

## Services held to honor veterans . . .

(Continued from Page 1)

most recent conflict as well as those who fought in prior wars was the traditional ceremony held on Tuesday where First Sergeant Richard Zink, USMC, was the guest speaker.

First Sgt. Zink, who holds five purple hearts and a bronze star, praised the citizens of the community and of the Naval Weapons Center for their support of military personnel in the area.

He noted that this is the only nation whose policy it has been to fight for freedom of others, adding that "America has the biggest heart in the world."

Flying over the veterans and others gathered to honor those who have served the nation was not only Old Glory but also the black and white flag honoring the prisoners of war and those missing in action of Vietnam, Korea and World War II.

Ralph Schoen, Captain of VFW Ship 4084, concluded the ceremonies by stating that his group intends to fly this flag until the last prisoner has been freed, the last serviceman missing has been found or has been declared to be dead.



**REMEMBERING** — Capt. Harry Parade, USN (ret.), reminisces about his service off the coast of Vietnam as Chaplain C.R.

**Beede listens during a special memorial service at Desert Memorial Park cemetery Sunday.** — Photo by Mickey Strang

## Artists invited to enter show at Musum

All artists are invited to submit entries for the annual Open Art Show to be held at the Maturango Museum during the month of December.

All forms of painting, as well as pen-and-ink drawings, will be accepted. Each artist may submit only one framed entry no smaller than 9 by 12 inches and no larger than 30 inches in any direction, including the frame. Only 70 entries will be accepted; these are on a first-received basis and those accepted must be on hand through Dec. 30.

Entry forms, which must accompany the art work, can be obtained at the museum and at the Home Center in Ridgecrest. They are also available from members of the Desert Art League and at art classes at Cerro Coso Community College.

Entries must be hand-delivered to the museum office on Dec. 4 or 5 between 2:30 and 4:30 p.m. The entry fee is \$5; money collected will be used for gallery expenses.

Artists wishing to exhibit an item that is not for sale should mark the entry "NFS."

## Date corrected

This month's issue of the Recreational Services Department's Roadrunner incorrectly stated that the last ceramic firing date for any Christmas items at the Center's Craft/Hobby Shop was November 15. The correct date is December 15 — so there's still time to make those holiday gifts.



## Weather Report

	Max	Min	Peak Gust
Fri.	65	33	15 knots
Sat.	66	28	11 knots
Sun.	68	29	10 knots
Mon.	72	29	18 knots
Tues.	76	29	10 knots
Wed.	78	31	11 knots
Thurs.	79	30	18 knots

All measurements are made at Armatage Airfield.

## Community Events

Membership Night at the Commissioned Officers' Mess will be Friday, Nov. 21. Enjoy an Italian buffet, including a huge salad bar, and dance to the music of Ted Lemon. Reservations are required by 4 p.m., Nov. 19.

Enjoy the prime rib dinner special at the Chief Petty Officers' Mess tonight and then dance to the music of the "Fabulous Clowns." Dinner is served from 5:30 to 9 p.m., and the band will play from 8:30 p.m. until 12:30 a.m. for dancing or listening pleasure.

Thursday, Nov. 20, is the date for the next Mongolian Barbeque being held at the Chief Petty Officers' Mess. All authorized patrons and their guests are invited to attend this once-a-month special for only \$.45 an ounce. Hours will be from 5:30 to 8 p.m.

DJ for the disco being held at the Enlisted Mess on Wednesday, Nov. 19, is Eli Longo of Disc Werks. Authorized patrons and guests are invited to dance from 8 to 11:30 p.m. for only \$1 per person.

Airplane buffs are invited to attend an open house and air show at Meadows Field, Bakersfield's airport, on Sunday from 10 a.m. until 4 p.m. Static displays, booths and exhibits can entertain visitors until the air show starts at noon. Participants in the air show include the Army's "Golden Knights" parachute team, Col. Julie Clark flying in a T-34 aircraft and Wes Selvidge flying an S-1 Pitts biplane.

Special enticements include the possibility of winning either a trip for two to Europe, presented by American Airlines, or a trip for two to Hawaii, presented by United Airlines.

The air show is free, as is registration for the drawings.

Horology — the study of the construction of timepieces — will be the topic of an exhibition at the Sylvia Winslow Gallery of the Maturango Museum on Saturday and Sunday, Nov. 15 and 16.

Members of the High Desert Chapter No. 72 of the National Association of Watch and Clock Collectors will exhibit antique clocks and watches, and members will explain what makes horological items tick. They'll also answer questions about heirloom clocks and watches, and will conduct a workshop during which they offer to clean and repair clocks at nominal fees as a community service.

Holiday gift givers have the opportunity to purchase unusual gifts for all occasions Friday and Saturday, Nov. 14 and 15, from craftspeople whose wares will be displayed at the Community Room of the Desert Counseling Clinic. Hours both days are 10 a.m. to 6 p.m.

Those whose work will be for sale include Nancie Loscar, Ann Davis, Linda Parlet, Millie Gregory, Gale Wheeler, Michele Davis, Jan Connelly and Betty Southerland.

Hours at the Eastern California Museum in Independence have had to be cut because of reduced funding by Inyo County. New hours for this museum are Sunday, Monday, Thursday and Friday from noon to 4 p.m. and on Saturday from 10 a.m. to 4 p.m.

The museum, located two blocks west of Highway 395 in Independence, contains a fine collection of pioneer and Indian memorabilia and artifacts, lots of historical pictures of the whole area, a "pioneer village" of old and restored buildings representing an early town, antique wagons and farm machinery, among other exhibits. More than 120 books and pamphlets dealing with the general area are on sale in the museum's small gift shop.

## Health Dept. gives warning

Mexican style soft cheeses have apparently been sold door-to-door or from vehicles; this, according to Kern County Director of Public Health Dr. Leon Hebertson, is potentially hazardous to the health of those buying and eating such cheeses.

Soft cheese is a potentially hazardous food that requires proper manufacturing and controlled storage temperatures until the time eaten or such cheese can be a source of food poisoning of a severe and debilitating nature.

Dr. Hebertson urged the public not to buy any food products from door to door solicitors or others who do not have a valid Health Permit from the Kern County Health Department.

## Movies

FRI., SUN., MON. NOV. 14, 16, 17  
**"THE KARATE KID, PART II"**  
 Starring Ralph Macchio and Noriyuki "Pat" Morita (Martial Arts, rated PG, 115 min.)  
 SATURDAY NOV. 15  
**"THUMBELINA"**  
 (Animated, rated G, 63 min.)  
 WEDNESDAY NOV. 19  
**"FIRE WITH FIRE"**  
 Starring Virginia Cnig and Madson Sheffer (Romantic Comedy, rated PG-13, 104 min.)  
 FRIDAY NOV. 21  
**"RUTHLESS PEOPLE"**  
 Starring Danny DeVito and Bette Midler (Comedy, rated R, 95 min.)  
 Starting Time: Evening 7 pm

ICG 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. 40031

FROM \_\_\_\_\_

PLACE STAMP HERE \_\_\_\_\_

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

## China Lakers propel CFC donation total upward

China Lakers have now pledged nearly \$40,000 during the annual Combined Federal Campaign fund drive. As the drive heads into the final weeks, key personnel in departments throughout the Naval Weapons Center are urged to turn in completed pledge cards.

Thus far only six percent of the military and civilians working at China Lake have had completed pledge cards turned in. Last week was the best week of the campaign with more than \$24,000 being turned in.

Last year the generous giving at China Lake topped the \$200,000 mark for the first

time ever. Employees and military personnel are encouraged to dig deep and make a pledge to the cause.



1987 Combined Federal Campaign

CFC donations are fully tax deductible in 1987 for employees who itemize on their federal income tax return, noted Loretta King, NWC Assistant Public Affairs Of-

ficer, who, with Natalie Harrison, Community Liaison Officer, is chairing this annual drive.

Local organizations, ranging from the Salvation Army to the American Red Cross and from the China Lake Mountain Rescue Group to the Civil Air Patrol receive much of the money donated by China Lakers. The United Way of the Indian Wells Valley is the primary recipient of donations if the donor has not specified a particular organization to benefit from his or her pledge.

National Health Agencies, National Service Agencies and International Service

Agencies also receive a portion of monies donated by China Lakers.

Community groups that receive funds, either through the United Way or by donor designation, include Indian Wells Valley Search and Rescue, Maturango Museum, We Care of IWV, Volunteer Center of IWV, Homemaker Service of IWV, Desert Counseling Clinic's Tutor Services, Council of Substance Abuse Awareness and the Fire Mountain Foundation.

All China Lake military and civilian employees should have received a pledge card by now.



## Librarians discover how to cope with the peril

"Neither fire nor flood nor things that go bump in the night shall stay these librarians..."

Next week the NWC Technical Library will look back on more than 40 years of coping with fire, flood and other unusual threats to its collection without disruption of service to the Center's scientific and engineering staff.

In celebration of this fact and to familiarize Center employees with Tech Library services and facilities, the library will host an open house on Monday, beginning at 10 a.m. and will exhibit historical photographs and books all week.

The origins of today's Technical Library can be traced back almost as far as the

November 1944 founding of the Naval Ordnance Test Station (NWC's predecessor).

The world-class scientists from the California Institute of Technology who came to NOTS during the waning days of World War II insisted on access to the research materials they needed to maintain currency in their fields. Consequently, planning for a collection of technical documents began in early 1945.

In July 1945 a small library was established in the Station's two-story Officer-in-Charge-of-Construction building. The vault for this original library still stands as part of the facade of the old Maturango Museum, now quarters for TID's Exhibits Branch.

By March 1946 approximately 2,500 text and reference books and nearly 100 technical journals were available for the use of the burgeoning scientific and technical staff, and the library staff was receiving new books at a rate of 200 per month. Then disaster struck.

"A general alarm fire, worst calamity to hit the Naval Ordnance Test Station, swept through the two-story O-in-CC Building last Friday morning, completely destroying all but the east wing of the structure," announced the "NOTS Rocketeer" of March 12, 1946.

Among the contents destroyed was virtually the entire collection of the Technical Library. "Hundreds of dollars worth of new

technical books went up in flames, as well as three large new unabridged dictionaries and a late edition of the Britannica," the Rocketeer reported.

Displaying the zeal that still characterizes today's library staff, Leathia Kaufman, head of the Technical Library's Reports Group, was the last employee to leave the burning building. Mrs. Kaufman "managed to close and lock all but two of the dozen metal filing cabinets that contained valuable technical reports."

The library staff immediately set to work to replace the damaged volumes and by the following November a revitalized Technical Library was up and running in a nearby quonset hut.

