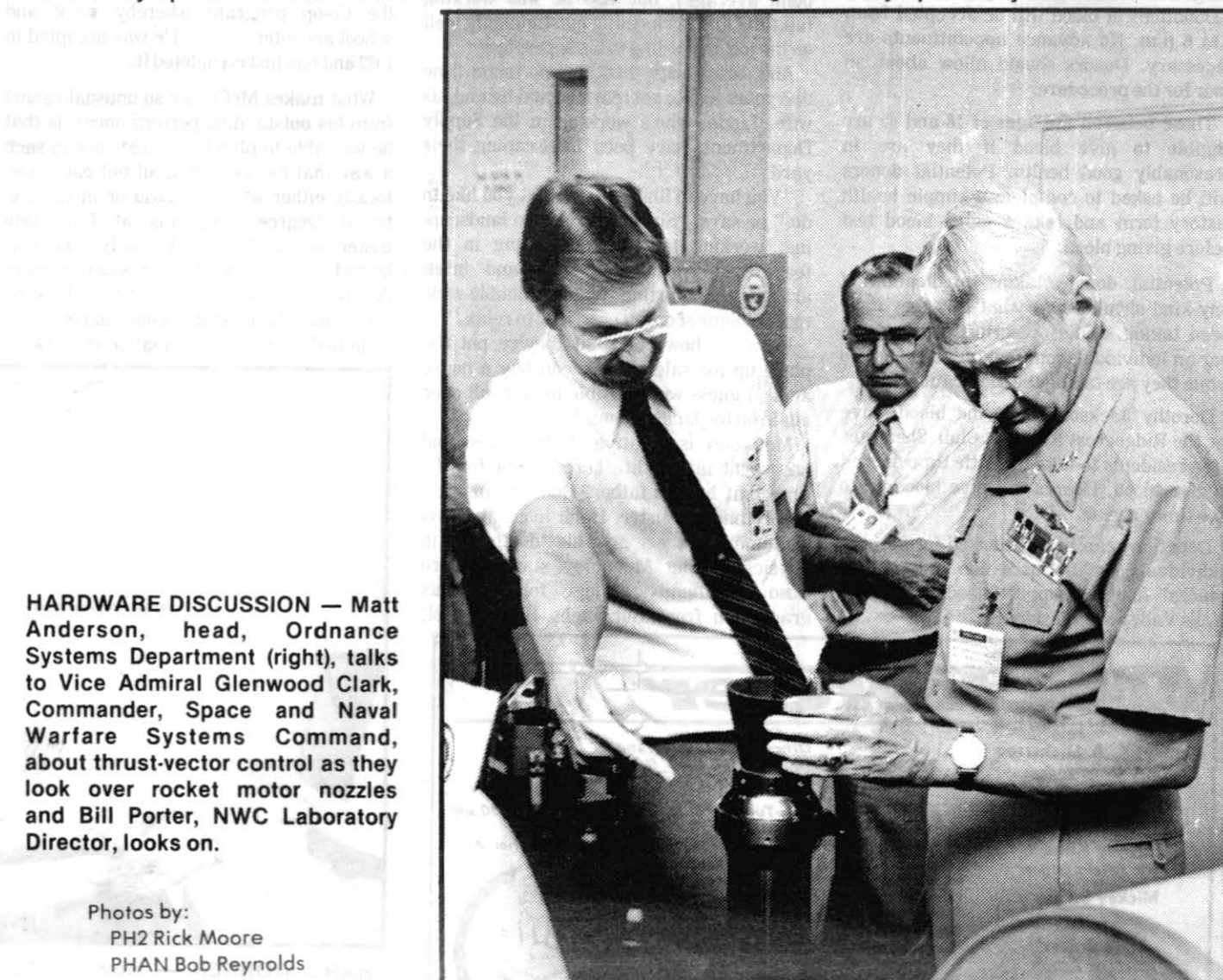
Review of IOLS bids is underway, and, since this will be a turnkey system, time from installation to operation should be relatively short.

The library also plans to consolidate its specifications library, technical report archives, manuals collection and serials collection, now scattered as far afield as the Comarco facility in Ridgecrest and an ex-

(Continued on Page 7)

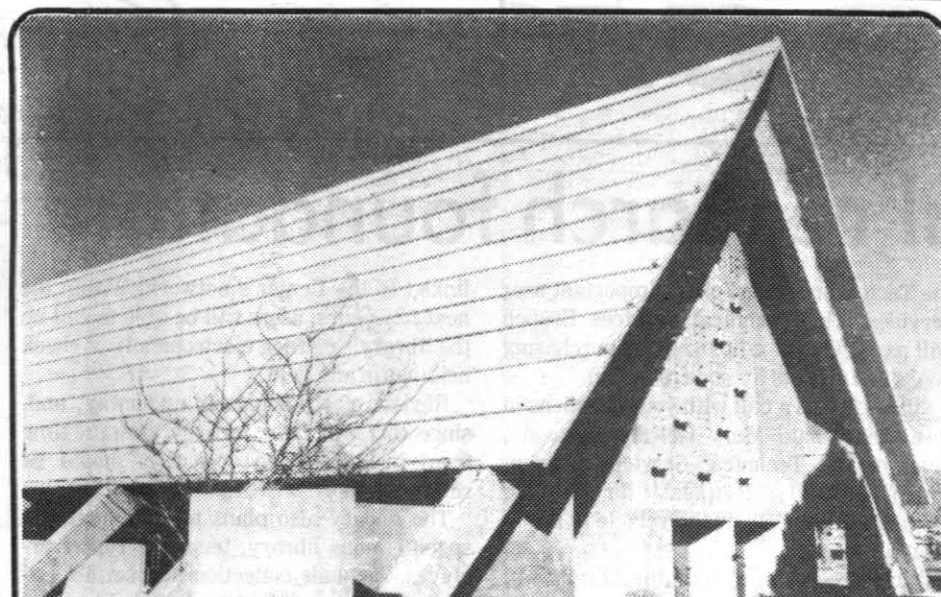


**TEST FACILITIES** — Crill Maples (center) head of the Range Department's Ordnance Test and Evaluation Division, points out facilities for testing rocket motors in the Skytop area to Vice Admiral Glenwood Clark, Commander, Space and Naval Warfare Systems Command. Gerry Schiefer, NWC Technical Director, accompanied Admiral Clark as he toured EWTES, the northern ranges and Skytop Monday afternoon.



**HARDWARE DISCUSSION** — Matt Anderson, head, Ordnance Systems Department (right), talks to Vice Admiral Glenwood Clark, Commander, Space and Naval Warfare Systems Command, about thrust-vector control as they look over rocket motor nozzles and Bill Porter, NWC Laboratory Director, looks on.

Photos by:  
PH2 Rick Moore  
PHAN Bob Reynolds



## 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
SUNDAY MASS	9:00 a.m.
CONFESSIONS (Sunday)	8:15-8:45 a.m.
COMMUNION SERVICE (Monday)	11:35 a.m.
DAILY MASS (Tuesday through Friday)	11:35 a.m.
CONFESSIONS (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	
Hearing impaired equipment available. Nursery available.	
Phone NWC ext. 3506, 2773	

## Blood bank here Tuesday

For the final time before fall, the Houchin Blood Bank will visit the Indian Wells Valley on Tuesday, June 10. Blood donors will again be asked to go to the Elks Lodge at 201 East Church Ave.

Donations of blood will be accepted from 1 to 6 p.m. No advance appointments are necessary. Donors should allow about an hour for the procedure.

Those between the ages of 18 and 65 are eligible to give blood if they are in reasonably good health. Potential donors will be asked to complete a simple health history form and take a quick blood test before giving blood.

Potential donors taking medication of any kind should know what it is they have been taking. Some prescription drugs will bar an individual from making the donation while they are taking the medication.

Dorothy Jackson heads the blood drive for the Ridgecrest Emblem Club. She urges area residents to take the little time needed to give blood. Donors can give blood up to five times a year.

Donations can be earmarked for specific individuals, or be used as part of the general fund to support needs of Indian Wells Valley area residents.

## McCauley spends 4 busy years

On May 25 Howard McCauley, a computer scientist in the Systems Analysis Branch of the Aircraft Weapons Integration Department, received his bachelor's degree in computer science from Cal State University at Chico — marking the end of four very busy years.

Not only was he taking a full load of college classes (with a better than 3.7 grade point average), but also he was working full time and performing outstandingly well on the job, according to his supervisor.

And, along with this, he also found time two years ago to get married and he and his wife, Linda, who's working in the Supply Department, have been landscaping their yard.

"You have to find time to what you like to do," he says. "Since we both like landscaping, working together on putting in the fence and sprinkler system and brick around the skirting of our double-wide mobile home seems a good way to relax."

He adds, however, that they've put the place up for sale so they can buy a house and, "I guess we'll be able to start all over again on the landscaping."

McCauley is a native of Ridgecrest and has spent all his life here except for the time that he, his father, Don, his mother, Nancy and his sister, Heidi lived at Davis while his father got his doctorate in physics. Young McCauley started Cerro Coso Community College following his graduation from Burroughs High School.

## Drivers: Beware of floods!

Summer and hot weather bring an increase in weekend travel — and, although other than on holiday weekends, the roads are less crowded than they are in a big city, desert roads do have some special hazards of their own.

Since towns and even gas stations tend to be long distances apart, it's vital that any traveler be sure his or her car is in good condition, and that maps, spare tire and a jack and water are taken along on any trip out of town. Also, it's a good idea always to top off that gas tank before heading into the wilds.

Those planning to get off well-traveled roads should leave word with a responsible person about where they are going and when they plan to return, so that help can be sent if their car breaks down.

And, if a car breaks down on a desert road, it's best to stay with the vehicle rather than hiking out for help. A vehicle is much more easily spotted from the air in a search than someone hiking.

Even the well-traveled roads have hazards besides other drivers, hazards that city-dwellers seldom think about.

Prime among these is a flood caused by a desert or mountain rain storm. In the mountains, mud slides can close roads. Equally, rock slides are apt to occur where rocks are loosened by either rains or a small earthquake. If traveling on a curving mountain road, keep speeds low enough so there'll be plenty of time to stop if the road around a blind curve turns out to be blocked by either mud or rocks.

The biggest danger in the desert is not so much from rain falling on the roads themselves but from flash floods that fill gullies and washes with water that's run down from surrounding mountains.

Any gully or wash that has water running in it should be approached with care. Often there's no way to tell just how deep the water is, or how fast it's running. No one should try to wade across to see how deep the water is; it may be much deeper and faster than it appears.

And drivers who travel after dark need to exercise special care because their headlights may pick up what looks like just a thin film of water on the road that turns out to be a gully full of water six feet or more deep. When driving at night on the desert, it's necessary to watch not only the road but also the sides of the road to see if there's a possible gully or wash.

Since water can wash out the ground under asphalted roads enough so the road is unsupported, anyone coming upon a road that's barricaded should heed that barricade.