Many scientific reference works purchased during that period are still in use today, and it is the unceasing development and use of the collection that began in 1946 that the Tech Library now celebrates. Today's collection, however, is much more complete — holdings include more than 25,000 monographs, 2,000 monographic serial titles, 750 active periodical subscriptions, 1,000 closed periodical holdings and approximately 200,000 technical reports.

With the 1948 opening of Michelson Laboratory, the primary collection of the Technical Library was moved to a series of rooms on the laboratory's second floor, where the collection remained until 1972, when increasing laboratory crowding

(Continued on Page 7)



**CARD CATALOG WILL SOON RETIRE** — Following a soon-to-be-outmoded procedure, Ann Rodgers (left) and Mary Garback of the Technical Library staff file cards documenting the library's technical reports collection. As the Tech Library celebrates its

over 40 years of service to the Center's technical community, an integrated online library system is on the way that will allow the Naval Weapons Center's Library collection to be managed and used via computer terminal. — Photo by PH2 Rick Moore

## Open house set at Tech Library

All Center personnel are invited to an open house at the Technical Library on Monday from 10 a.m. to 4:30 p.m. to see historical exhibits, watch demonstrations of online literature searching and take part in tours of the facility.

Cake, coffee and hot punch will be served.

## POWs, MIAs not forgotten on this Veterans' Day

Prisoners of war and those missing in action were the focus of two Veterans' Day services held in the community this week — a service at Desert Memorial Park cemetery on Sunday sponsored by the Vietnam Veterans of America Chapter 283 and the traditional ceremony held at Veterans of Foreign Wars' Ship 4084 on Tuesday at 11 a.m.

Capt. Harry Parade, USN (ret.), noted Sunday that "Some of the most proud time of my life was when I commanded a

squadron flying off carriers by the Vietnam coast in 1965 and 1966. It was a high point in my career — and gives this day special meaning."

He continued by saying that he had been a young sailor in the second World War, when being in uniform was the only place to be, but that by Korea, times had changed.

"You couldn't even tell there was a war except on the west coast of the United States. Otherwise, it was business as usual for the nation," he said.

By the time that the landings in Lebanon in 1958, he said, interest in the military was even less. He also was part of a squadron standing by at the Bay of Pigs in 1961, where Parade remembered that they waited one day but spent the next three rescuing survivors.

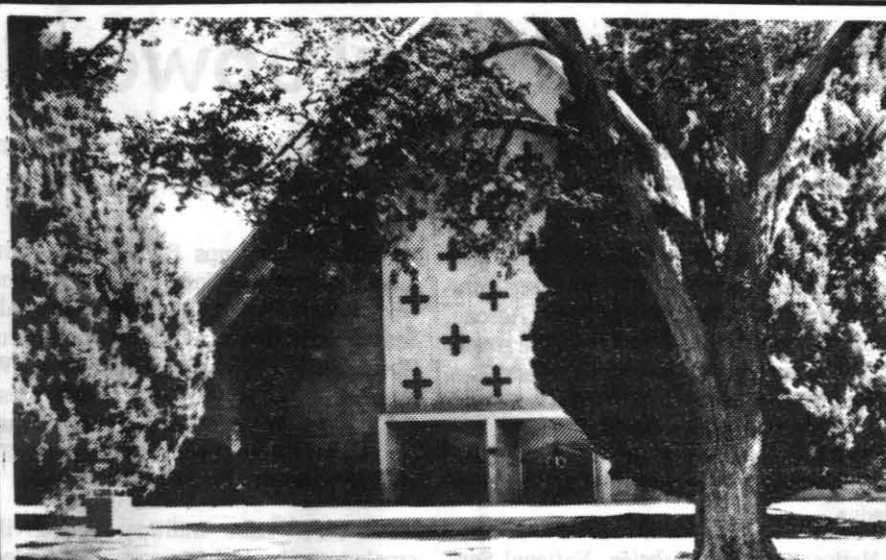
"Service in Vietnam was the most distinguished that occurred in modern times in American military history," he continued. "It was really service beyond self."

Parade concluded by advising those present to "Take heart and continue to support the nation. Service to this nation is the highest ambition one can have."

The ceremony then included ringing a memorial bell for the 359 veterans buried in the cemetery and for those who gave their lives or are missing today from the conflicts of World War I, World War II, Korea, Vietnam, Grenada and Beirut.

Also honoring the veterans of America's (Continued on Page 8)





## 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  
Chaplain C.R. Beede, Lt. jg. CHC USNR  
Hearing impaired equipment available. Nursery available.  
Phone NWC ext. 3506, 2773.

## Tree cutting forbidden in forest

Those who like to cut their own Christmas trees are going to have to use a Christmas tree farm this year, according to Jim Crates, Supervisor of the Sequoia Na-

tional Forest.

Personal Christmas tree cutting is prohibited in this area because of damage to plantations and the cost of administration.

## Thanksgiving turkey can cause problems

For many people, Thanksgiving is an Olympic cooking and eating event. Turkey or other fowl, two kinds of potatoes, rolls, salads and vegetables and often two or three pies are placed lovingly on the table. Your family and guests try mightily to transfer the contents of the groaning board to their groaning stomachs on the big day, but there are always leftovers.

Unless properly handled, those leftovers could be a cause of food poisoning.

All foods contain microorganisms. Dairy products and poultry, such as that Thanksgiving turkey, for example, contain harmless amounts of such bacteria as salmonella. These harmless amounts can quickly multiply into harmful amounts unless you keep cold foods cold (45°F) and hot foods hot (above 140°F).

Don't leave the cooked turkey on the table at room temperature longer than two hours on Thanksgiving for maximum safety, say the food safety experts. Even though the room may seem cool, it is still warm enough for bacteria to grow.

Those experts recommend that stuffing be removed from poultry soon after cooking and placed in a separate container. The reason: Bacteria thrive in high protein, high carbohydrate food combinations, said Jody Siegel of the U.S. Department of Agriculture's Meat and Poultry Hotline.

Furthermore, the warm, dark and moist environment inside the bird means that, once refrigerated, stuffing does not cool down as fast as optimum safety would require.

Cooked turkey in broth or gravy keeps for about two days in the refrigerator, sliced dry turkey up to four days. These guidelines are for optimum safety and taste, according to hotline staffers. Meat eaten past these deadlines isn't guaranteed to get you sick, but it increases the probability.

ability.

Maj. Jane Coffin, staff nutritionist with the Army Surgeon General's Office, suggests refrigerating meat whole or in large pieces and waiting until the last minute before slicing it. "The amount of exposed air surface is the key to food spoilage. Chicken salad will spoil faster than a chicken leg, hamburger spoils faster than roast beef. Refrigeration and freezing do not stop spoilage, they simply slow it down," said Coffin.

If you don't think you can't eat the turkey quickly, freeze it. Cooked dry turkey keeps a month in the freezer. Turkey in gravy keeps up to six months, because freezing dries foods out, and the moisture in the gravy helps the frozen turkey retain its texture.

Not only turkey, but all leftover foods, even green salads, should be treated with care. But generally, high protein foods — meat, eggs and dairy products — grow bacteria more quickly than other foods. Vegetables cooked in cream sauces and pies containing eggs, such as pumpkin pie, should be put in the refrigerator as promptly as the poultry.

What about the salad made with mayonnaise? Mayonnaise has long suffered an undeserved reputation for causing food poisoning, perhaps because it is often misused with chopped high protein foods. Actually, commercially prepared mayonnaise retards bacteria growth.

— By Evelyn D. Harris  
American Forces Information Service



## 'Always do your best,' advises Donna Pettit

"No matter how menial you may feel a job is," says Donna Pettit, Administrative Officer for the Safety and Security Department, "if you do your best in it, you'll be given the opportunity to do more and to better yourself."

She says that she had to take a career step backwards to come to work at China Lake as a clerk-typist because she had served as office manager at the Ridgecrest Community Hospital, as an accounting officer for First Federal Savings and as a data management clerk for CSC. She worked hard during the year that she spent as a clerk-typist in the Safety and Security Department office before she moved to Disbursing. Subsequently, the job of Administrative Officer for Code 24 was advertised and she feels that she got it because of the quality of her previous work in the department office.

"I love this job," she says, "because I can get involved in everything to do with the department and I work with a great group of people. I've had really supportive bosses who encouraged me to try my wings. And I've found Civil Service to be much more flexible than private industry in

letting a person develop his or her own work and grow with the job."

Mrs. Pettit, whose husband Ron is an electronics technician in the Electronic Warfare Department's Advanced Systems Development Branch, says that she was very reluctant to return to Ridgecrest when her father retired from the military and moved here in 1963 while she was a sophomore in high school.

After an early marriage that took her out of town for a year, she returned and says that she's really appreciated the place ever since. She does a lot of out-of-town driving, however, because each week she goes down to bring home her son, Brian, from the California School for the Deaf in Riverside.

Brian, now 19, is multiply handicapped — something that, she says, was initially very hard for her to accept.

"Ron, however, greatly helped me to be accepting," Mrs. Pettit notes. "What's important is to accept Brian's limitations and to appreciate him for what he can do."

She says that he's helped her to keep young in mind and that they've had a lot of fun because she enjoys amusement parks and places like that as much as Brian does

(he's 8 years old in spirit, she notes).

Mrs. Pettit enjoys evening and morning walks with Ron, gardening and says she's a "spurt" reader — she'll do a lot of reading for a period of time and then none at all for a while.

She and Ron also are planning a lot of outings in their newly-acquired motor home. "Ron likes to go fishing," she says,

"and I like my creature comforts. With the motorhome, we'll be able to go fishing together — and I can get in out of the weather."

She may also use some of that time to do some writing. "I enjoy the writing part of my job," Mrs. Pettit adds, "and I've always thought that eventually I might like to try my hand at other kinds of writing as well."



**CONCENTRATION** — Donna Pettit finds her work as administrative officer for the Safety and Security Department absorbing.

## Tech Library observes 40 years of usefulness . . .

(Continued from Page 1)

caused the library to relocate to its current Blandy Avenue location.

From the early days to now, library holdings have been widely dispersed. Some of these satellite locations were in Pasadena until 1955, the CLPP area in the late 1950s — and the basement of Michelson Laboratory until suddenly in August, 1984.

When the August 15, 1984 flood filled the Michelson Lab basement with mud, over 80,000 of the Technical Library's technical reports (including the archival holdings of all NOTS and NWC reports) were completely submerged. Thanks to the efforts of a crew of "muckers" of all pay levels and professions and to a year-long freeze-drying effort, much of these reports were salvaged.

The "things that go bump in the night?" Several times a year bats or birds get into

the library, setting off the security alarm system and causing the China Lake Police to roust members of the library management team out of bed. With installation next year of a security system that is more confined to the library's classified holdings, this part of the library staff's tribulations should go away.

A proud chapter in the Tech Library's history involves the Center's pioneering library automation efforts. A paper presented by Harley E. Tillitt to a 1954 IMB Computation Seminar is believed to be the first report on library-related computerization. Tillitt (who culminated his NWC career as associate head of the Systems Development Department) described "a method by means of which the 701 Calculator can perform certain library searching tasks."

Under Tillitt's guidance, the Tech

Library became the first library in the nation to initiate experiments in the mechanized listing and retrieval of its holdings.

This innovative system evolved in 1960 into the somewhat unpleasantly named LISARDS (library information search and retrieval data system) on the Center's IBM 709 computer, then into the current CLIP (computerized library information program), a system that contains records of all NWC-generated reports and that runs on the Univac 1183.

The library's computerized information services give reference staff access to literally hundreds of information data bases and allow highly sophisticated and specialized literature searches.

In early 1987 installation will begin of an integrated online library system that will automate every aspect of the library's

operations, including its card catalog and, within the next few years, will give members of the technical staff desktop access not just to the Technical Library's holdings but also to a worldwide network of shared information, represented by the specialized data bases to which the library subscribes.

Tillitt's pioneering article concludes, "The system is at present in the nature of an experiment and whether or not it will prove to be economical or practical remains to be seen." The Technical Library staff invites Center employees to bring their information needs to the library to discover first-hand just how economical and practical the concept has proven to be.

By Elizabeth Babcock  
Head, Library Division  
Technical Information Dept.



**LIBRARY AUTOMATION PIONEER** — Computer whiz Harley Tillitt looks over the IBM 701 Calculator, installed here in 1953. Through Tillitt's efforts, the Technical Library was the first in the nation to initiate experiments in the mechanized listing and retrieval of its holdings.

## Scorps capture fourth place

Despite what their coach called the "worst possible draw," the under-19 Scorpion soccer team split four encounters in the Bakersfield Turkey Shoot Tournament, good for the fourth place trophy.

Winning the first game, 4-1, to run their fall winning streak to 10 games, the Scorps saw their title hopes vanish when San Pedro Juventus, well rested after a forfeit win in the morning, nipped the Ridgecrest unit 2-1.

The Scorps battled their way to the consolation finals with a rugged 2-1 win

against Chatsworth United, then lost the battle for third place to Santa Clara United, 4-1.

Coach Karl Kauffman said they played everyone in the consolation title game, the final game of the fall Scorpion season.

The team ended the season with an 11-2 overall record, scoring 64 goals while allowing only 15 in 13 games. Many of the players will join the Burroughs High soccer team this month for a high school season, then return to Scorpion play in the spring.

## Basketball refs wanted

NWC's Youth Basketball League is in need of volunteer coaches and referees for the season scheduled to begin early next year.

Sponsored by the Youth Activities Branch of NWC's Recreational Services Department, the youth cage loop offers interested

adults a chance to work with youngsters as coaches or officials.

Anyone interested in this opportunity is asked to call the Information, Ticket and Tour Office at NWC ext. 2010 for additional information. Basketball practice time will be here soon.

## Little remains of crowded camp where thousands endured WW II

Only the stone gate huts, a few stone remains of administration buildings, foundation slabs, and the stark cenotaph in the isolated cemetery remain at Manzanar to show where 1,000 Japanese were interned during World War II.

Those driving along Highway 395 between Lone Pine and Bishop may wonder what the gate houses commemorate just south of the steel building housing Inyo County Public Works' equipment (a steel building erected by the internees as a recreation facility, though now serving as a storage area).

If they pull off the road, they can see the plaques telling of the internment of those of Japanese ancestry — even if they themselves and their parents, and, in some cases, grandparents had been born in this nation. They were interned because of the belief of many non-Japanese that these individuals created a threat to the security of the nation, although the relatives of many of the internees were fighting with American forces overseas. (The most decorated battalion in the Army during World War II was one composed of American-born Japanese.)

Manzanar was only one of several camps. Since it is the closest to the Los Angeles area, still the home of many Americans of Japanese ancestry, it is the site of memorial services the last Saturday of each April.

Those who wish to trudge over the one-square-mile site where the wooden barracks once housed men, women, and children must leave their cars at the main gate and walk throughout the area to search for the slabs showing where buildings once were built, or where the garden and reflecting pool had once been built by the hospital. The cemetery is located at the far northwest corner; only a few graves remain.

**LONELY SENTINELS** — Only the stone gate huts and the cenotaph remain intact at Manzanar, along with some stone foundations and a few other ruins, to show where 10,000 Japanese were interned.

— Photos and story by Mickey Strang



## NWC Rocketeer

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## Youth cage registration, tryouts scheduled here

Registration for the 1987 Youth Basketball Season at the Naval Weapons Center begins Monday, Nov. 17 and continues through Dec. 5 at the Information, Ticket and Tour Office. The office is open for registration from 9 a.m. to 5 p.m. Monday through Friday.

All participants must be enrolled in the Youth Sports Program before taking part in the cage league. In addition, a \$10 fee will be charged to cover the cost of a T-shirt, equipment and other expenses.

Players will also be required to take part in a skills evaluation meeting for their

respective age groups to ensure placement of players will give a balanced league. Youngsters who took part in the 1986 youth hoop season are not required to attend



## Sports

### OTHTC runs this Saturday

There is still time to register for tomorrow's Over-The-Hill Track Club half marathon and three-mile fun run, set for a 9 a.m. start at the NWC Gym.

There is a \$9 entry fee for OTHTC members and \$11 for non-members, both of

another evaluation session. Evaluations at the NWC Youth Center are scheduled to start Dec. 9. Seven and eight year olds can attend evaluations from 7 to 7:30 p.m. Dec. 9 or 9 to 9:30 a.m. Dec. 13. For nine and ten year olds, the sessions are set for 7:30 to 8 p.m. Dec. 9 and 9:30-10 a.m. Dec. 13.

Youngsters 11 to 12 years old will be at the youth center for evaluations on Dec. 11 from 7 to 7:30 p.m. while 13-17 year olds will attend the session from 7:30 to 8 p.m. Dec. 11.

For additional information on the 1987 Youth Basketball League, scheduled to run from Jan. 9 to March 13 next year, call the ITT Office at NWC ext. 2010 between 9 a.m. and 5 p.m. Monday through Friday.

### Tennis Club mixed doubles tournament on tap Nov. 22

Tennis enthusiasts will get another chance to show their skills when the China Lake Tennis Club hosts a mixed-doubles tournament at China Lake on Nov. 22. This is an additional tourney, not on the club's original schedule.

The one-day tournament will cost \$12 per team and there is a 6 p.m., Nov. 17, deadline for all entries.

A pizza party social will follow the tournament.

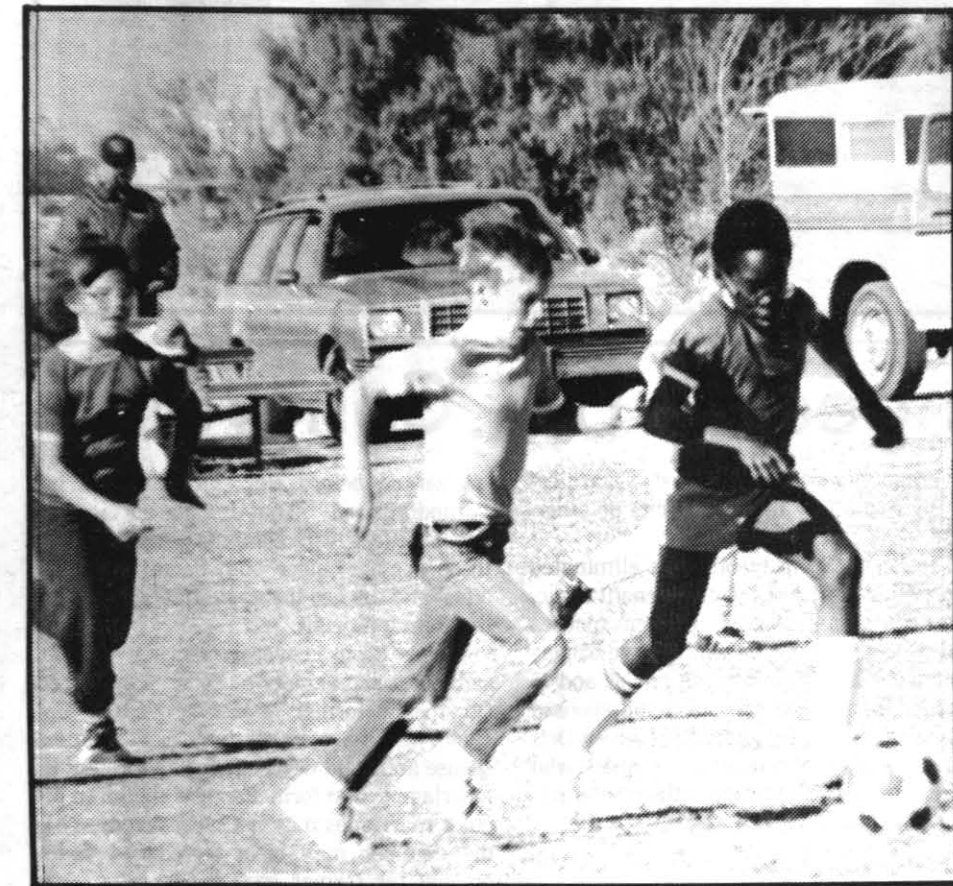
Entry forms can be obtained at the Naval Weapons Center Tennis Courts.

Last month's Gary Haugen Memorial Tennis Tournament, hosted by the China Lake Tennis Club, found Danny Webster and Michelle Havard taking the men's and women's open division singles titles. Run-

ners in those classes were Bret Halpin and Shanna Packard.

Other champions and their classes included men's "B," Richard Hargrove; women's "B," Karen Archeletta; men's "C," Mike Rindt; women's "C," Astrid Bloemen; and men's 40s, Steve Lyda.

Doubles winners included: Janet Reynolds and Nancy Webster in the women's open division. The mixed open title belonged to Janet Reynolds and Chuck Stolle. "B" doubles in the men's division went to Mark Robitaille and Darryl Whitaker. Women's "B" doubles went to Karen Archeletta and Ann Fry. The men's "C" double crown went to Todd and Troy Rowland, while mixed "B" honors went to Richard Hargrove and Sandy Lyda.



**SOCCER TIME** — Close contests are a regular occurrence when NWC Youth Soccer League teams get together every Saturday morning. The league is two weeks away from the close of the 1986 fall season.