And a final word of advice about unlighted desert and mountain roads. Large sections of the west are still unfenced range and cows like to lie down on warm asphalt at night. While a cow that's hit by a car is not going to walk away from the collision, the car is not going to be unscathed either. A prescription for sure trouble is a dark cow on a dark road on a dark night, and a driver that's driving at speeds too great for him to stop in time if a cow ambles into the path of his headlights.

majoring in pre-dentistry because he had planned to become an orthodontist. After a year in that program, however, he decided that this was not what he wanted.

He had taken a computer course while at Cerro Coso and enjoyed that thoroughly, and also had gotten somewhat acquainted with the use of the computer while working as a summer hire at NWC, so he applied for the Co-op program whereby work and school are interrelated. He was accepted in 1982 and has just completed it.

What makes McCauley so unusual (apart from his outstanding performance), is that he was able to plan his coursework in such a way that he completed all but one class, locally either at Cerro Coso or in the External Degree Programs at Cal State Bakersfield and Chico. The only class that he had to leave town to take was one upper division general requirement for which he had to drive to Bakersfield one quarter.

He feels that the combination of working

and taking classes has benefitted both his school and work performance because he's been able to apply what he's learned immediately. "Being able to use what I learn on the job instantly has enabled me to see that knowledge in my brain," he notes.

And, again an unusual situation, after having worked at NWC for four years, he's now qualified to start his Junior Professional program. So far he's got one tour lined up where he can pursue a particular interest of his, that of computer imaging.

What he likes about his job is that schooling has been encouraged by his management and by Center Command. "It's a great way to keep qualified people," he says, "and to keep them motivated."

And, of course, he's going to continue with his schooling. Along with the classes that he took to earn his bachelor's degree, he's already taken enough additional classes so that by the end of this summer, he'll have half the requirements for his master's degree completed.



**HARD WORKER** — Howard McCauley is entering the Junior Professional program after completing his bachelor's degree requirements in computer science during the last four years while working full time as a co-op student.

— Photo by PHAN Bob Reynolds



**NEW OFFICERS** — The Navy League of the Indian Wells Valley installed new officers during the May meeting. The new officers, and their positions, include: (front row from left) John DiPol, president; Bea Tracey, secretary; Bill McEwan, 2nd vp; Sissey Moore, director; and Ralph Vuono, executive vp. Also (back row from left) Capt. K.A. Dickerson, guest speaker and installing officer; Tom Andress, director; Rich Surprenant, treasurer; Julie DeGraw, director; and Tom Franklin, director. Missing from the photo were Marial McEwan, secretary and Lap Slater, historian and judge advocate.

— Photo by PHAN Bob Reynolds

## Scorps bow in Soccer Devil clash

Ridgecrest's Scorpions Under-19 team had to battle heat, smog and the Riverside Soccer Devils in their Inland Empire Youth Soccer League clash on Saturday. The Scorpions came out on the short end of the 3-2 thriller.

The Scorpions will wrap up their season on Sunday (June 8) when they host this same Riverside squad in a make-up game at Davidove Field. Game time is set for

12:30 p.m.

Last week, the Scorpions took the lead first, but failed to hang on for the win. The home team had a 2-1 shots-on-goal edge against the Scorpions and used a breakaway goal for the win with 16 minutes left to play.

Bill Ledden started a late rally with a near miss at the 87 minute mark. Two minutes later Scott Hannon ripped the ball past the Riverside goalie to close the gap.

Time expired before the Scorpions could mount a real threat to tie the game up.

Scott Piri scored early in the first half to give the visitors the lead for about 20 minutes.

Ridgecrest is assured of a third place finish, but Riverside must spend the Scorpions on Sunday if they want to edge San Bernardino's Cosmos for first place honors during regular season league competition.

## Rec Services offers white water adventure

White water rafting down the South Fork of the American River will highlight a three-day trip to the high Sierra sponsored

by NWC's Recreational Services Department.

Skilled river guides will conduct the two

full days of rafting during the Aug. 1-3 excursion. The trip includes five meals, camping facilities and transportation to and from the river put-in point.

## Catalina trip scheduled

Jump aboard the "Catalina Holiday" and enjoy a scenic cruise from Newport Harbor to Catalina Island on Saturday, June 28. Spend the day in Avalon and take in all the beautiful attractions it has to offer.

The Recreational Services Department van will be leaving at 5 a.m. and return at 11 p.m.

The cost of the trip is \$30 each for military and \$32 each for DOD civilians.

The fee includes transportation costs, trip reservations to Catalina and refreshments that will be available on the van.

People 13 years and older are eligible for the trip. The last day to register is Wednesday, June 25 at 5 p.m. Van seating is limited and will be handled on a first-come first-served basis.

For complete details, call the Information, Ticket and Tour Office at NWC ext. 2010.

## Summer means yard work

Warm weather is here and it is a signal to begin work on lawns. It means watering, cutting grass, trimming shrubs, etc.

The housing office routinely inspects the housing area, issuing yard violations when necessary. Naval Weapons Center Instruction 11101.1L (NAVWPNCENINST 11101.1L) establishes the tenants' responsibility for yard maintenance. All landscaped areas are to be kept cut, trimmed and watered. Other grounds are to be raked clean and free of weeds, leaves, debris, holes and unsightly conditions.

If it becomes necessary to issue a second notice, this will be a formal letter requesting yard maintenance be accomplished and a date will be given for a re-inspection. Failure to comply may result in the

termination of eligibility for housing at the Naval Weapons Center.

Several projects in the housing area have been completed recently. Contractors are maintaining yards of units undergoing change of occupancy work and recently a one-time "clean-up" operation was designed to get the season off on the right track by picking up anything and everything any resident wanted to set out for collection.

Now, NWC needs your help to do the rest of the job. Take a look around your lawn area for clutter or trash. Take a moment to put it right. No one enjoys receiving a yard violation. An effective program of mowing and trimming around lawns and flower beds will give a touch of beauty to your home.

Remember, the new hours for the Self Help Store are 11:30 a.m. to 5 p.m. Monday, Wednesday and Friday. There is a supply of fertilizer and grass seed available to help you maintain attractive yards. In addition, lawn mowers, gardening tools, pruning shears, post hole diggers, hand clippers, etc., are available. The Housing Office also maintains a list of teenagers who are interested in doing yard work.

## Library . . .

(Continued from Page 1)

pluses storage bunker at CLPP. These collections will be moved to a set of rooms adjacent to the machine shop in Michelson Laboratory where personnel in the Engineering and Research Departments, major users of these collections, will have ready access to them.

As part of a drive to consolidate access to the Center's information, the library is now trying to identify what is contained in NWC's numerous special collections of reference materials (the largest of which is Code 12's Intelligence Library) and to determine from the holder of each collection whether it is available for use by China Lakers other than those in the code maintaining the special collection. Dolores Rhamy, NWC ext. 2507, is the library focal point for this collection identification effort.

Plans are to list as many as possible of these holdings in the library's electronic catalog, with appropriate notations about cognizant codes. In the first phase of this effort, the staff is inputting the periodical holdings of its own satellite collections, the Computer Library and the Center Library.

All these activities have one aim — service to Center employees. "Our entire staff is eager to be of help," says Mrs. Babcock. "The library is not a repository of dead documents, but a living link to vast resources that can be of enormous help in any scientific, engineering or administrative area of expertise."

## Water polo competition

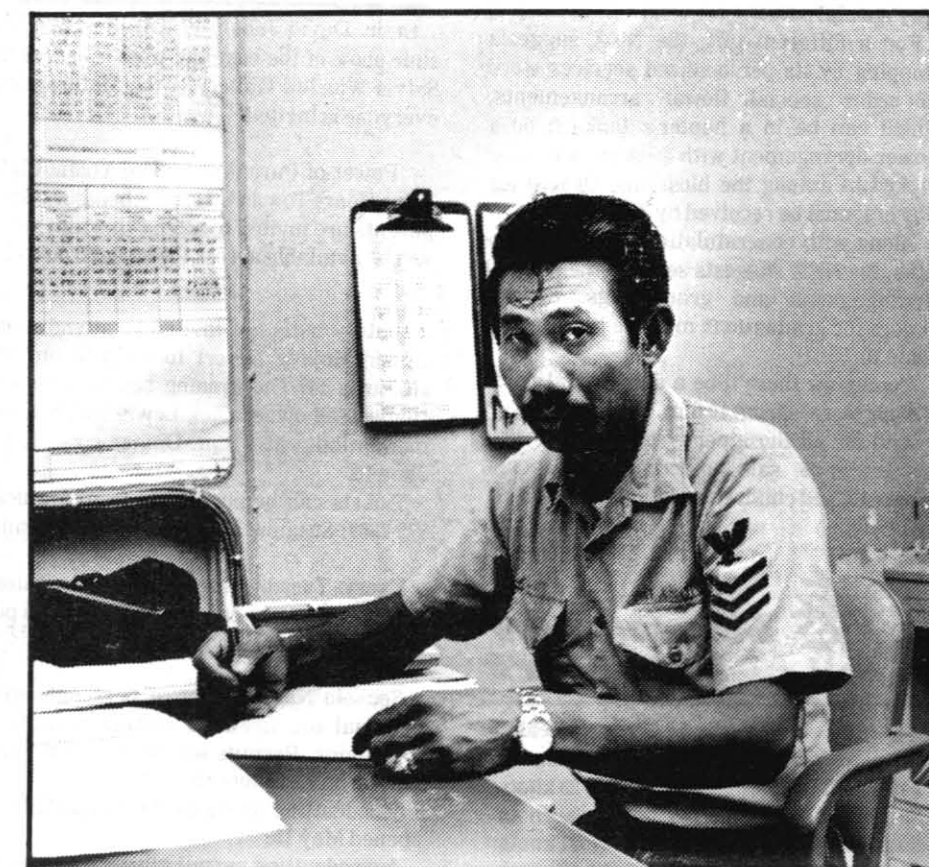
Innertube water polo competition begins on June 23 at the Center's indoor pool. The weekly water polo games are open to anyone who can swim four widths of the indoor pool.

Competition will be held every Monday night for two months starting June 23 at 7 p.m. There is a \$1 per person, per session fee for taking part in this event.

Young swimmers can try out for the IWV Swim Team on June 10 and 12 at the Center's indoor pool. Call Swim Team officials at 377-4270 for additional information.

Additionally, Aqua Aerobics classes continue to be offered through Recreational Service's Sports Branch. There are three different class schedules. Call the sports branch at NWC ext. 2334 for details of this popular program.

For additional information call the ITT Office at NWC ext. 2010.



**ANOTHER HITCH** — Mess Management Specialist First Class Salvador N. Calandria re-enlisted for another tour in the Navy last month. Petty Officer Calandria is assigned duty at the Naval Weapons Center Galley and has been on board the Center for nearly two years.

## NWC Rocketeer

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NWC Commander

Gerald R. Schiefer

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## Fishing improves in eastern high Sierra region

Anglers planning weekend visits to the eastern high Sierra should be aware of high, fast, hazardous water conditions on all streams coming out of the mountains.

Some of the best fishing to be found is in the Owens River, south of Manzanar and east of Black Rock Fish Hatchery. Trout fishing on the lower Owens is spotty, with crickets still the best bait.