## Two weeks remain on Center's soccer loop slate

With just two weeks left in the regular season for NWC Youth Soccer League play, teams are getting serious about the game. Close scores show the teams are well matched and no one squad dominates any of the three divisions.

### Division 1

#### Eagles 1, Coyotes 0

Shane Edwards scored for the Eagles late in the game to break a 0-0 tie for the win. Jesse Weston, Todd Downs and Joey Melton led the Eagles. The Coyotes were paced by Robert Hoffman, John DeGues and Brett Thomsen.

#### Chiefs 2, Express 1

Goals from Andy Gates and Brian Armstrong paced the Chiefs in their victory. Jeb Pershing, Cheryl Weigert and John Ames played well. Willie Raymond had the lone goal for the Express. The Express also got good play from Bobby Dawson, Chris Morrow and Pete Greedy.

#### Roadrunners 1, Fury 0

In a close game, the Roadrunners used a goal by Chris Oliva, assisted by Brandon Tullio, to nip the Fury. Adam Freund led the defense. Chrissy Self and Thomas Martin were top players for the Fury.

### Apollos 2, Sun 1

Tim Best had the only goal for the Sun, but they got much improved play from players including Brian Ellingson and Adam Branson in the loss. Bill Nelson's two goals did the trick for the Apollos. They also had fine play by Dan Dowling in goal and Josh Roberts on defense.

#### Bandits 1, Cobras 0

Andrew Dubois notched the lone goal of the game to put the Bandits over the top. Justin Martin, Ray Hyles and Evan Powell also keyed the win. Jeremy Ellingson, Gary Hanson and Mark Schramm were leading players for the Cobras.

### Division 2

#### Aztecs 4, Cosmos 0

Behind a three-goal effort by Renee Armstrong, the Aztecs were easy winners against the Cosmos. Tim Clark led defenders in the shut-out. The Cosmos coach said his team was flat as the Aztecs dominated.

#### Strikers 6, Blizzard 0

Tory Flores ripped the defense with four goals and Greg Gentry had two in the win. Travis Cadell, David Prince, Chris Greenum and James Jackson led the defense. Dan Caffrey, Reed Zamlan and

### Jeff Caruso led the Blizzard effort.

#### Timbers 0, Sting 0

Aaron Knecht and Robert Ricks led the defensive effort for the Timbers. Brandon Rivera was tops on offense. Paul LeBlanc in goal led the Sting in an excellent defensive game. Michael Grise, Michael Rodosevich and Joseph Sarenz also had outstanding efforts.

### Earthquakes 1, Drillers 1

Scoring on a penalty kick by Chris Thornberry, the Earthquakes tied the Drillers late in the first half. Kyle Gentry and Parker Flagg had fine games. The Drillers were paced by Derek Faulk and Greg Solem on defense and the goal scoring and Neil Covington.

### Sockers 4, Lancers 1

Avak and Vasken Haroutunian led Sockers to the win. Chris Didomenico added the other goal for the victors. James Swader and Jason Ghormely also played well. The Lancers got one goal from Daniel Hartley. Playing shorthanded, the Lancer's defense was led by James Powers and Richard Martin.

### Division 3

#### Kicks 4, Surf 1

Four players, Butch Boswell, Josh Benson, Scott Ross and Chad Shedlock did the scoring for the Kicks. Andy Lopez played a strong game. A solo penalty kick goal by Miles Ross averted a shutout for the Surf. Tim Foisy and Marcus Lopez also played well.

### Diplomats 5, Sounders 2

Two goals by Mike Ogren were not enough to overcome the team strength of the Diplomats. The Sounders had a strong team effort in the loss. Jonathan Rae ripped the defense with three goals while Sean Waldron and Sean Williams had the other scores.

### Whitecaps 2, Tornados 0

Ben Lee, assisted by Pat Rindt and David Fowler had one goal, while John Trahey scored the other on a penalty kick. Matt Frazier and Garrett Katzenstein were the leaders for the Tornados in the close contest.

### Roughnecks 2, Rogues 1

Jamie Scholl's goal snapped a 1-1 tie for the Roughnecks. Kenny Card had bagged the first goal to set up the victory celebration. The Rogues did not turn in a score sheet.

## Under-16 Scorpions win League Cup

Playing their best game of the year, the under-16 Scorpion soccer team won the Golden Empire Soccer League Cup Tournament, joining the under-19 Scorpions as league cup tourney winners in this, their first year, in the Bakersfield-based Golden Empire Soccer League.

The Scorpions defeated the Bakersfield Bears last Wednesday, 1-0, to take posses-

sion of the trophy for a year.

It was an exceptionally strong defensive performance that set the stage for the visitors from Ridgecrest to capture the title.

Fighting to a 0-0 tie until the last minute of the game, the Scorpions won when Matt Ziegler scored on a penalty kick into the lower left corner of the net for the win.

Taking part in the fifth annual Turkey Shoot Soccer Tournament, the under-16 Scorpions finished sixth in a 10-team field.

They played the Bakersfield Soccer Club to a 0-0 tie and the Bakersfield Sting to a 1-1 tie. Then they were soundly defeated by Cyclon United of Fresno to wrap up tourney action and their fall season.

## Women's team seeking athletes

With the start of the 1986-87 varsity basketball season not far off, the Naval Weapons Center's Women's Varsity basketball team is still seeking players.

Military personnel, current DOD employees and dependents are all eligible to compete for positions on the women's varsity at NWC.



## The Skipper Sez...

### QUESTION

All summer long I have not been able to get the weather recording which used to be on ext. 3435. I wonder if this number has been changed? If so, the operators aren't aware of it. I liked the weather reporting; I used to call in every once in a while and I miss it. Is there some reason why we no longer have the weather recording on 3435? Thanks.

### ANSWER

The 3435 Weather Phone is up and running! The long down time was due to the time required for delivery and installation of a replacement unit.

All China Lakers, including military personnel, civilian employees and their dependents, are invited to submit questions to this column. Such queries must be in good taste and pertain to matters of interest to a large segment of the China Lake community. Answers to these questions are directly from Capt. John Burr. 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.

## Cocaine major drug of abuse in the United States

According to the Naval Security and Investigative Command, cocaine use has recently increased in popularity to the point that it is the number one drug of abuse in the United States.

The National Institute on Drug Abuse reports that there are in excess of five million Americans using cocaine regularly and profit from the sale of cocaine has exceeded \$30 billion a year. The increased abuse of cocaine can be primarily attributed to the greater availability due to the better coca harvests and new accepted methods of ingestion.

The newest form of cocaine being abused is "crack." While the term crack is relatively new, the method of free-basing co-

caine has been around for years. The free-basing of cocaine simple means converting cocaine hydrochloride (powder) back to cocaine base, which is in a solid or rock form. This permits the user to smoke the cocaine, impossible when it is in a powder form.

Two simple and popular methods for free-basing cocaine have been developed, using simple kitchen ingredients and containers.

Both of these methods help filter out impurities, both adulterants (substances added to cocaine to give it deceptive quality) and cut (substances added to the cocaine to increase the quantity). Cocaine is converted through free-basing into a suitable

form that can be smoked in a glass pipe.

Crack is an extremely compulsive drug, much more so than regular cocaine. It has been reported that the rush from crack normally occurs within 10 seconds and is so intense and powerful that it keeps the user's (even the first time user's) thoughts focused on nothing but the next hit of crack.

The old method of snorting cocaine would take a user many months or years to develop addiction, where crack in some instances can take as little as a few days. Reportedly, the high from crack lasts three to 20 minutes and remains in the system from two to four days.

Crack is cocaine intensified and its effects, such as increased alertness, excitation, euphoria, dilated pupils, increased

pulse rate, are amplified. The assault on the body, brain and nervous system occurs in a swift and more profound fashion, which throws the entire cardiovascular system into turmoil. Dramatically increased blood pressure and heart rate can lead to coronary attacks and the intense stimulation of the brain may trigger convulsions.

The price of crack varies from location to location. In some areas, small pellets of crack will sell for as little as \$10, which makes it affordable for just about anyone interested in getting high. Many heroin addicts are even switching over to crack because of its tremendous and powerful rush and cheap price.

The morning session is open to all cleared NWC personnel and contractors. A follow-on session to discuss detailed cruise missile and SLAM program requirements will be held in the afternoon.

For more information, contact Ted Fincher at NWC ext. 3616.

## Services agree on data gathered

The Army, Navy, Air Force, Marine Corps and Coast Guard will soon be playing off the same sheet of music in collecting information regarding child and spouse abuse.

A new form designed to capture that information has been developed by family advocacy experts from all services so that the Military Family Resource Center can

compile more complete and accurate statistics. Family advocacy representatives are using it for every case of reported child or spouse abuse.

A central information registry will still be maintained by each service and only service-wide statistics will be forwarded to the Military Family Resource Center.

JanaLee Sponberg, Center program

analyst, said, "This is the first time we'll be able to compare case data across all the services. We should be able to come up with some very meaningful information — especially for spouse abuse data — on which we haven't had as much systematic information before because it doesn't have the same high 'disgust factor' as child abuse."

## Center gets AAA award

Capt. Paul Valovich, Chief Staff Officer, on Monday accepted the 1985 pedestrian safety award from Gera Thomas, manager of the Ridgecrest office of the Automobile Club of Southern California. The commendation was earned in the American Automobile Association's 47th annual Pedestrian Protection Program, coordinated locally by the Auto Club.

The AAA competition recognizes communities and military bases that have made major contributions toward lowering pedestrian fatality and injury rates as well as those conducting the most effective pedestrian safety programs.

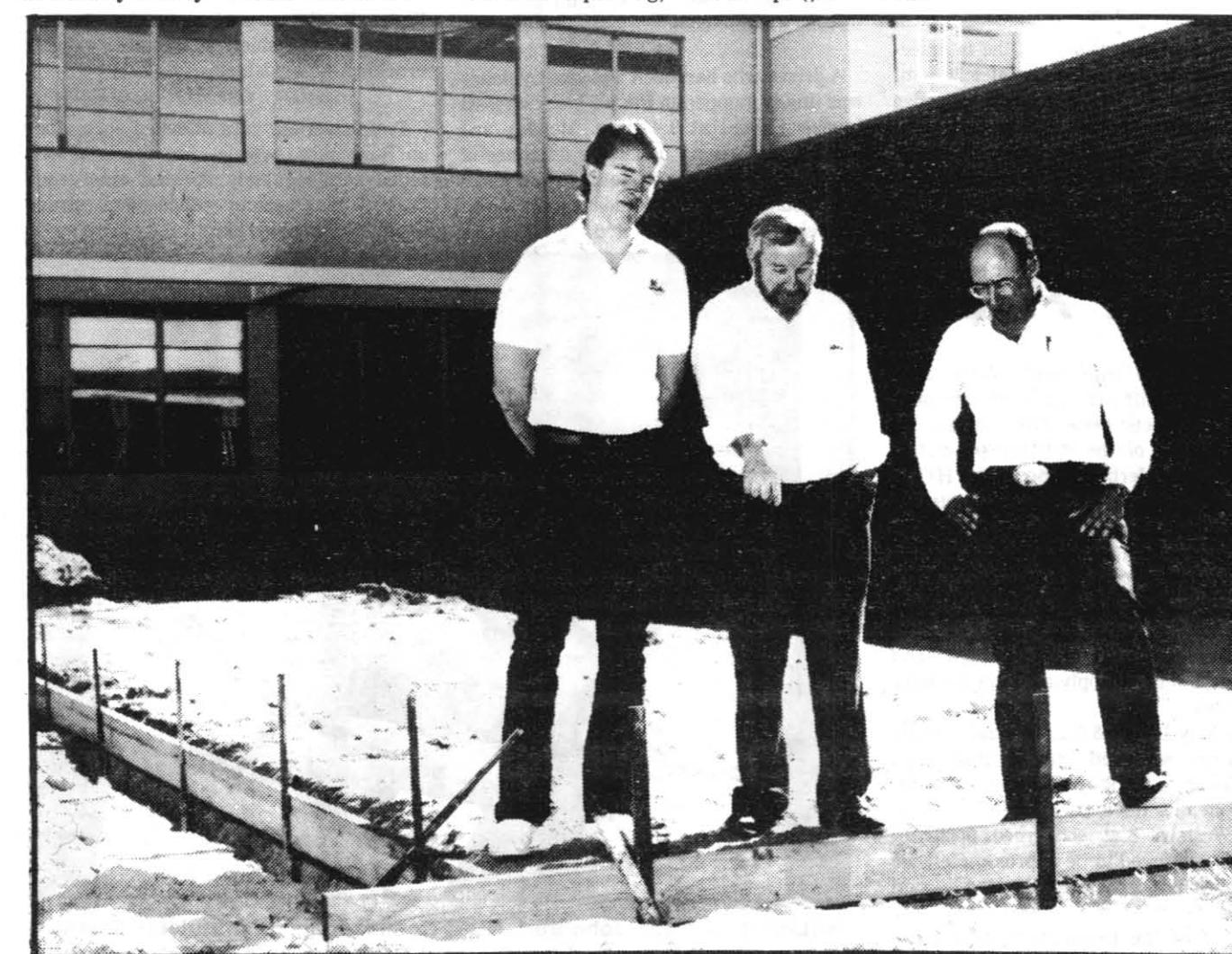
Mrs. Thomas said "China Lake Naval Weapons Center is the only California community in the 5,000-to 10,000 population range to win the Award of Excellence for 1985. Nationally, 808 cities in this population category competed in the program."

Elements evaluated include quality of school traffic safety program, safety program coordination, maintenance of accident records, safety legislation, enforcement, traffic engineering and active public information and education programs.

China Lake had no pedestrian fatalities in 1985, for the 29th consecutive year and no pedestrian injuries.

## Gate open

Center personnel are reminded the Richmond Road gate will be open Sunday through Thursday until 10 p.m. and Friday and Saturday until 11 p.m. from now until the end of December on a trial basis.



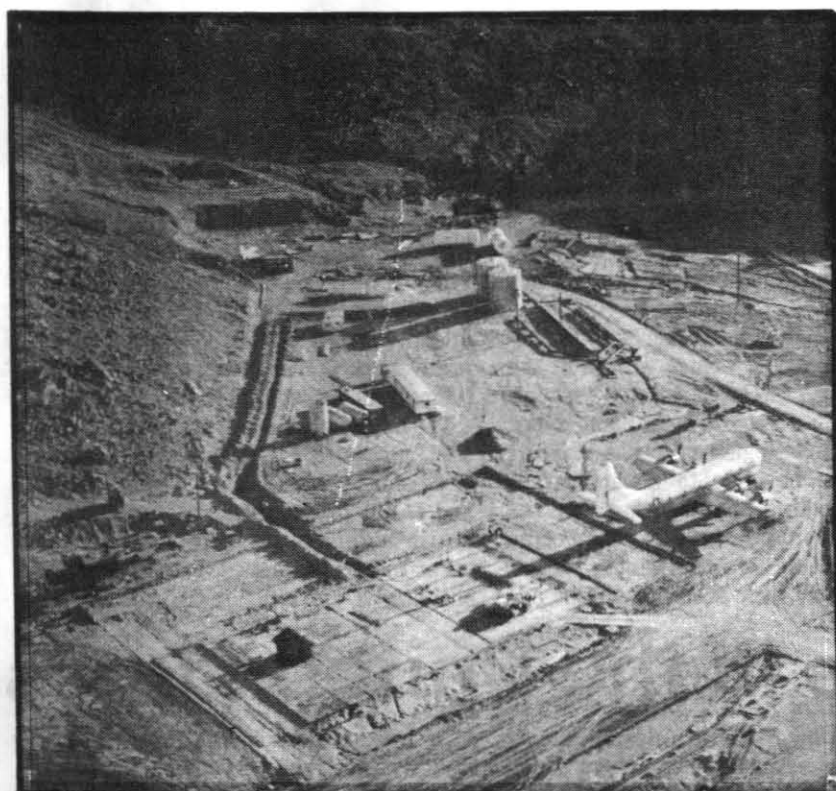
**MOVING ALONG** — Looking at the foundation being laid for the new fiber optics trunk system building are (l. to r.) John Mooney, Ed Scullin and Norm Carroll. Scullin, project engineer for FOTS, shows his co-

workers where some of the hub equipment will be installed. This building will house the hub transmission equipment for the 15 nodes at various work areas throughout Center lands.

**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)



## NWC Minideck tests save lives of naval aviators



**1775**  
**Years of Naval Aviation**

Untold numbers of naval aviators and flight deck crewmen owe their lives and safety to tests performed at the Minideck facility located at the crosswind firing range at NWC.

The facility was built in 1970 following disastrous aircraft carrier fires; realistic conditions the facility provides ensures results of tests of firefighting equipment, agents and techniques will be applicable to conditions found at sea on actual aircraft carriers.

Every one of the primary firefighting tools now in use on aircraft carrier flight decks from the P-16 fire truck to Aqueous Film Forming Foam (AFFF) hose lines, were originally proof-tested at the Minideck.

The Minideck consists of an 83-by-120-foot simulated flight deck made of heat-resistant concrete. An elaborate array of selectable, liquid-spray nozzles is built into the deck and connected to an underground remotely-controlled firefighting-agent distribution system. Wind to simulate actual deck conditions is provided by a permanently emplaced overage C-97 cargo aircraft, whose propellers can send a controlled airflow of up to 40 knots across the Minideck. A water storage and distribution system supports tests as well.

The facility is heavily instrumented to ensure that all data needed is gathered. Computer assistance can be provided for data reduction and film crews are available to record the happenings on video and motion picture film if needed.

Supporting the facility also is the expertise of the Center's Fire Division personnel to assist in conducting tests.



## China Lake Police Reports

Center gymnasium personnel turned in two sets of keys to police they had found earlier in the year. Anyone who has been missing keys for a long time — and has not yet replaced them — might check to see if either of these is the lost group.

When a husband and wife argument escalated on Vieweg Circle, police were called to keep the peace.

At 11:05 p.m. Saturday police stopped a driver for a traffic violation at Burroughs and Withington and discovered the driver was under the influence of alcohol. The driver spent the next five hours sobering up at the China Lake police station before he was cited into East Kern Municipal Court and released.

A wire eye protection mask was found at the southwest corner of Building 21. It has been placed in the police evidence locker from which its owner can reclaim it.

In a non-injury accident, a vehicle parked facing the dirt area north of Leyte rolled backwards when the driver put it into neutral. The vehicle struck a light control box, receiving moderate damage.

A 12-year-old at Richmond School reported his bike was missing. Police found the bike at the intersection of Ticonderoga and Coral Sea and returned it to its owner.

An estranged wife reported to police that her husband made threatening phone calls to her at her place of work.

Police stopped a vehicle at the intersection of Blandy and Lauritsen at 1:30 a.m. and discovered that the driver was under the influence of alcohol. The driver spent the next several hours incarcerated at the China Lake police station before being cited into East Kern Municipal Court and released.

Shortly after 7 a.m. Monday a motorcyclist traveling north on Cobra failed to see that the vehicle in front of him had stopped and struck the vehicle. The motorcyclist sustained injuries to his right ankle and was transported to the Ridgecrest Community Hospital by NWC ambulance.

An unknown person or persons entered the Module GSE Support Building and removed miscellaneous tools from the locked trailer.

Loud music from a residence on Sykes Circle drew complaints from neighbors and a call from the police to keep the peace by turning the volume down.

A driver who had been watched by police was finally stopped in the 100 block of West Inyokern Road at 9:44 p.m. Monday and found to be driving under the influence of alcohol. He was brought to the China Lake police station, kept for 5 hours until sober, and released after being cited.

During a command-authorized vehicle inspection, one driver was found to be driving without a valid driver's license. He was cited.

An unknown person or persons removed four integrated software packages from Telemart; the cost of these makes this a grand theft.

Unknown vandals cut the wire in the engine compartment on a vehicle parked behind a residence on Vieweg Circle.

As two vehicles passed each other on Water Road, one kicked up a rock. This struck the windshield of the other vehicle, cracking the windshield.

Two driverless cars attacked each other on Burroughs Avenue. The driver of one failed to adequately set the emergency brake; the vehicle rolled and struck another unoccupied car.

## Military tested for AIDS

Testing of all active duty service members for Acquired Immune Deficiency Syndrome virus antibodies continues in each service.

"As of May 1986, approximately 300,000 service members were screened for the HTLV-III antibody," said Air Force Lt. Col. John R. Herbold, a senior policy analyst for preventive medicine and health promotion with the Office of the Assistant Secretary of Defense for Health Affairs.

So far, the services have concentrated their testing on those service members who have received orders for overseas duty or duty aboard ship. The number of positive tests has averaged about 1-2 cases per 1,000 tested.

Herbold said the purpose of the AIDS testing is to protect the service members. "We don't want to send somebody who has a potentially compromised immune system into field conditions in parts of the world with a high risk of endemic disease and/or minimal medical support. We also don't want to put people who are infected in situations where unscreened blood transfusions may be required."

The most critical military population —

those concerned with ready deployment and those already serving in critical positions — have been tested first. Testing for the remainder of the military population continues and Herbold expects the HTLV-III antibody test to be integrated into the routine physical examination schedule as needed.