Lake Sabrina and South Lake are giving up good catches of rainbow trout. A Compton resident took a 4.5-pound brown trout from South Lake using a nightcrawler on Sunday. At Intake Two, the bubble-fly combination is producing best results with gray hackle and black gnat flies the most popular.

Crowley Lake is still good for trout when anglers use flies close to shore. Sacramento perch fishing is hot. Purple crappie jigs

with a piece of worm bring best results.

Rock Creek Lake has been ice-free for about a week and fishing is picking up. Anglers have caught up to six-pounders on marshmallows and worms.

Lake George is still frozen in the Mammoth area, while Lakes Mary and Mamie are mostly ice free. The best fishing is in Twin Lakes, near the waterfall. Mammoth Creek is running high and fast. Hot Creek is



## Sports

### China Lake Little League treats fans to 7-6 thriller

Little League baseball fans were treated to an exciting game on May 30 when the Dodgers nipped the Yankees 6-5 for their first victory of the 1986 China Lake Little League season.

Yankee pitchers Paul Kaiser and Gary Ahr combined to fan 12 Dodger batters, but Mike Larson's 11 strikeouts came in behalf of the winning team.

Breaking a 4-4 tie, Jay Connors singled home two runs in the bottom of the fifth

frame. Chris Shoaf scored what proved to be the winning run for the Dodgers.

Mike Mayhugh and Cedric Hamilton had two hits each in the contest. The Dodgers' first win came behind six hits and numerous walks.

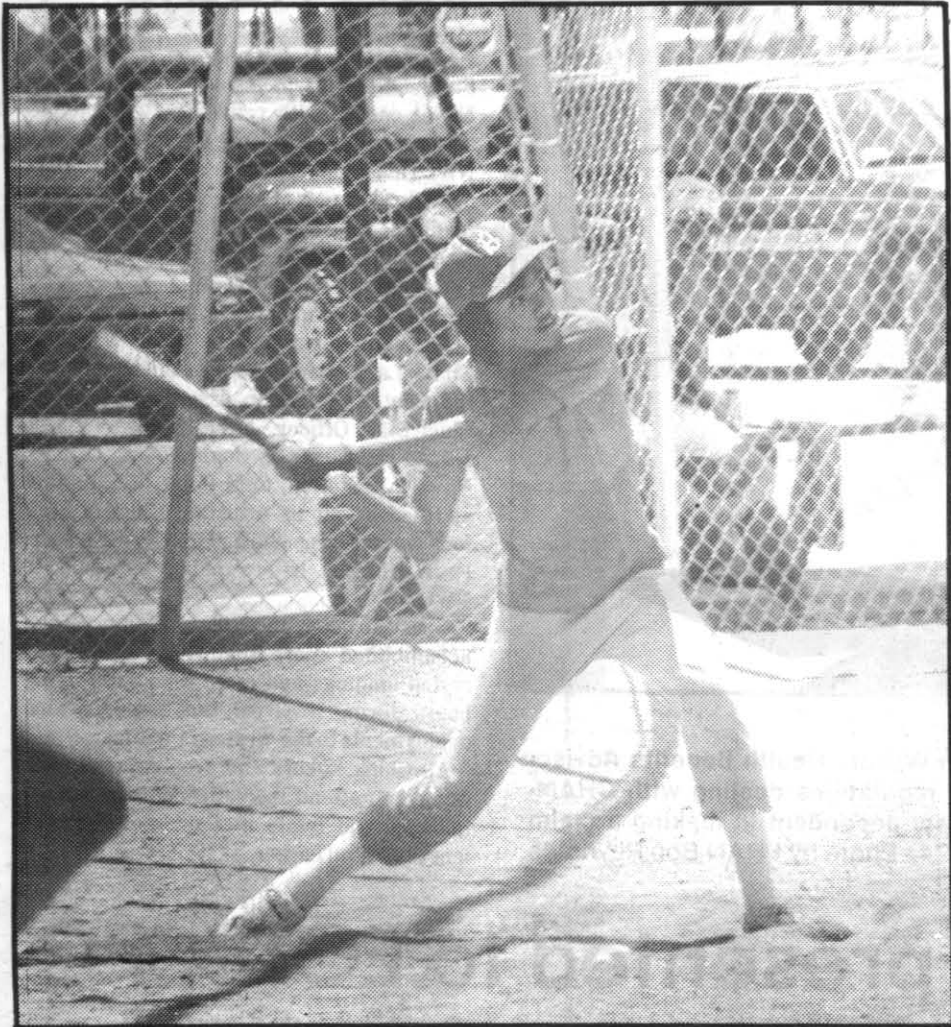
Regular season play for the China Lake Little League is now in the final month. Tournament and All-Star action is coming up during July.

### Softball ends opening round

First round play has been completed in the Naval Weapons Center's Intramural Softball League. The second round of play will determine the top three teams in each division to take part in the seasons-end championship tournament.

VX-5 leads the Blue Division with a 6-0 record while the O's are a game back at 5-1. Leading the Gold Division is From-The-Hip with their unbeaten 6-0 record. The Aints and Hopeless are at 4-2 in second place.

In other softball action, NWC's men's and women's varsity teams will compete in the Mojave Desert Interservice League and Southern Pacific Area Tournaments this month. MDISL action begins for the men on June 6 at Vandenberg AFB, while the women will start the same day at Edwards AFB. Southern Pacific Regional action for the men begins June 13 at Point Mugu while the women will return to tournament action in San Diego on June 20.



**BIG SWING** — The batter has a mighty cut as he swings and misses during softball tournament action on Saturday. The tourney was sponsored by the Navy Relief Society as part of the NRS annual fund drive. — Photo by Steve Boster

### High water poses hazard

Warm rains and hot weather have combined to bring a lot of spring run-off down the Sierra creeks leading into the Owens Valley as well as those draining into Mono County waters. As a result, Department of Fish and Game personnel recommend that any families camping or fishing near any of these keep a close watch on small children (and exercise due caution even if they are adults) because the water is high and fast.

Several campgrounds — such as the one on Oak Creek — have been closed because of flooding. Gray's Meadows campground

near Independence is being sandbagged to keep the flooding Independence Creek from washing out facilities. Some roads leading into campgrounds are also endangered, so general wariness is advisable for anyone heading up into the Sierra.

Fishing in the Owens Valley and in the creeks leading into the valley was very poor last weekend because of the runoff. The hot weather also doesn't help. Those planning to head north regardless are also advised strongly to carry mosquito repellent — the little critters are out and are hungry.

### Lake Isabella nearly full as anglers enjoy season

Lake Isabella is nearly full, and the water is still rising. While spring runoff down the south fork area has peaked, the upper Kern River is still at or above flood stage. Fishing in the upper river is not good because of this massive amount of water; those who like to fish the Kern should try heading below the dam down towards Bakersfield.

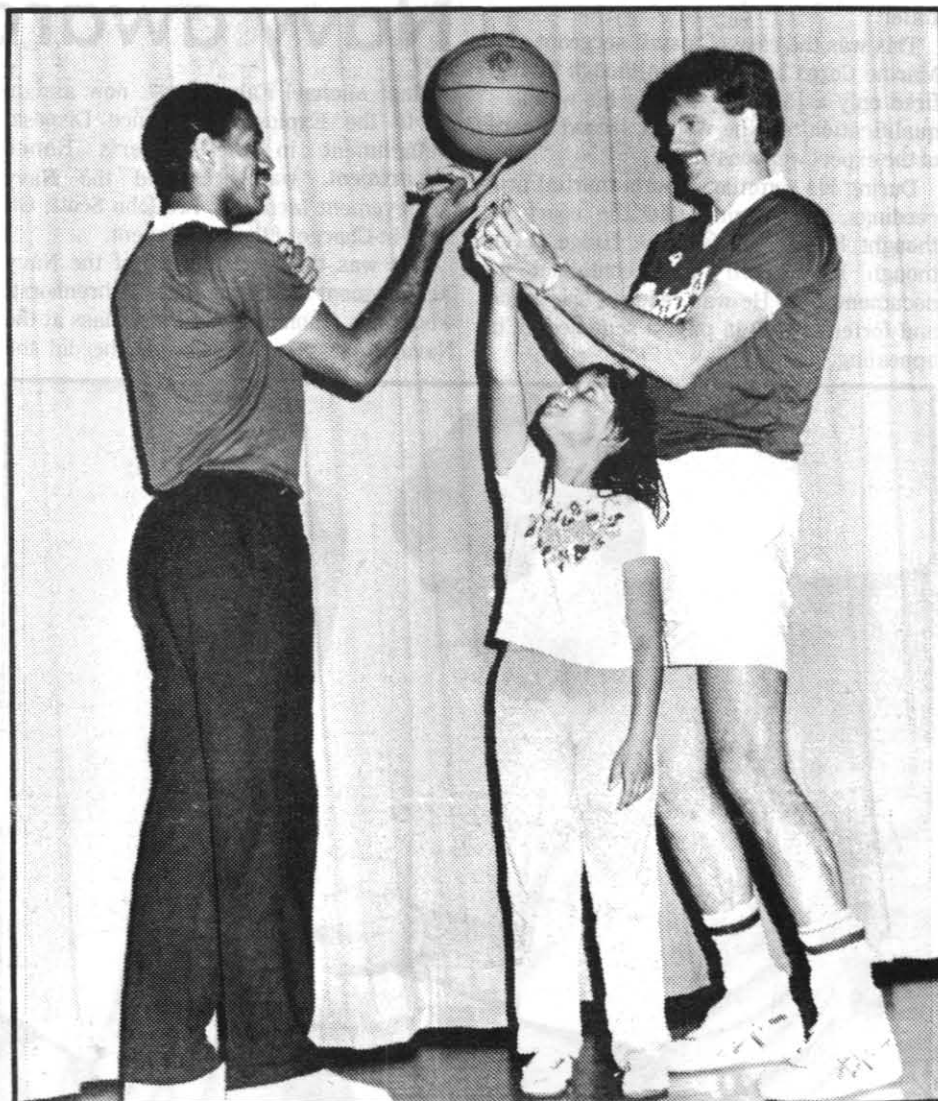
Trout are being caught in Lake Isabella, mainly from shore. These are bigger than

planters; they are running about 14 inches.

A few bullheads are being taken in the grassy and flat areas of the lake. Anglers trying for these and for other catfish should use worms.

A few bluegill are now being caught around the rocky shores. Best bet for these is to take a boat to either Piney or Rocky Point.

Bass fishing has slowed but surface plugs are still resulting in some catches.



**SHOOTING STARS** — Members of Meadowlark Lemon's team performed at Richmond School before a benefit basketball game last week. The players talked to children about the hazards of substance abuse.



## The Skipper Sez...

### QUESTION

**Military dependent and civilian employee** — My questions are about the enforcement of the seatbelt laws. I am wondering if the police department is exempt from them. I have noticed that the base police don't use their seatbelts, and I have also noticed that the taxi drivers still aren't using them. I just wondered if the police are exempt and if they are not enforcing the law on the base. Thank you.

### ANSWER

The seatbelt law is being enforced on Center. The law requires that an officer issue a seatbelt citation only after having probable cause to stop a vehicle for another offense. Then, if the driver or passengers are observed not wearing seatbelts, a citation can be issued. China Lake police officers are not currently exempt from the seatbelt law; however, there is pending legislation to exempt all law enforcement personnel from the requirement to wear a seatbelt during the performance of their official duties. The exemption is being requested because of the safety hazard involved with an officer attempting to exit the vehicle during emergency situations and the high probability of the officer's personal equipment (i.e., weapon, belt radio, etc.) hanging up in the seatbelts. Until a change to the law is actually made, however, China Lake police officers will continue to comply with the requirements for all drivers to wear a seatbelt.

### QUESTION

**Civilian employee** — Recently I noticed that at the southwest corner of Knox Road and Bowen Road, a building was freshly painted by a contractor. It was then painted by Public Works a week or two later. Isn't this a case of fraud, waste and abuse?

### ANSWER

Painting for this contract called for the application of three different colors on various parts of the building. Upon completion, the finished product was unappealing and did not blend into the site well. The Division Head occupying the building had a portion of the building repainted on a service chit. He has been reprimanded for taking this action on his own. However, a management review of the completed job, more than likely, would have resulted in a similar "fix" for this problem.

### QUESTION

**Military** — I just kind of wondered if anything was going to be done about the intersection at Ridgcrest Blvd. and South Richmond. It has a lot of traffic; there have been a couple of accidents already, large lines and some high-speed traffic. It gets pretty bad in the morning with people coming to work, at noon time and again in the afternoon. I was hoping that maybe we could put up some signs, or lights, that will only work during the busy hours; and I was just wondering if that could be checked out and addressed. Thank you very much.

### ANSWER

The intersection of Ridgcrest Boulevard and South Richmond Road is the responsibility of the California Department of Transportation (Cal Trans) because that part of Ridgcrest Boulevard is a state highway. The issues you mention have been addressed with Cal Trans on previous occasions and again recently in an official request that a study be made of that intersection. Cal Trans is concerned with the traffic problem there as well as at the main gate and is endeavoring to find a solution. However, as with all organizations, Cal Trans also has budgetary constraints and must prioritize its efforts — it may be a while before action can be taken.

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

### Skipper retires

Capt. K.A. Dickerson, Center Commander, will retire at the end of this month. A party honoring him and his wife will be held on Thursday, June 26 and everyone on board the Center is invited to attend.

The party will be held at the Commissioned Officers' Mess, with a social hour at 6 p.m. and presentations at 7.

Those who plan to attend should get in touch with the Protocol Office, Code 0031, NWC ext. 1365. Each person attending will be asked to contribute \$5 toward cost of hors d'oeuvres and other party expenses.

### Passes change

Effective June 6, daily visitor passes (visor cards) will no longer be issued at the Richmond Gate or the Burroughs High School Gate; they will only be issued at the Main Gate. Access will continue to be granted at all three gates to vehicles with DOD bumper decals, or if the driver has a valid NAVWPNCEN badge or pass (including daily visitor pass/visor card).



## Letters to the Editor

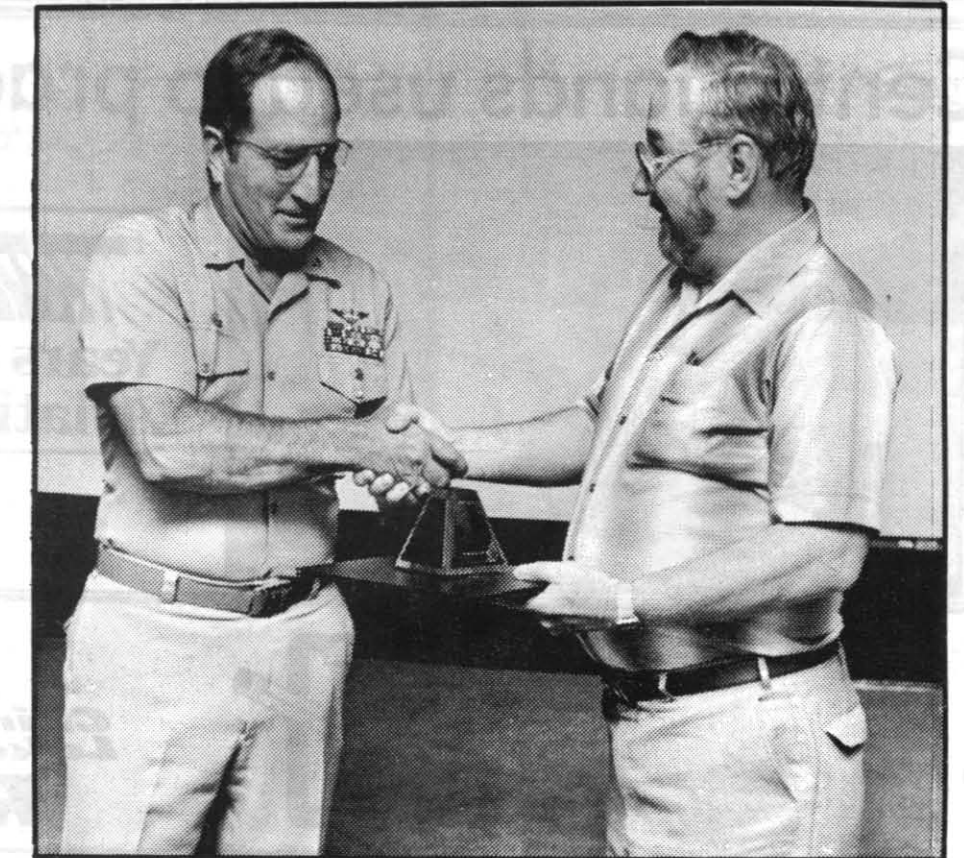
### Letter to the Editor:

I wish to express my gratitude and appreciation to all the NWC people for the tremendous support and team effort over the last several years. The outstanding show of support and comradeship at the retirement parties will be remembered by myself and my family for the rest of our years. It goes without saying that it is that show of solidarity that has caused NWC to contribute more to the Fleet at considerably lower cost than any other single organization!

That teamwork of the military/civilian/contractor is a winning combination that consistently provides positive results, but, as with most finely tuned devices, it is a very fragile relationship that requires constant nurturance, lest any member become too strong and withdrawn for whatever reason or cause, then the long list of highly successful NOTS/NWC programs will cease. I suggest each and every one of you be conscious of the very high demands on each of you to keep this delicate relationship in balance, and made every effort to support it.

NWC has been highly productive the last few years. I believe that has been in large part because there never was any question that I knew I had full backing of the China Lake people. I can never fully express my appreciation for that. It made the job fun, exciting and, as I said, "highly productive."

Thanks for letting me be your TD.



**OUTSTANDING ACHIEVEMENT** — Capt. K.A. Dickerson, Center Commander, presents Edward Scullin the Commander's Award for Mission Support for Scullin's work with the fiber optic trunk system.

## Efficiency in contracting gets Scullin Cmdr.'s award

"When someone is able to complete a contract under budget and ahead of schedule, that's a noteworthy achievement," said Capt. K.A. Dickerson on Monday morning during the Commander's meeting. This achievement earned Edward M. Scullin the Commander's Award for Mission Support for his work with the Fiber Optic Trunk System (FOTS).

Scullin, project engineer for FOTS, was involved from the beginning of the program. The letter of nomination for him written by Bill Ball, head of the Information Systems Group, notes that his in-depth knowledge of fiber optic and communication systems has allowed the Naval Weapons Center to "buy smart."

The letter points out that Scullin has provided primary technical expertise and project enthusiasm to solve the day-to-day problems through all phases of the project, from the original approval cycles to the source selection process.

"His contributions to this effort were

made possible by many years of study, research and experience," the letter points out.

Capt. Dickerson noted, as he handed Scullin the truncated pyramid, letter of commendation and stipend comprising the award, that "You've overcome a lot of difficulties. We really recognize the value of your contributions to the Fiber Optic Trunk System, especially during the period from 1984 to the present time."

Scullin, an engineering technician, has been a Center employee since February 1968.

## Emergency lines now operational

All 446 numbers aboard the Naval Weapons Center are now connected to the state-wide 911 Emergency Phone System. To reach the China Lake Police, Fire and/or ambulance for an emergency ONLY, all a resident has to do is dial "911."

On occasion, due to inaccurate data being entered into the 911 computer, a caller will reach the dispatcher at the Ridgcrest Police Department. If this occurs, the caller should remain on the line while the call is routed back to the China Lake Police Dispatcher. Little time is lost during this transaction since the two dispatchers have direct-line capabilities.

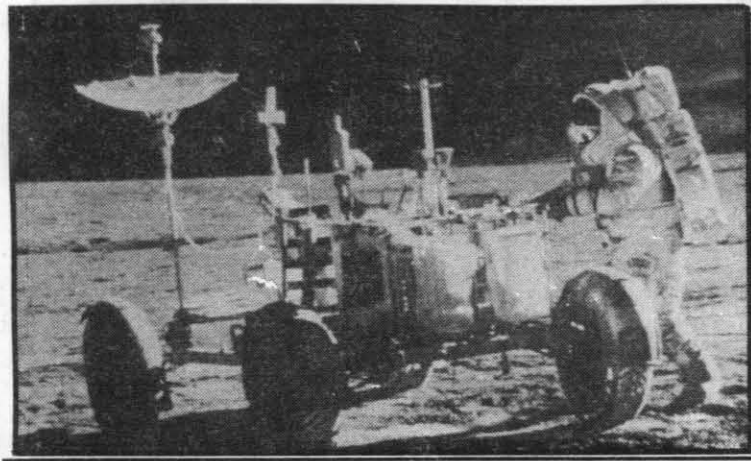
The Police and Fire Divisions want to remind residents that the 911 System is for emergencies only and is not to be used for routine calls for service or those curious about the system.

If you have any questions about the 911 System, contact Lieutenant John Pracchia of the China Lake Police Division at NWC ext. 2947/2593.

Telephone numbers beginning with the prefix 939 are not currently connected to the 911 System. Calls for service will continue to be at NWC ext. 3323/3324 for police and NWC ext. 3333 for fire and/or ambulance services.

**NWC HOTLINE**  
Integrity, efficiency program  
Call: NWC ext. 3636 (24 hrs.)  
or call the Inspector General at:  
(800)522-3451 (toll free)  
288-6743 (Autovon)  
(202)433-6743 (commercial)

## Center lands used to practice driving on moon



### 75 Years of Naval Aviation

Unkind comments made by some newly arrived personnel at China Lake that compare the terrain to the moon are not as far off the mark as perhaps some local chambers of commerce might wish.

The jagged and rocky landscape of the Center's range in the cinder cone area north of Little Lake was seen by NASA as an ideal place to let astronauts James Irwin and David Scott try out their driving skills in the moon rover, a vehicle designed to carry them over the lunar surface. Their practice mission took place in the spring of 1971.