New recruits have been tested for the AIDS virus since October 1985. So have those recruited through Reserve Officers Training Corps, National Guard and Reserve, and those applying to the military academies.

Since May 1986, 408,621 potential recruits have been screened for infection with HTLV-III, according to Herbold. Of those, 604 applicants have been tested positive. "The Western Blot confirmed positivity rate has continued to be approximately 1.5 per thousand individuals tested," said Herbold.

Since 1981, the Department of Defense has reported approximately 300 cases of AIDS or AIDS-related infections, according to Herbold.

By Tom Joyce  
American Forces Information Service



**HELPFUL** — Capt. John Burt, NWC Commander, congratulates Eleanor Johnsen, acting head of the Protocol Office, as he hands her a certificate sent by Col. Al Russell, West Coast Director of the Model Installations Program. The certificate thanked Mrs. Johnson for her "Unjustifiable overcommitment to customer service" during Col. Russell's visit to the Center.

— Photo by PH2 Rick Moore

## Happy Birthday

**CAKE CUTTING** — Highlighting the annual Marine Corps Birthday Ball held at NWC's Enlisted Mess, was the traditional birthday cake cutting ceremony. Guest of honor for the night was Brig. Gen. Donald E.P. Miller, USMC, Commander, Marine Corps Air Bases, Western Area. The Marine Corps celebrated 211 years of service to the nation at Monday night's gala event.

— Photo by Jan Silberberg



## Survivor Benefit Plan changed by U.S. Congress

Required spouse agreement and elimination of the Social Security offset system are among significant changes to the Survivor Benefit Plan that were contained in the Department of Defense Authorization Act for Fiscal Year 1986.

Enacted by Congress in 1972, the Survivor Benefit Plan provides an annuity in monthly payments to the retiree's spouse (or other dependents) upon the retiree's death. The government pays a substantial part of its cost. The cost to retirees is withheld from retired pay — there is no cost to any member until he or she receives, or is entitled to receive, retired or retiree pay.

The following changes became effective March 1 of this year:

For active duty members, spouse agreement is required if the member: (a) declines coverage under the plan; (b) elected less than maximum spouse

coverage; or (c) elects child-only coverage.

For Reserve members, spouse agreement is required if election under the Reserve component of the plan is: (a) less than the maximum for spouse coverage; or (b) for child-only coverage.

If spouse agreement is not received before an active duty member's retirement date or in conjunction with a reservist's election upon notification of eligibility for retired pay, then full spouse costs and

coverage will be implemented, regardless of any request by the member to do otherwise.

The Social Security offset is eliminated and replaced with a two-tier benefit structure. Surviving spouses, former spouses and dependent children will receive 55 percent of the base amount until age 62 and 35 percent thereafter. But, surviving spouses receiving an annuity under the plan on Oct. 1, 1985, and beneficiaries of members who were retired or who were retirement-eligible

on or before Oct. 1, 1985, will be "grandfathered." That is, the service finance offices will compute annuities for these persons under both Social Security offset and the two-tier system, and will pay the greater amount.

Former spouse coverage now carries the same cost and annuity as spouse coverage. Other new former spouse provisions include: (a) the member may elect former spouse and child coverage for children of a marriage to that former spouse (children of other marriages may not be covered); (b) the member may elect a reduced base amount for former spouse coverage; (c) the former spouse loses annuity if remarried before age 60; (d) the former spouse may receive only one Survivor Benefit Plan or Reserve Component Plan annuity; and (e) the former spouse annuity is subject to an offset for dependence and indemnity compensation.



**Military News**

## NEX News

Observing the Long Beach grand opening of the Navy Exchange will be a local grand opening sale from today through November 17. Also underway is Toyland's Playskool toy sale, which lasts through Nov. 26 (the excellent layaway plan will help those whose wallets are a little thin but who want to get their shopping done early while there's a lot of choice).

The Christmas Wish Book is also out to help with those tough decisions about what to get for Santa Claus to put under the holiday tree.

Anyone who prefers to shop on an impulse should plan to save every spare penny for the next Super Sunday Sale — the date on that is Nov. 23 (the following week there'll be the big After Thanksgiving Sale, Nov. 28 and 29, also for traditionalists who figure that's the date to get all the holiday shopping done).

## FRA supports memorial

Directors of the 161,000-member Fleet Reserve Association pledged \$1 million toward completion of the U.S. Navy Memorial now under construction in Washington.

The FRA pledge will bring life to "Homecoming," a sculptural concept of a three-figure statue of a sailor being welcomed home from an extended cruise by his wife and young son.

The Navy Memorial was authorized by Congress in 1980 with the stipulation that funding for the project be raised through private donations.



**TRAP MILESTONE** — LCdr. Deen Poe made aviation history earlier this year when he became the first lieutenant commander to hit the 1,000 carrier arrested landings in the A-6 Intruder. LCdr. Poe, maintenance officer for Attack Squadron 35, has more than 3,400 hours in the A-6 and arrested landings on six different carriers. He recorded his 1,000th trap onboard the USS Nimitz while flying with Cdr. Ron Pearson (left), VA-35 commanding officer. LCdr. Poe was assigned to the Naval Weapons Center prior to joining VA-35.

## CHAMPUS increases

Since Oct. 1 of this year CHAMPUS inpatient cost-share rates have been \$7.55, up from \$7.30 as the daily amount active-duty families pay for inpatient care at civilian hospitals.

This means for every day an active-duty family member spends in a civilian hospital, under CHAMPUS, he or she will pay \$7.55 for a total of \$25, whichever is greater.

Military retirees and their families (or survivors of deceased active duty or retired personnel) pay 25 percent of the cost of covered care in the civilian hospital.

Additionally, people using CHAMPUS are reminded the deductible for outpatient care started over again on Oct. 1. This requires those using CHAMPUS for outpatient care to pay the first \$50 (for one person) or \$100 (for a family) of allowable outpatient medical bills. The deductible period ends on Sept. 30, 1987.

## Hunters find poor shooting

Weather in the Owens Valley last week was beautiful — a boon to hunters and anglers because even if they didn't have any outstanding success, they could still enjoy the fall scenery.

Biggest success was scored by duck hunters, who were averaging about two birds per hunter. Really good duck hunting won't be available until severe winter storms up north send the birds south in search of warmer weather.



## Learning Center has wide range of subjects available

Training in a wide range of subject areas is available 24 hours every day of the week at the Learning Center, located at the northeast corner of the Training Center on Inyokern Road.

Self-study courses can be correspondence classes; those on audio or video cassette that can be checked out and taken home or to the work place; or they can be PLATO, Actioncode, and other computer-aided instruction that must be done in the Learning Center itself. To accommodate students, the Learning Center is never closed. Some students use lunch hours to enhance their knowledge of a field, others come in before or after work or during work hours. Some solve baby-sitting problems by waiting until other family members are home, nights or weekends, to trudge in to the Learning Center, switch on the computer and begin their lessons.

Self-study courses are self-paced; students can complete these at their own rate of speed, although guidelines for average completion times are generally given. Students can also sign up for a course at any time; they don't need to wait for an instructor to be available.

One advantage of the 300 or more classes now offered through PLATO is that if the student runs into a seemingly insoluble problem, he or she can dial the center for instruction through the telephone hook-up and get a tutor on the line to assist. (For some types of courses, some of the Training Center personnel can assist as tutors or technical personnel elsewhere on the Center who have volunteered to tutor.)

Some of the more popular PLATO classes are now available on disks, which saves telephone expense; the examinations, however, must still be taken on-line with one of the PLATO terminals.

Eleven of the PLATO classes give college credit at Cerro Coso Community College; additional college credit classes are being explored, with the next one probably being algebra and COBOL.

Several types of computers are kept in the Learning Center, along with courses designed specifically for these computers to enable new users to learn how to handle them. For instance, there's an introductory course to the world of the personal computer, there are Apple, IBM and VAX user classes -- and offshoots, such as Wordstar, DOS, DBASE II, ERI Utilities and Commands -- and then general computer classes like Pascal, BASIC, FORTRAN, and their relatives.

Those who don't like to use a keyboard are also not forgotten. A variety of courses mainly in the shop and trade areas are designed for Actioncode. Actioncode uses laser disks; when the student is ready

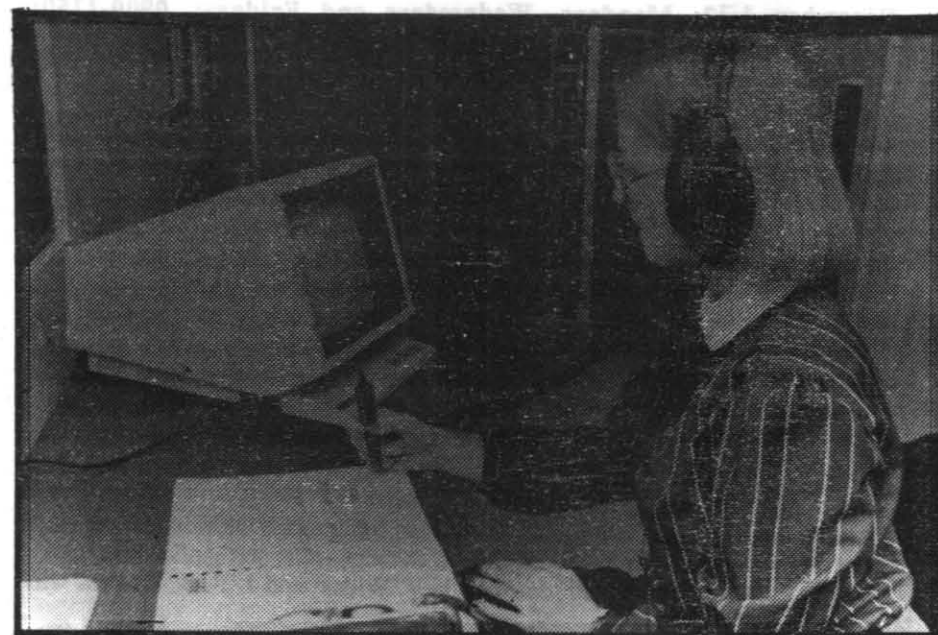
to move on to the next frame, he or she uses a wand to read a barcode in the workbook. Courses for Actioncode include, for instance, "Robotics."

Some of the classes are designed strictly for on-Center applications. These are predominantly in the secretarial field, and in the area of contracts and other Supply Department work areas.

A number of technical courses are also offered, especially valuable for the technical person who finds getting away to attend class difficult. Many of these are offered through the Massachusetts Institute of Technology and other equivalent institutions. Among the most popular of these courses are ones dealing with airborne radar, fluid dynamics, artificial intelligence, logic design, finite mechanics, geometric dimensioning, corrosion control, missile guidance, modern control theory, and software engineering.