In addition to enhancing their skills at driving their "lunar dune buggy," they also took part in a drill involving accurately describing rocks they picked up so they could do the same when communicating with earthbound scientists while they were on the moon. The object of that exercise was to ensure that only rocks of scientific interest would be brought back during their Apollo 15 mission.



### China Lake Police Reports

When police tried to notify the owner of a dog that his dog had been reported for barking on Hayward Circle, the owner was not home. They left a note, telling him of the complaint.

+++

Unknown persons damaged two vehicles parked in the dirt parking area east of the Pan American cleaners' facility. One was damaged very severely: not only were the headlights and windshield broken, but also the tires were punctured and there was body damage as well.

+++

Damage was also reported to a vehicle in the BEQ parking lot.

+++

At the intersection of Blandy and Richmond, one driver failed to see the other one driving across the intersection. Result: one damaged car when the two vehicles tangled.

+++

A resident on Coral Sea Circle reported that an unknown person shot a beebee shot through his dining room window.

+++

A bicycle was found by the cablevision trailer. Another was found by a resident on Hayward, who found a girl's bike on his front lawn. Both bikes are at the China Lake police station, where they can be reclaimed by their owners.

+++

A Ridgecrest resident was cited for engaging in an exhibition of speed on Inyokern Road.

+++

A five-year-old youngster was treated for being bitten on his left thumb by a gopher.

+++

Between \$1,000 and \$1,500 vandalism damage was reported to a car parked in the BEQ parking lot. Since there is reason to believe that the vandalism was performed by a military suspect, NSIC will pursue the investigation.

+++

A 22-foot 1986 Chevrolet motor home belonging to the government was burgled at Armitage Field. Unknown persons forced entry into two outer compartments.

+++

When a man who bought a 1986 Pontiac Trans Am was unable to keep up the payments, the car was repossessed.

+++

Juveniles were reported to be breaking bottles in front of the package store, but police were unable to locate them.

+++

An unknown vehicle hit a fence in the alley south of Bard Street. Since the driver did not file an accident report, this is listed as a hit-and-run.

+++

Two enlisted personnel got into a shouting match in BEQ One. They were warned and advised by China Lake police about disturbing the peace.

+++

A non-injury accident occurred on the Burroughs High School access road Tuesday when the driver of a vehicle heading north drifted across the road and hit a no parking sign, inflicting minor damage on both her vehicle and the sign.

+++

An unknown person removed 10 Liberty silver dollars from a wall locker in the BEQ. No sign of forced entry was found by police.

+++

NSIC has assumed the investigation of a grand theft involving the removal of 69 dozen mechanical pencils from a warehouse.

+++

A military person making a right turn at the intersection of Aviation Boulevard and Crusader turned too sharply and ran over a raised asphalt curb. No report of damage was filed.

+++

An assist to Ridgecrest police came from a girl turning herself in to the China Lake officers after she ran into her boy friend's vehicle several times at several locations. Ridgecrest police are continuing the investigation of this, which is termed an assault with a deadly weapon.

+++

A resident of a place on McIntire reported to police that someone removed a tool box containing tools from his vehicle.

+++

In a burglary reported at the Public Works Department compound, someone entered a locked government van and removed air conditioning equipment. There was no sign of forced entry.

+++

An eager thief took not only a \$500 bicycle from Murray Junior High School, but removed the lock and chain as well.

+++

When a husband and wife on Young Circle got into a discussion, it escalated to the point that police were called to keep the peace. Neither party wished to file a complaint.

+++

Police were unable to locate a prowler reported by a resident on Essex at midnight Sunday.

+++

A government vehicle struck a telephone pole at a Little League ball diamond. The truck received slight damage, the pole survived unscathed.

+++

## Old Crows meeting set

All members of the Robbers Roost Chapter of the Association of Old Crows will be held on Tuesday, June 17, in the Michelson Laboratory auditorium (Rm. 1000D). Guest speaker for the evening's technical meeting will be Fred Alpers from the Center's RF Development Division of the Electronic Warfare Department.

Alpers will discuss "When the Son of a Gun Throws the Switch," referring to what happens when an antiradiation missile is locked onto an enemy radar and the enemy radar operator shuts down the emitting signal.

signal.

The meeting is classified SECRET, so visitor clearances are required from contractors. Crows and guests who are interested in attending the presentation and have the required security level are encouraged to contact Mike Stallard, NWC ext. 3900, no later than noon on June 16.

The meeting begins at 7 p.m., with the serving of refreshments, and a call to order at 7:15 by Stallard, president of the Chapter. It is expected to last until 9 p.m.

## Smith gets 40-year pin

Clifford Smith, a model maker foreman in the NAF model shop branch, is now proudly wearing a 40-year Federal length of service pin. The pin was presented by Capt. K.A. Dickerson, Center Commander, in a ceremony held in the Commander's office.

Smith, born in Houma, Louisiana, graduated from Jefferson High School in Los Angeles and attended both Compton Junior College and Bakersfield College.

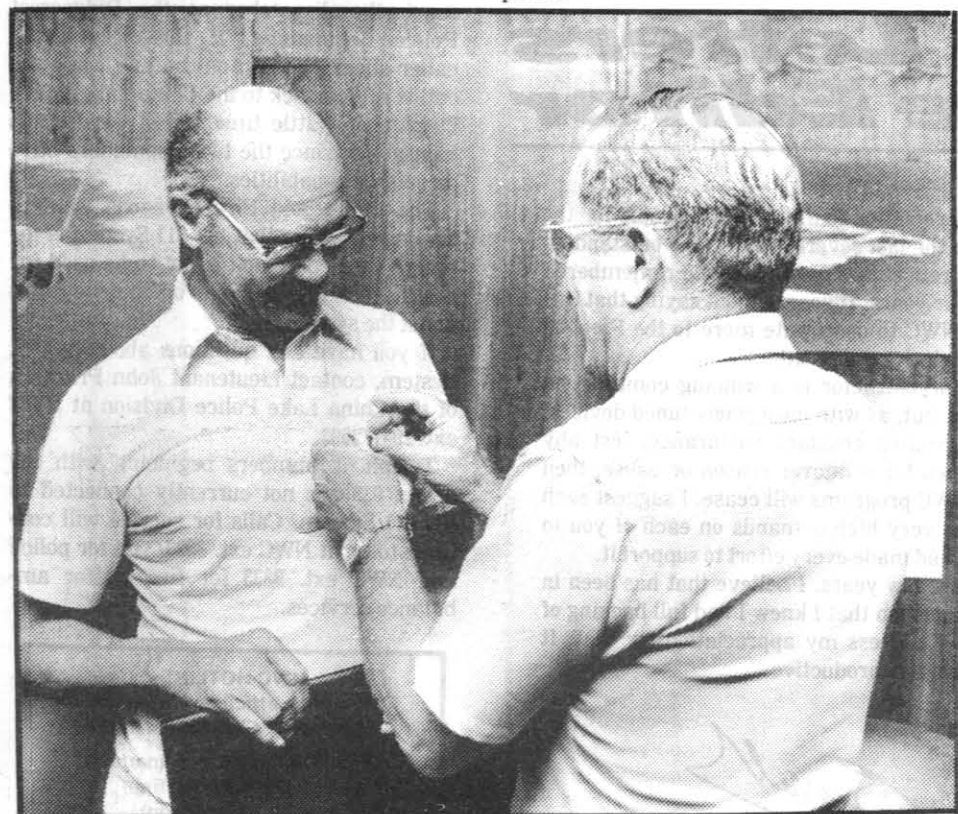
His federal service began in the Army Air Corps, where he took machinist courses. His service in the Air Corps included overseas service in both Africa and Italy.

His Civil Service career began at the Naval Ordnance Test Station on October 12, 1948 when he was a janitorial laborer for the Public Works Department, Mechanical Trades Division. He next became a general helper in the Paint Shop before transferring

to the Machine Shop as a machinist helper. A promotion to inside machinist followed in 1953; at that time he manufactured parts on lathes and manufactured replacement parts for broken motors and milling parts.

After a promotion to apprentice machinist (inside), he worked in the Aviation Ordnance Department and then became a model maker (machining). His next promotion was to leadingman, model maker (machinery), in AOD. When Smith moved to the Electronic Systems Department, he became a foreman model maker (machinery). While holding that rank, he moved to several branches and departments before moving to the NAF Model Shop Branch.

He has received letters of appreciation and commendation for performance and special achievements as well as three Sustained Superior Performance Awards.



RARE AWARD — Capt. K.A. Dickerson pins a 40-year federal length of service pin on Clifford Smith. — Photo by PHAN Bob Reynolds

## Clinic offers CHAMPUS assistance for personnel

Assistance for those who need to use CHAMPUS is provided by Lyn Wilson, Health Benefits Advisor in the Branch Medical Clinic at China Lake.

CHAMPUS (which stands for Civilian Health and Medical Program of the Uniformed Services) serves dependents of active duty military as well as retirees and their dependents.

Mrs. Wilson points out that CHAMPUS is a cost-share program. She can give advice to those eligible about their share of costs and what their deductibles will be.

"As the wife of a retired Navy man," she says, "I can appreciate how people using

CHAMPUS feel and what their needs are."

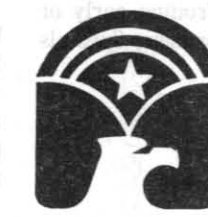
She adds that she is happy to present a slide show about CHAMPUS to any groups that wish to know about the benefits, as well as talking with individuals to help maximize their benefits.

"There are lots of changes that have come about in CHAMPUS," she adds, "and, while I don't file claims for people, perhaps I can help them with any problems that arise or with difficulties that they may experience with claims." She says also that

she prefers to talk with people before difficulties arise, because it may be possible to avoid any troubles by knowing what CHAMPUS will cover and what it won't.

"Please feel free to call me any time between 7:30 a.m. and 4:30 p.m. daily," Mrs. Wilson says, noting that she's also got "an open door policy," so it's not necessary to make an appointment to come in to see her.

Her telephone number is 939-2911, ext. 245, and she can be found in the northwest wing of the Branch Medical Clinic building on Blandy Avenue opposite Schoeffel Field.



### Military News

## Right medals only warns DOD official

It's great to have a chest full of awards and decorations recognizing your military achievements. But if you're not entitled to wear those ribbons, the only recognition they're likely to get you will be in the form of a military separation, court-martials, Article 15 or harsh reprimand.

The Defense Department's insistence that awards and decorations be worn only by those who have earned them, explained Maj. Rex Fuller, DOD deputy director for legislative and legal policy, "is to ensure that those awards and decorations obtainable only by the most extraordinary sacrifice or achievement are recognized for the sacrifice or achievement they represent."

Fuller said failure to enforce standards for their wear would cheapen the significance of military awards and decorations.

The fresh recruit whose chest boasts rows of unearned awards and decorations is usually quickly found out, stripped of the incriminating awards and counseled or otherwise disciplined.

But it's the more senior service members who wear awards and decorations they're not entitled to who get into the most hot water.

This was the case of a staff sergeant at a Marine Corps air station. Although he had fired only as a marksman on his weapons qualification test, he wore a second award of the expert weapons badge.

During his summary courts-martial proceedings, the Marine told the court he thought he had earned the badge, even though his record book contained no documentation. He was reduced one grade and forfeited \$500 in pay, a sentence he is appealing.



RESEARCHING REGULATIONS — Lyn Wilson, Health Benefits Advisor at the Branch Medical Clinic, checks regulations dealing with CHAMPUS as she endeavors to help a military dependent in making a claim for the cost-share program. — Photo by PHAN Bob Reynolds

## Navy award presented to EOD CPO

work he was honored for last week.

The commendation, signed by RAdm. B.R. Boland, Commander, Naval Base, San Diego, cites Chief Fahrenhorst for "professional achievement in the superior performance of his duties."

Then Petty Officer Fahrenhorst led teams of previously untrained sweep personnel through steep, rugged terrain during the clearance of ordnance from a former

training area in the San Diego area.

"Working tirelessly in hot and humid conditions, he trained his personnel and thoroughly swept the areas, while assuring the highest safety standards. Due to the superb efforts of Chief Fahrenhorst 648 acres were cleared and 417 ordnance items were removed without incident" during the extensive cleanup efforts in the San Diego area.

## Better nutrition stressed

Once, the military's attitude toward food was to "get it down and get out." But no longer. If an army or any other military service is going to travel on its stomach, that stomach had better be fueled with nutrients, not weighed down with excess fat and "empty calories" from concentrated sugars or bloated by water retention brought on by excess salt.

A recently issued DOD health promotion directive (1010.10; 11 March 1986) is probably best known as the "Defense Department's anti-smoking directive." But it is just as concerned with other aspects of the healthy lifestyle — such as nutrition and exercise.

Dr. William Mayer, assistant secretary

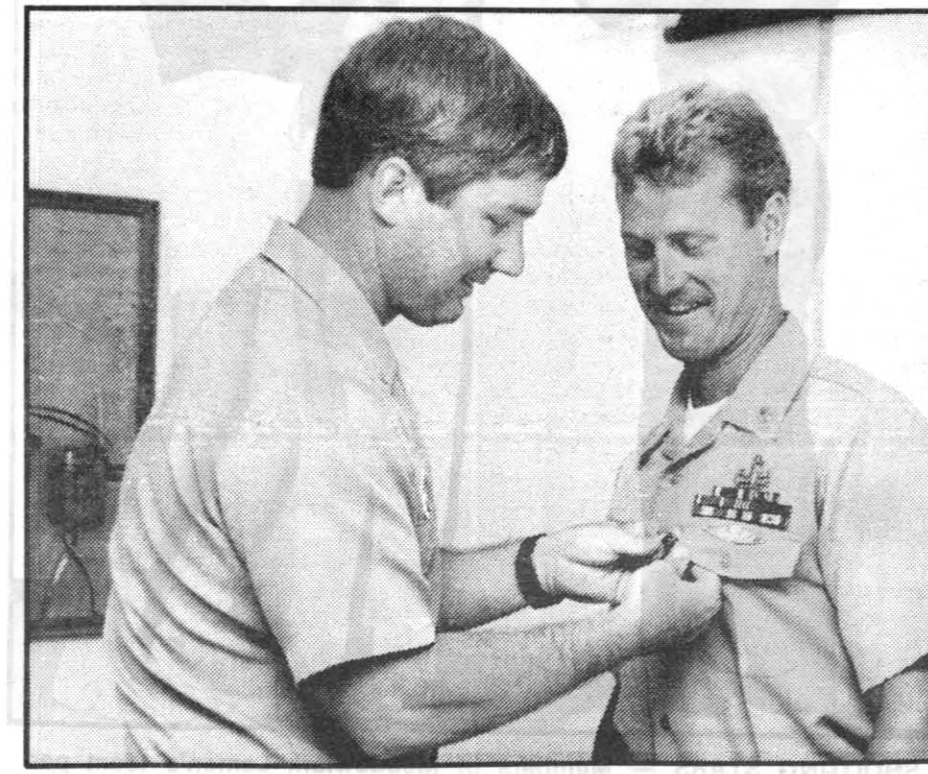
### Clinic schedule

To reduce patient waiting time and to assure that adequate staffing is available, the Branch Medical Clinic has established the following schedule for pediatric immunizations effective on June 16: Tuesdays from 2:30 to 4 p.m. and Thursdays from 9:30 to 11 a.m.

of defense (health affairs), noted, "We have the healthiest men and women of any armed force on earth. This directive is intended to make them even healthier. We don't try to force changes on men and women — you cannot alter human behavior. But we must continually impress upon our people the importance of choosing a healthy lifestyle and maintaining healthy habits if we are to maintain the high state of readiness required to do our mission."

The directive makes formal an already existing trend toward providing more nutritious meals in military dining facilities. More than two years ago, the joint service Armed Forces Recipe Service began developing recipes that would help trim waistlines and unclog arteries. Now, these recipes are being used, and meals with reduced amounts of fat, salt and calories are available in military dining halls wherever feasible.

Vending machines and snack concessions are expected to offer nutritious alternatives to the usual candy and soda pop — such as fresh fruit, fruit juices and whole-grain products.



ACHIEVEMENT MEDAL — GMC Michael J. Fahrenhorst is presented the Navy Achievement by Lt. John Scott, EOD Officer-in-Charge.



# Personnel News & Notes

No. 65 / June 6, 1986

Naval Weapons Center, China Lake, California 93555 6001



## Burroughs Science Fair winners work at NWC

Mark Morrow and Celeste Beres, winners in the recent Burroughs High School Science Fair, are good examples on how the NWC Mentor Program is working.

Morrow, a student in the Work Study Program, and Beres, a student in the Mentor Program, work on scientific and technical tasks under the direction of David Schriener, an engineer in the Radar Technology Branch, Sensor Systems Division, Fuze and Sensors Department.

Under Schriener's supervision, Morrow and Beres have worked on a variety of projects designed to provide them with insight into the many aspects of engineering and project work. Currently, they are involved with a working model of a radar project Schriener developed. When completed, the radar device is expected to allow a blind person to "see" or detect moving things by pitches of sound transmitted into an earphone.

Using some of the technology from this project and some hardware donated by the Phillips Corp., Morrow, a senior, constructed a working radar project that won first prize in the science fair.

Beres, a junior, leans more toward the biological field and performed an experiment that concerned the effect of electrostatic fields on plant growth. Her efforts in this project won her one of the four second prizes in the science fair.

Students in the Work Study Program spend one to two hours a day working at NWC for school credit. Morrow has earned all A's, which he said, "Makes me very happy!"

While the details of the training in the Mentor Program is flexible, a typical program would be as follows: during the first semester of the junior year, students will spend four to six hours per week in unpaid work experience; this will increase during the second semester of that year. The summer between junior and senior years would be spent in full or part-time

employment at NWC.

During the senior year, students will work 10 hours per week and receive both pay and work experience credit for this time. On completing the program successfully, entrance into the Cooperative Training Program will be offered in the summer after high school graduation.

Originated in the Research Department, the Mentor Program is administered by the Equal Employment Opportunity Office. Spearheaded by Dr. Bob Schwartz of the Research Department and Lucy Lambert from the EEO, the Technical Mentor Work Experience Program began in the fall of 1985. According to Lambert, there are 12 scientists and engineers currently acting as mentors and the program is expected to expand to 19 mentors by September of this year.

While Burroughs is the only school presently participating in the Mentor Program, Lambert says Trona has three or four students interested for September and even a Christian School has notified her they want to be included when it is time to recruit students for the program.

While originally structured for minority, disadvantaged and female high school students, Lambert said anyone showing potential or who has interest in math or science are qualified to apply for the program.

Schwartz feels the basic advantage of this program is that "students who are not necessarily at the top of their class can have the advantage of learning about technology and to see how far they can grow with it." He further stated that this does not mean that they will turn the A student down, on the contrary, but it gives the B and C students a chance to expand also. He says currently, "We have a good mix in the program at all levels."

The basic advantage of the program to the base, according to Lambert, is the "fact that we are grooming our own scientists

and engineers." Another advantage she feels is, after they finish their schooling, they won't need the standard orientation because they will know the type of work being produced here, the different types of labs, etc. "Instead of recruiting at college levels, we are recruiting at high school level," she went on to say.

An additional advantage, according to Schwartz, is the fact the kids are gaining from the program, and if we made it possible, then we are being seen in a good light.

Morrow said Schriener helped him with his science project by discussing the basic theory of how it worked and the steps on how to tackle a project like that: planning, designing, testing, redesigning based on the tests, testing, etc.

According to Morrow, he has been interested in math and science "forever" and he became interested in computers when he was 12 or 13. "English is kind of the pits, though." The most important thing he feels he learned from the program and Schriener is "how to act with people — to communicate where they can understand you."

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Morrow said he would definitely recommend the Work Study or Mentor Program. He added, "It is a real advantage to have some kind of technical training before you go to college."

Beres says she has learned a lot about the engineering field and what people do here

on base. Because of the Mentor Program, she has become "more goal oriented." The most important thing she has learned under her mentor is "to talk your ideas over, you can learn a lot from others. You can solve problems by talking with others and exchanging ideas."

She feels her science project was a success because Schriener helped to develop her ideas and to polish off her experiment. He also was instrumental in lending her some equipment necessary for the success of her project.

Beres has only been interested in math and science for the past two years, receiving grades of B's and some C's. She entered physics at the beginning of her junior year. She said that "during the first semester of physics, I couldn't get the concepts." Since entering the Mentor Program, she brought her first semester C up to an A for the second semester. She is more involved with the concepts now and is better able to understand them due to the Mentor Program and Schriener.

"My kids come to me with a lot of questions," said Schriener. "It is a privilege showing them different aspects of their prospective careers." He feels the program provides the Center with very good public relations with the community and allows the labs to share in their power and influence.

Schriener says the program provides students with experience and shows them different aspects of a potential career and enables students to better decide if this is the type of career they want or if they would rather concentrate on another aspect of the job as a career. He says that it enables the students to talk to people "in the know" about the pit falls or advantages of certain careers.

He likes the idea of "putting seeds" in the minds of the students to advance in their field and to come back to China Lake after their education is done.

## Promotional Opportunities

Applications for positions listed in this column will be accepted from current, permanent NWC employees and from eligible employees of attached activities who are permanently assigned to NWC unless otherwise specified in the ad. Alternative recruitment sources may also be used in filling these positions; vacancies are subject to restrictions imposed by the DOD Priority Placement Program. Applicants must meet all legal and regulatory requirements including minimum qualification requirements by the closing date. Applicants will be evaluated on the basis of experience, education, training, performance ratings and awards as indicated in the SF-171 along with any tests, medical examinations, performance evaluations, supplemental qualification statements and/or interview that may be necessary. Career ladder promotions are subject to satisfactory performance and cannot be guaranteed. **APPLICATION PROCEDURES:** Candidates must submit a current SF-171, along with a supplemental qualifications statement (if required), and should submit a copy of their latest Annual Performance Evaluation if relevant to the vacancy. If a supplemental statement is not required, candidates are encouraged to submit additional information which addresses the specific Knowledge/Skills/ Abilities (KSAs) cited in the ad. Write the position title/series/level and announcement number of the SF-171 and all attachments. Be sure that your forms are complete and accurate since you cannot be rated on missing data nor will you be contacted for additional information. Be certain the SF-171 and supplement are dated and have original signatures in ink.