Beta, VHS, and 3/4 inch video tape cassettes can be checked out for some of the primarily self-development courses. Many of these are also available on audio tape. These include discussion starters for meetings, time management, communication, how to get results, how to influence others, how to plan a career. Some are tapes recorded at Center meetings or seminars -- "Paradigm Shifting," for instance, is the most recent.

Students who aren't familiar with computer terminals should not let that



**HARD AT WORK** — Camille Martin, a quality assurance specialist in the Quality Assurance Branch of the Engineering Department, uses Actioncode to study a course in electronic technology. Moving the wand over the barcode in the study guide changes the picture on the computer screen. — Photo by PH2 Rick Moore

deter them from signing up for any of the computer-aided instruction. Complete instructions on the use of a terminal is by that terminal, and, during normal working hours, Training Center personnel are on hand to answer questions about use of the equipment.

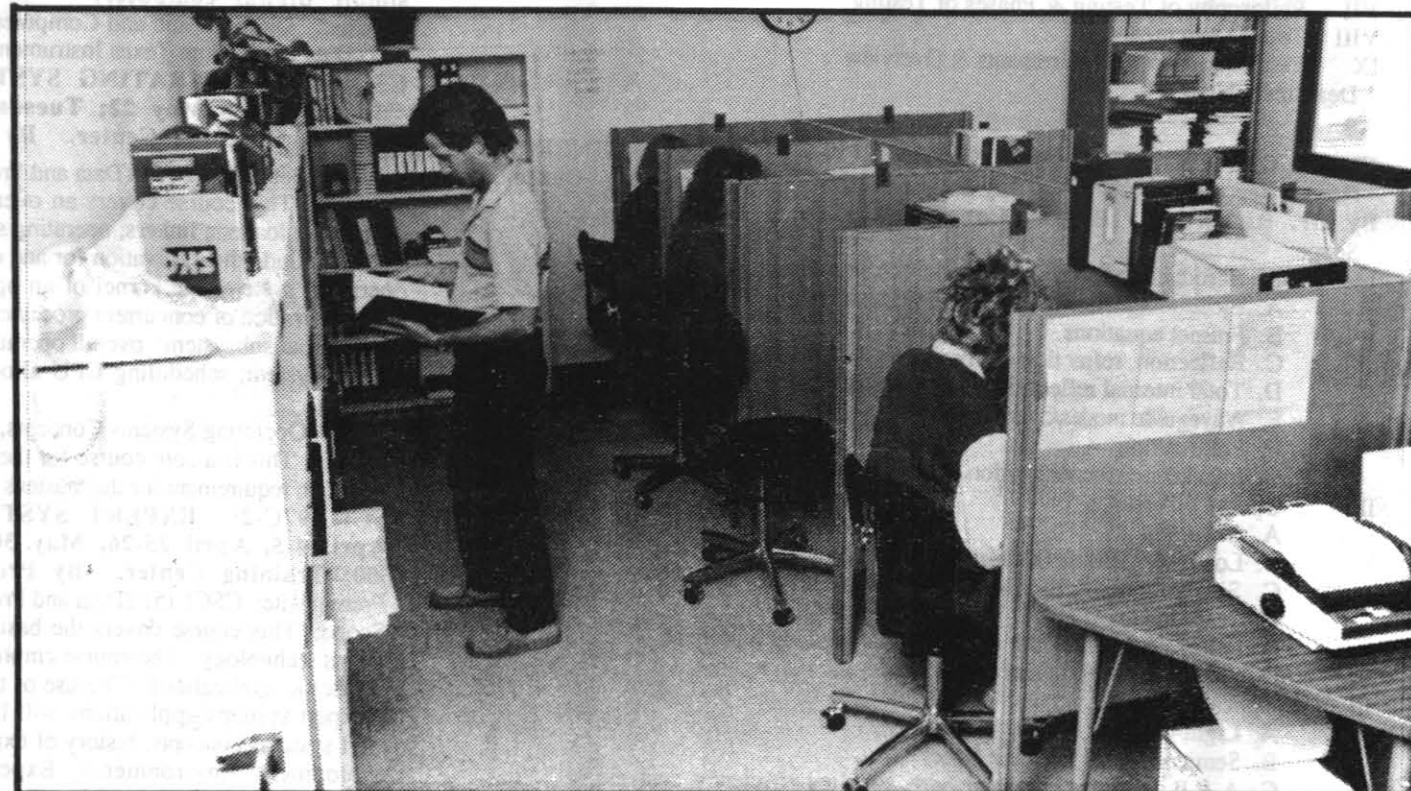
A new list of classes is expected to be distributed in February. Until that time, Training Center personnel will be happy to answer questions about what courses are offered.

Self-study classes are open to all Center personnel. Correspondence courses require a completed DD Form 1556 to be sent to

Code 094 via the enrollee's department office. All other self-study courses taking at least four hours to be complete require a completed NAVWPNCEN Form 12410/73 be sent to Code 094 via the appropriate department office.

Those taking less than four hours to complete can just be checked out through the CCF Library, the Center library, the audiovisual library or the Training Center, depending on the type of class.

Further information about the Learning Center and courses offered can be obtained by telephoning Marie Duff, NWC ext. 2675.



**PLACE TO STUDY** — The Learning Center and its wide range of computer terminals and other aides to

self study is available to Center personnel 24 hours of each day of the year. — Photo by PH2 Rick Moore

## Madrigal to be on-Center Dec. 1

Dr. Orlando Madrigal of Cal-State University Chico will be on-Center Dec. 1 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 Cyndi Jones at NWC ext. 2648.

## Cal-State Bakersfield advisors to be on-board Dec. 3

Academic counselors of Cal-State Bakersfield will be on-Center Dec. 3 to advise current and prospective students in the external degree programs offered by that school.

External degree programs offered at NWC by Bakersfield include a bachelor's degree in business administration and a master's degree in administration. Bakersfield also provides math courses in other external degree programs at NWC.

Those who wish to see one of the academic counselors are asked to make an appointment by telephoning Cyndi Jones at NWC ext. 2648.

## Ways to prepare for the Great American Smokeout

November 20 is the date for the "Great American Smokeout" -- the day smokers are asked to take a day off from smoking. Below is a list of things suggested by the American Cancer Society to do to prepare for the big day.

Nov. 14 -- **PREPARE.** Make a list of the reasons you want to quit smoking -- your own personal reasons.

Nov. 15 -- **PICTURE SUCCESS.** Imagine what Smokeout Day will be like at home and at work. See yourself getting through the day without a cigarette.

Nov. 16 -- **CLEAN UP.** Cut down on the amount of cigarettes, ashtrays and lighters you keep around the house, in the car and at work. Make smoking a smaller and smaller part of your life.

Nov. 17 -- **PICK REWARDS.** Use your imagination and make a long list of rewards for not smoking. Look ahead to a period of fun and celebration. You deserve it!

Nov. 18 -- **PLOT STRATEGIES.** Make a list of nonsmoking places to spend time, friends who will be supportive, and relaxation exercises. Plot strategies for all the obstacles you can imagine.

Nov. 19 -- **STOCK UP.** Stock up today on all the things you'll need tomorrow -- stick cinnamon, fresh fruit and vegetables, fruit juices, diet drinks and chewing gum. Especially stock up on courage, commitment, and a lot of pride!

Nov. 20 -- **SMOKEOUT DAY - DO IT!** Today is the day you've been planning for. You've done a lot of thinking about stopping smoking. Now you're ready to do it. Congratulations!



## Personnel News & Notes

No. 72 / November 14, 1986

Naval Weapons Center, China Lake, California 93555-5001

### PROMOTIONAL OPPORTUNITIES

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

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

No. 08-067, Supervisory Budget Analyst, DP-560-3/4, Code 087 — Incumbent will serve as head, Corporate Budget Staff. Responsibilities for all phases of budget execution, formulation, control and monitoring of direct, overhead, capital and service center budgets and for conducting financial analyses. **Abilities:** to prepare clear and concise written and oral communications; to deal tactfully and effectively with others; to supervise. Willingness to support NWC's EEO program and objectives. Newly appointed supervisory candidates selected for this position are required to serve a one-year supervisory probationary period. Promotion potential to DP-4. Previous applicants are not required to reapply.

No. 09-086, Employee Relations Clerk, GS-203-4/5, Clerk-Typist, GS-322-4, Code 091 — Provides clerical support to the division in the incentive awards program, in the insurance and retirement program and in other employee relations programs as needed; checks incentive awards submissions for accuracy and collates for proper investigation, distribution and review; types letters, memorandums, reports, minutes of meetings and NWC Instructions from rough drafts and notes and otherwise performs all clerical tasks assigned in support of division operations. **Elements:** Ability: to type accurately and efficiently; to comprehend and apply regulatory information; to use tact and discretion in dealing with all levels of NWC employees. Promotion potential to GS-203-5. Status eligibles may apply.

No. 09-087, EEO Specialist, DA-260-1/2/3, Code 093 — Duties include management of the Handicap Program, Upward Mobility Program and 30 percent Disabled Veterans Program. Responsible for meeting Navy guidelines and reporting requirements. Conducts training to participants in staffing activities. Assists complaints' managers as needed and cross-trains in the complaints function. **Elements: Knowledge:** of Personnel policies, practices and procedures; of EEO laws and regulations. **Ability:** to present technical reports; to interface with others in confrontation situations. Promotion potential to DP-3. Status eligibles may apply.

No. 24-020, Security Clerk, GS-303-4/5, Code 24311 — This position is located in the

Physical Security Branch of the Security Division, Safety and Security Department. The incumbent is a security clerk and as such implements the requirements for the Badging Section and applies security policies in carrying out the requirements for the processing of the Center's visitor program, foreign visitor program as well as its contract employee program. Incumbent must possess tact, diplomacy, personality and skills required to deal with and maintain liaison even under adverse, stressful conditions with personnel of all levels of government and private industry. Position requires knowledge of OPNAV, SECNAV and NAVWPNCEN instructions relating to personnel and physical security. Promotion potential to GS-5.

No. 26-071, Management Analyst, DA-343-2/3, Code 2693 — Position is located in the Planning Branch, Facilities Planning and Resources Division, Public Works Department. Incumbent is responsible for preparing documentation for projects, site approvals, reports and budgets as required by the Navy's Shore Facilities Planning System (SFPS). Coordinates the planning of new or modified facilities of widely varying complexity in support of the Center's mission. **Elements:** Ability to use a variety of management techniques and methods together, analyze and evaluate information; to analyze problems and develop logical solutions; to communicate well both orally and in writing. Promotion potential to DA-3. Previous applicants need not apply.