All applications will be retained in the vacancy announcement file; they will not be returned or filed in official personnel folders. Applications and supplements are accepted at the Reception Desk, Room 100, Personnel Department, 505 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. 34-012, Photographer (Scientific and Technical), DT-1061-1, Code 3452** — Duties include photographing scientific and technical materials (still and motion pictures). Incumbent must process a variety of films in color and black and white. Must qualify for airborne photography in high performance jets and helicopters using a variety of still and motion picture cameras. Selectee must pass a physiological test, water safety training and flight physical. **Job Relevant Criteria:** ability to properly compose, expose and process black and white and color films under adverse conditions; must be familiar with standard still and motion picture cameras and accessories. Promotion potential to DT-3.

**No. 35-043, Electronics Technicians, DT-856-1/2/3, Code 3553 (three vacancies)** — Incumbents are responsible, as part of a radar crew, for the maintenance and operation of a threat simulation radar system. Work schedule is "First Forty" hours. **Knowledge:** digital and analog electronic circuits; microwave and radar circuits. **Abilities:** troubleshoot and repair digital and analog electronic circuits; work well in a group. Promotion potential DT-3.

**No. 35-044, Mail/File Clerk/Assistant, GS-305-4/5/6, Code 3556** — Incumbent is responsible for documentation control of classified documents, receiving, shipping and inventory of documents. Responsible for data input and retrieval of documents in IBM PC computer. Work schedule is the "First Forty" hours. **Knowledge:** basic understanding of documentation control and custody techniques. **Abilities:** effectively communicate orally; effectively communicate in writing. Secret clearance is required. Promotion potential GS-6.

**No. 39-013, Supervisory Interdisciplinary General/Electronics Engineer/Physicist, DP-801/855/1310-3/4, Code 3951** — This position is the head of the Electronics Development Branch. The branch is responsible for Walleye, SLEP, SLAM, Maverick and Advanced Data Links. The incumbent will provide technical supervision and will conceive, organize, plan and guide investigations, which will result in inventions, new and improved concepts, designs, systems or techniques. Responsible for theoretical and experimental studies, which requires a thorough understanding of the technical field. **KSAs:** Ability to communicate well both orally and in writing and skill in presentation of technical material. **Knowledge:** of strike weapons systems, electro optics, video tracking, RF data links and aircraft interfaces. Willingness to support NWC EEO policies and goals. Promotion potential DP-4.

**No. 39-018, Clerk (Typing), GS-303-4/5, Code 3907** — This position is located in the Cruise Missile Program Office, Weapons Department. The incumbent performs clerical duties for the Cruise Missile Program Staff. Duties include typing of letters, memorandums, travel orders, travel itineraries, transmittals, purchase orders, etc.; receiving and directing visitors and incoming telephone calls; preparation of time cards; and arranging travel. **Job Relevant Criteria:** Ability to perform receptionist and telephone duties; ability to review, control, screen and distribute incoming mail; ability to compose correspondence and/or prepare nontechnical reports; knowledge of filing systems and files management; ability to plan and coordinate travel arrangements; ability to maintain and coordinate supervisor's calendar and to arrange conferences.

**No. 39-031, Engineering Technician, DT-802-2/3, Code 3957** — Assists in setup, maintenance and operation of RAM

guidance section test station. Provides operation and maintenance support for mechanical portions of AIM/RIM-7M test set and radome test facility. Duties include test and troubleshooting of mechanical/electrical subsystems, system interfaces and system integration. Work is accomplished from drawings, sketches and specs under guidance of test engineers. **Job Relevant Criteria:** Knowledge and experience in use of basic machine tools (lath, drill press, milling machine, etc.); familiarity with high precision microwave component fabrication techniques, skill in mechanical design and processes. Ability to communicate well and work effectively as part of a team.

**No. 62-103, Machinist, WG-3414-10, Code 6222 (two positions)** — These positions are located in the Engineering Section of the Track Operations Branch (SNORT), Range Operations Division, Range Department. The incumbents are required to perform the duties of a Machinist WG-10, which include fitting, assembling, installing, testing and modifying complete structural and mechanical prototypes of experimental and developmental models of track test vehicles, camera components, electrical and electronic components, ordnance test items and other related models or devices required in the track testing field. **Elements:** Abilities: to set up and operate tools and attachments; to do the work of the position without more than normal supervision. **Knowledge:** of machinist trade theory and technical practices; shop drawings, layout work and measuring devices; handtools and fitting. Supplemental required. Promotion potential WG-10.

**No. 25-018, Clerk Typist, GS-322-4, Code 253** — Incumbent is responsible for providing clerical support in the form of typing, filing, compiling data, maintaining logs and performing follow-up action on a wide variety of items. Position requires frequent personal and telephone contact with individuals at all levels of Navy. **Elements:** Ability to work well under pressure and adjust easily to organizational, program and procedural changes; and ability to work independently; ability to use and apply a variety of written manuals and instructions. Promotion potential to Claims Examiner, GS-2135-5. Previous applicants need not apply.

**No. 26-032, Maintenance Mechanic Leader, WL-4749-10, Code 26422** — This position is temporary not to exceed 6 months, may be made permanent. Supplement required. The incumbent will work directly with and lead 10 to 20 Boiler Plant Equipment Mechanics, A/C Mechanics and other skilled and unskilled crafts required to perform

a particular job. **Job Relevant Criteria:** Knowledge of trade; ability to act as a group leader; ability to interpret instructions; knowledge of pertinent materials; knowledge of tools and equipment.

**No. 26-033, Production Facilities Clerk, GS-303-4, Code 2611** — Responsible for reception, maintenance and control of all work requests generated on the Center and for initial data entry and maintenance work request information in the on-line computer system. Maintains work request Master File; assists in the training of employees in the use of a remote terminal and develops special reports for customers as requested. **Job Elements:** Ability to deal effectively with others; ability to operate data processing equipment sufficient to perform data entry. Promotion potential to GS-5.

**No. 31-144, Administrative Officer, DA-341-2, Code 3108** — Incumbent is responsible for project and overhead financial management and budget formulation; personnel and organizational management; manpower planning and projection; contract preparation and monitoring; equipment acquisition and control; space resource analysis; planning and coordination. **Knowledge:** of NWC administrative policies and procedures; NIF accounting systems. **Ability:** to communicate orally and ability to communicate in writing. Promotion potential to DA-3.

**No. 31-145, Clerk Typist, GS-322-4, Code 3194** — Incumbent is responsible for providing clerical support in the form of typing, filing and generating test reports and documentation on a computer terminal for the F/A-18 Project Branch. **Job Elements:** Ability to screen and distribute incoming mail; ability to use tact and diplomacy in dealing with on and off center personnel; ability to work well under pressure. Experience with computer word processors is desirable. Promotion potential GS-4.

**No. 35-042, Supervisory Interdisciplinary (Electronics/Engineering Technician/Equipment Specialist), DP-856/802/1670-3, Code 3556** — As branch head, the incumbent will direct a multi-disciplined staff which provides configuration management, documentation control, plant account control, supply warehouse, MC&I and Milcon projects. The work schedule is "First Forty" hours. **Knowledge:** range operations and maintenance; affirmative action principles including a willingness to implement EEO practices. **Abilities:** perform as a first-line supervisor; manage an organization; plan, organize and manage a technical program; influence and motivate others; communicate in writing. Required supplemental form is available in Room 100 of the Personnel Building.

## 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. 14-010R, Interdisciplinary (Electronics/Electrical Engineer/Physicist), DP-855/850/1310-2/3, Code 1422** — The prime function of this position as a Network Project Engineer will be to analyze user requirements, plan, design, specify and integrate baseband and broadband Local Area Networks (LAN) as part of the Integrated Communications System. The IEEE 802 series protocols will be used. Incumbent will also analyze technology trends for LAN systems as it relates to existing and planned corporate NWC ne-

works. Extensive training will be provided for specialized network design skills. Promotion potential DP-3. To apply, submit an updated SF-171 to Gordon Doyel (Code 1422) NWC ext. 3498.

**No. 35-040R, Interdisciplinary (Computer Scientist/Electronics/General Engineer/Physicist/Mathematician), DP-1550/855/801/1310/1520-1/2/3, Code 3515** — Incumbent will participate as a software engineer on the HARM Missile Computer Operational Flight Program (OFFP). Duties include analysis, design and implementation of real

time missile software and software tools, simulation testing, tracking of software discrepancy reports, verification and validation of the missile OFP. Experience with assembly language, a high order language, VAX/VMS, structured analysis and design techniques and software engineering principals are desired. Promotion potential DP-3, however it is not guaranteed. To apply for this position, submit an updated SF-171 to William Stratton (Code 3515) NWC ext. 2951.

No. 35-041R, Interdisciplinary (General/Electronics/Mechanical/Aerospace Engineer/Physicist/Mathematician), DP-801/855/830/861/1310/1520-3, Code 3507 — Incumbent will be the Test and

Evaluation Manager for the HARM Low Cost Seeker (LCS) Program. Incumbent will be responsible to the Program Manager for the planning, coordination, management and execution of all aspects of HARM LCS DT&E and OT&E activities. Unique management authority of HARM LCS Program Office offers significant responsibilities and authority to incumbent. This high-visibility program offers good opportunity to work directly with OPTEV-FOR, AFOTEC and others in the development community. Previous experience with weapon system level test and evaluation during full-scale engineering development is desirable. To apply, submit an updated SF-171 to Tex Hoppus (Code 3507) NWC ext. 1357.

## Secretarial opportunities

This column is used to announce secretarial positions for which the duties and job relevant criteria are generally similar. Secretaries serve as the principal clerical and administrative support in the designated organization by coordinating and carrying out such activities. Secretaries perform numerous tasks which may be dissimilar. Positions at lower grades consist primarily of clerical and procedural duties and, as positions increase in grades, administrative functions become predominant. At the higher levels, secretaries apply a considerable knowledge of the organization, its objectives and lines of communication. Depending on grade level, typical secretarial 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 1/2/3/4/5/8/9; and Department 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. 31-143, Secretary (Typing), GS-318-4/5, Code 3141 — Provides secretarial and administrative support to the Data Analysis Branch. Knowledge of the Xerox 630 Memorywriter and VAX/VMS commands desirable. Promotional potential to GS-5.

No. 32-205, Secretary (Typing), GS-318-4/5, Code 3268 — Provides secretarial support to Weapons Systems Branch "B". Knowledge and working skill on a Xerox 640 desirable. Promotion potential to GS-5.

No. 32-201, Secretary (Typing), GS-318-4/5, Code 3242 — Incumbent provides secretarial support to the Thermal/Structures Branch located in the M/L compound. Promotion potential to GS-5.

No. 32-211, Secretary (Typing), GS-318-4/5, Code 3273B — Provides secretarial support to the Vertical Launch Program Office. Promotion potential to GS-5.

No. 33-016, Secretary (Typing), GS-318-4/5, Code 3352 — Provides secretarial and administrative support to the Air-Launched Weapons Fuze Branch of the Fuze and Sensors Department. Knowledge and working skill on Xerox 640 desirable. Promotion potential to GS-5.

No. 33-017, Secretary (Typing), GS-318-4/5, Code 3355 — Provides secretarial and

administrative support to the Free Fall Weapons Fuze Branch of the Fuze and Sensors Department. Knowledge and working skill on IBM Displaywriter desirable. Promotion potential to GS-5.

No. 33-019, Secretary (Typing), GS-318-4/5, Code 3381 — This position is in the Analysis Branch of the Survivability and Lethality Division. Provides secretarial and administrative support to the Contracting Officer's Technical Representative for a delivery order contract within the branch. Experience with IBM Displaywriter desired but not required. Part-time applicants acceptable. Promotion potential to GS-5.

No. 35-026, Secretary (Typing), GS-318-4/5, Code 3522 — Provides secretarial support to the Advanced Technology Branch. Knowledge of Xerox 860 desirable. Promotion potential to GS-5, however it is not guaranteed.

No. 39-029, Secretary (Typing), GS-318-4/5, Code 3925 — Provides secretarial support to the RPV Technology Branch. Knowledge and working skill on IBM Displaywriter desirable. Promotion potential to GS-5.

## Recent Separations

Code	Name	Title
26025	Diaz, Ralph G.	Tile Plate Setter
26025	Entjer, Karen L.	Secretary (Typing)
3191	Haines, Thomas J.	Physicist
3242	Flores, Richard P.	Mechanical Engr.
3267	Roy, Edward M.	Physical Science Tech.
3268	Erickson, Warren M.	General Engr.
3452	Fettkether, William P.	Photographer (Sci./Tech.)
3513	Nelson, Robert F., Jr.	Electronics Engr.
3553	McArtor, Stephen C.	Electronics Tech.
3556	Mathias, Delbert W.	Electronics Tech. Supvy.
36088	Lowe, Thomas M.	Engrg. Aid
3664	Yarbrough, Claud J.J.	Logistics Mgt. Spec.
3681	McIntosh, Charles J.	Qual. Assur. Spec. (Elec.)
3858	Pearl, Duane M.	Physical Science Tech.
3892	Rapoport, David	Mathematician
3984	Jacobson, Michael D.	Aerospace Engr.
62321	Bennett, William W.	Electrical Engr.
6202	Lyons, Eleanore L.	Secretary (Typing)
6421	Cole, Billy J.	Engrg. Tech.

## Non-appropriated Funds Arrivals

2226 Featherston, Kevin  
2226 Gunther, Jennifer  
2212 Underwood, Thomas  
2227 Alloway, Dana  
2222 Nelsen, Kari  
2226 Gradt, Kevin  
2225 Connell, Lara



### Personnel Development Opportunity

#### BASIC NAVAL CORRESPONDENCE

12 June, Thursday and 10 July, Thursday, 0800-1600, Training Center. By: Odessa Newman.

Course Objective: To provide a good review for people who type naval correspondence.

Scope: Policies and procedures for typing naval letters and memorandums and a highlight of Chapter One of the Department of the Navy's Correspondence Manual. If you have a Correspondence Manual, please bring it with you.

Deadline 26 June.

#### UPCOMING\* VAX/VMS CLASSES

\*Course content also applies to MICROVAX users.

#### VAX/VMS SYSTEM MANAGEMENT

11-15 August, 0800-1600, Training Center. By: Staff of Digital Equipment Corp.

Prerequisite: VAX/VMS Utilities and Commands and VAX Concepts.

Intended Audience: Operators, system managers, and anyone who wants to perform system management tasks.

Scope: You should learn to manage system users by maintaining user authorization files, manage system resources with DCL commands and command procedures, back up and restore files and volumes, respond to user requests, install maintenance updates and optional software on VMS, establish security measures on the system and monitor security-related actions by users, and monitor system performance and behavior problems. Topics include understanding the user environment, managing system users, managing queries, managing disks and tape volumes, customizing the system, starting and shutting down the system, installing and updating the system, managing system integrity, introducing VAXclusters, and monitoring performance.

Deadline: 25 July.

#### VAX/VMS SECURITY FEATURES

28-30 July, 0800-1600, Training Center. By: Staff of Digital Equipment Corp.

Prerequisite: VAX System Management.

Intended Audience: System managers, security analysts, project managers, and programmers.

Scope: Describes the methods and structures used to implement the enhanced security features of VMS V4.0 or higher. These methods and structures include file protection features, VMS privileges, the system rights data base, process-rights lists, access-control lists, security auditing, data-encryption methods, and log-in controls. Topics include the security threat, operating-system penetrations, indirect attacks, types of security controls, security basics, reference-monitor model, log-in controls, log-in restrictions, break-in detection, passwords, preventing disk scavenging, file-and object-protection methods, UIC-based protection system, security-implementation methods, security auditing, network security, VAXcluster security, and data-encryption facilities.

Deadline: 11 July.

#### VAXCLUSTER SYSTEM MANAGEMENT

25-27 August, 0800-1600, Training Center. By: Staff of Digital Equipment Corp.

Prerequisite: VAX/VMS Utilities and Commands and some experience as a system manager.

Intended Audience: System managers and operators who function in roles such as shift manager.

Scope: You should learn to plan and coordinate the formation of a VAXcluster; isolate a problem to the node (option) level; deconfigure and reconfigure nodes; bring up healthy nodes when a problem node fails; manage user authorization files; set disk quotas

on any given volume; mount and access disk volumes; use a common disk; establish cluster-wide queues to share printer resources; monitor, balance, and list all available queues; and understand the LAT concept. Topics include VAXsim, VAX monitor utility, VAX show clusters utility, VAX error-log file analyzer, distributed lock manager, distributed file system, DECnet, Ethernet, HSC50, terminal servers, and mass-storage control protocol.

Deadline: 8 August.

#### MANAGING PERFORMANCE ON VAX/VMS

22-26 September, 0800-1600, Training Center. By: Staff of Digital Equipment Corp.

Intended Audience: DP installation managers, system-performance analysts, system analysts, and new product-development managers.

Scope: Reviews the basic concepts of system performance. Common performance bottlenecks are examined and recommendations made for improving VAX/VMS system performance in these areas. The class focuses on the various components of a VAX/VMS system that affect performance and what effects these components have and discusses some of the implications and trade-offs involved in using various programming techniques and practices. You should learn to maximize the return on a system investment and develop skills in managing the performance of a VAX/VMS system. Topics include an overview of VAX/VMS system-performance management; methodology for identifying, isolating, and resolving VAX/VMS performance problems; various tools and methods of performance, including monitor and accounting tools, system dump analyzer, and methods for building new tools; and methodology for integrating performance management into an overall system-management strategy.

Deadline: 5 September.

#### VAX DATATRIEVE FOR THE COMPUTER PROFESSIONAL

4-7 August, 0800-1600, Training Center. By: Staff of Digital Equipment Corp.

Intended Audience: Programmers and other

computer software professionals who are unfamiliar with the basic elements of VAX Datatrieve, but who want to learn how to manipulate data files for ad hoc queries and for simple report writing.

Scope: You should learn to use VAX Datatrieve commands and statements to display, store, modify, and erase data; write and format simple reports with the VAX Datatrieve Report Writer; understand the basic function of the Common Data Dictionary, including dictionary paths, domains, and record definitions; and use the Application Design Tool to create record definitions. Topics include introduction to VAX information architecture, overview of VAX Datatrieve, organizing data for Datatrieve, applications design tool, displaying data, collections, altering data, and report writing.

Deadline: 14 July.

To enroll in these classes, submit NWC form 12410/73) via department channels to Code 094. (Code 094)

## Chico advisor on board

Dr. Orlando Madrigal of Cal-State University Chico will be on-Center Monday, June 30 to advise current and prospective students in the external degree programs offered by the school.

Cal-State University Chico has external

degree programs in computer science which lead to bachelor's and master's degrees. Those who wish to see Dr. Madrigal are asked to make an appointment by telephoning Kit Driscoll, NWC ext. 2648.

## Tuition support ended

Due to funding problems, the Center is unable to provide tuition support this summer for any courses taken at Cerro Coso Community College by NWC employees. Therefore, previously published articles regarding tuition support for Cerro Coso courses should be disregarded.

Information concerning possible tuition support at future Cerro Coso registrations will be provided at a later date in the "Rocketeer" and "NWC Announcements." NOTE: Technical co-op students are not affected by the above since the academic courses are part of their official training program.

### FEDERAL EMPLOYEES RETIREMENT SYSTEM

Congress has approved a new retirement system. The new system called the Federal Employees Retirement System (FERS), is a three-tiered plan which supplements Social Security benefits with a Civil Service annuity and an optional tax-deferred savings plan. The President is expected to sign the bill into law June 6 to become effective January 1, 1987. Below is a comparison of the new plan with existing Civil Service Retirement Systems (CSRS).

FEATURE	NEW SYSTEM	CURRENT CSRS
Employer cost	22.9% of payroll	25.0% of payroll
Required employee contribution	Social Security tax (now 7.15%) plus 1.3% in 1987, 0.94% in 1988-89 and 0.8% after 1989	7% of pay
Annuity (defined benefit)	High - 3 x 1% x years of service or 1.1% at age 62 with 20 years service	High 3 x 1.5% x first 5 years; x 1.75% x next 5; x 2% x service over 10 years
COLAs	None before age 62; at 62 full CPI if less than 2%, 2% if CPI is 2-3%, CPI minus 1% if inflation is higher than 3%	Full CPI
ELIGIBILITY FOR ANNUITY		
Unreduced	Age 55 & 30 years, rising gradually to age 57 for workers born from 1948-1970; age 60 & 20 years; age 62 & 5 years	Age 55 & 30 years; age 60 & 20 years; age 62 & 5 years
Reduced	Minimum retirement age (55-57) and 10 years service. Annuity reduced by 5% for each year under age 62	None
Involuntary	Same as CSRS	Age 50 & 20 years or any age & 25 years. 2% penalty for each year under 55
Deferred	Same as CSRS	For vested former employees (5 years service), full accrued benefits at 62
FEATURE		
Thrift plan (defined contribution)	Employees may contribute up to 10% of pay, with full government matching on first 3% and half matching on next 2%	None
Withdrawal	Same as CSRS	If vested (5 years' service), employee may withdraw own contributions, without interest, and forfeit future benefits.

The new retirement system covers all new federal employees hired after December 31, 1983.

There will be an open season to give employees covered under the present retirement system an opportunity to switch to the new retirement system. Credit in the current Civil Service Retirement System would stop with the switch, but the high-three years pay formula for figuring annuities would continue. All service will count toward years needed to be eligible for retirement, disability and vesting in both CSRS and the new plan.

Employees remaining in the present retirement system may contribute up to 5% of pay into the savings plan with no employer matching contribution.

More information will be published when it becomes available.