No. 34-016, Management Assistant, GS-344/4/5/6/7, Code 341 — Incumbent is responsible for managing the NWC copier program. Management of the copier program entails placement, utilization and funding for some 200 convenience copiers ranging from table-top models to high-volume production machines located throughout the Center. **Elements:** Ability to work independently; ability to work with others; ability to gather, compile and analyze data. Promotion potential to GS-7.

No. 36-196, Clerk/Typist, GS-322-3, Code 360 — Incumbent provides clerical support to department staff, Program Offices, Mail Room (and other positions as required) during absences of current incumbents. Duties consist of receiving visitors and incoming phone calls; receiving and

distributing incoming mail; typing official letters, memorandums, travel orders, travel vouchers and other forms; performing timekeeping duties; maintaining office files, etc. **Elements: Knowledge:** of office procedures; of correspondence format. Promotion potential to GS-4.

No. 36-200, Engineering Data Technician, GS-303-4/5/6, Code 3651 — Incumbent will assist senior specialist to process, record, account for and report on engineering documentation and engineering change actions. **Elements: Knowledge:** of data change procedures; of documentation (drawing/blueprints); of engineering terminology pertaining to the processing of changes. **Ability:** to read data/configuration management form. Promotion potential to GS-6.

No. 36-201, Management Assistant, GS-344-6, Code 3651 — This position is located in the Data Acquisition and Control Branch. Incumbent will perform a variety of duties in connection with administrative support required within the branch. Primary duties include reviewing/preparing cost reports for CADMSS and overhead funding; establishing/maintaining performance planning studies; preparing organization charts and functional statements; and conducting and reporting on performance advancement studies. **Elements: Knowledge:** of CADMSS; of personnel forms and records; of plant account forms/requirements; of Delivery Order requirements. **Ability:** to collect information through varied sources/methods. No promotion potential.

No. 36-202, Engineering Data Management Specialist, DS-301-1, Code 3651, Multiple vacancies — Incumbent will plan, program, implement and monitor the acquisition of the technical documentation required throughout the life cycle of a weapon system. **Elements: Knowledge:** of configuration accounting and governing standards, directives and specifications.

### Reassignment opportunities

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

No. 31-165, Interdisciplinary Electronics Engineer, Physicist, Mathematician, General Engineer, DP-855/1310/1520/801-3,

Code 31507 — The position is project manager of the Fighter/Attack Avionics Targeting Demonstration (F/AATD), a multi-year \$12M exploratory development effort to develop and demonstrate multisensor targeting for the long-range air-to-air mission. The key activities remaining are the integration of multisensor algorithms into the real-time system, the

**Abilities:** to read, comprehend and apply written material; to communicate orally; to communicate in writing. Promotion potential to DP-3; however, promotion is not guaranteed.

No. 36-203, Administrative Officer, DA-341-1/2/3, Code 36402 — Provides full range of administrative support functions, including management studies, analysis and reporting; budget administration and project and overhead financial management; personnel and organizational management; provides division management with recommendations/alternatives in resolving administrative issues; provides assistance in staffing, recruiting and other personnel procedures. **Elements: Ability:** to carry out studies and analysis; present findings and recommendations; exercise fiscal controls over NIF system. **Knowledge:** of NAVWPNCEN, Navy and DOD budget administrative processes; personnel policies, procedures and standards. Promotion potential to DA-3.

No. 39-047, Office Services 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. Promotion potential to GS-5.

### Recent Additions

Code	Name	Title
08621	Neider, Nanette R.	Accounts Maint. Clerk
08621	Pinnell, James J.	Accounts Maint. Clerk
08621	Pinnell, Samuel J.	Accounts Tech.
25204	Palmer, Mary L.	Clerk-Typist
25251	Ayler, Antoinette C.	Clerk-Typist
31942	Lundin, Gregory K.	Aerospace Engr.
3314	Alday, John R.	Electronics Engr.
3646	Marcus, William A.	Model Maker
36513	Stratton, Jerri L.	Clerk-Typist



## Secretarial opportunities

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

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

Unless otherwise indicated, applicants for Branch Secretary will be rated on elements 1/2/3/5/8; Division Secretary applicants will be rated on elements 1/2/3/4/5/8/9; 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. 33-026, Secretary (Typing), GS-318-4/5, Code 3383** — Provides secretarial support to the Applied Research Branch and occasional supplemental support for Division Office. Familiarity with IBM Displaywriter system desirable. Promotion potential to GS-5.

**No. 38-004, Secretary (Typing), GS-318-3/4, Code 3850** — Provides secretarial support to the Chemistry Division. Promotion potential to GS-5.

**No. 39-052, Secretary (Typing), GS-318-5/6, Code 39E** — Incumbent provides secretarial support to the Advanced Projects Office of the Weapons Department. Ability to develop proficiency in the operation of an IBM Displaywriter is required. Ability to obtain a Top Secret clearance is required. Promotion potential to GS-6.

## Help offered troubled employees

Center employees who feel that they have a personal problem they don't know how to solve can get help through the Employee Assistance Program.

Under this program, the Center will pay for up to two visits with a professional counselor at the Desert Counseling Clinic during which the employee can discuss — confidentially — with the counselor what he or she feels is the problem, and see if there's any avenue that looks as though it could lead to a solution.

If that solution involves additional counseling or referral, the employee can also get help in determining if the health plan under which he or she is enrolled will provide the needed services.

Problems can be of any type: personal, including feeling stressed; family; marital; or substance abuse (either on the part of the employee or of a family member). Counselors do not report back to the Center what the problem is; what is discussed in a self-referral is strictly between the employee and the counselor.

During the past year, says Ed Rockdale, who heads the Employee Assistance Program, between 80 and 90 percent of the approximately 400 employees taking advantage of EAP are self referrals. He adds that sometimes a supervisor may advise an employee that such help is available.

Supervisors can request an employee seek help under the EAP, but cannot demand the employee seek counseling, if the supervisor feels the employee has a problem that is impacting job performance. If the initiating request is by the supervisor, then the Center will pay for up to four visits with a counselor.

In addition, the supervisor may also see the counselor up to a couple of times to see if there's any way that the supervisor can help productively address whatever the problem may be. This could, for instance, be by changing a job assignment.

In addition to the counseling visits for a wide range of problems, two counselors, a man and a woman, are available at the Personnel Building 40 hours each week for managers, personnelists or employees to talk with regarding substance abuse problems. Both male and female counselors are available so that the employee can choose which he or she wishes to deal with.

The government has a legal requirement and a positive responsibility to offer "reasonable accommodation" to an employee who feels that he or she has a substance abuse problem. The supervisor can make an appointment for an employee to discuss his or her problem with a substance abuse counselor — and sometimes it is necessary to require that the employee attend such a session because a main factor in substance abuse is that the abuser denies having a problem.

The role of the supervisor here is to try to keep the person getting help on track by providing a support mechanism in the form of the substance abuse counselor.

If an employee admits having a substance abuse problem and wishes to get help for it, the EAP will help that individual contact clinics, determine what health plan benefits may be available, and some supervisors have even visited employees while they are undergoing therapy in clinics.

"Most supervisors will go out of their way to salvage a worthwhile employee," says Rockdale. "The Center encourages this. It makes good economic sense to protect the financial investment that NWC has in training and skill by helping an employee get his or her life back on order."

Rockdale concludes with "If the employee recognizes a problem, we'll try our best to provide suggestions and ideas to help solve that problem."

The EAP can be reached by telephoning NWC ext. 2574.



## Personnel Development Opportunities

### CALIFORNIA STATE UNIVERSITY WINTER CLASSES BUSINESS ADMINISTRATION AND ADMINISTRATION

The following classes are being offered this winter for the Cal-State Bakersfield Business Administration (bachelor's degree) and Administration (master's degree) Programs.

To enroll in these classes, submit a Training Request Form (NAVWPNCEN 12410/73) via department channels to Code 094. Registration will be held in class at the first class meeting. Deadline for enrolling is 10 calendar days before the starting date of the class. Although training requests will be accepted after the deadline, that date will be used to determine whether the class will be held.

#### BA374: BUSINESS AND SOCIETY (5 quarter units)

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

Scope: Focuses on the external environment within which the business firm must operate. Considers those situations where the market system fails to solve problems that society deems important. Topics include consumerism, ecology, quality of work life, ethics in business, and corporate response to the environment.

Note: This is a required course for the bachelor's degree in business administration.

#### ADM620: FINANCIAL DECISION MAKING IN ORGANIZATIONS (5 quarter units)

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

Scope: Covers the following topics: Public Sector Project appraisal; cost benefit analysis, estimating, and forecasting revenues and costs; project planning and auditing; productivity measurement; debt administration; idle funds management; and decision making under uncertainty.

Note: This is a required course for the MS degree in administration and satisfies the MPA core requirement of PPAS11: Public Budgeting.

#### SOC405: SOCIOLOGY AND TECHNOLOGY (5 quarter units)

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

Scope: Examines reciprocal relationships between technology and society, emphasizing the manner in which technological changes alter basic social institutions, including the family, religion, and the military, and even science itself. Special attention is given to the positive and negative impacts of technology on the individual and the dilemmas posed by the creation of a technology dependent economy.

Note: This course satisfies General Education Goal XIII.

#### ECON540: THE ECONOMICS OF THE PUBLIC SECTOR (5 quarter units)

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

Scope: Topics include an examination of the economic principles and concepts that affect the public sector in our mixed economy, specific analysis of public expenditures and taxation theory, application of cost benefit analysis to specific expenditure programs, and an evaluation of the economic implication of taxation.

#### GENERAL COMMENTS

1. Textbooks are available at local bookstores.
2. Job-related courses other than those listed above or those offered under contract with Cal-State Northridge or Cal-State Chico must be approved on an off-Center Training Request (DD 1556) before registration if NWC is expected to pay for the training. For more information, contact Cecil Webb, ext. 2648. (Code 094)

#### ADVANCED WORDSTAR

December 1-12; Mondays, Wednesdays and Fridays; 0900-1150; Cerro Coso Community College, Rm. 122. By C. Witherow.

Prerequisite: Experience using Wordstar, or CS 71A.

Intended Audience: Experienced Wordstar users.

Course Objectives: In this course you should learn to use mailmerge and Spellstar to customize Wordstar applications; enhance documents using advanced Wordstar functions; and learn to use mailmerge techniques for customized correspondence to multiple mailings.

Presentation Methods: Hands-on workshop/lecture.

NOTE: Students must register at Cerro Coso Community College (CS 71D, Ticket # 3446.01). Upon approval of the On-Center Training Request, Code 094 will pay for books and tuition directly to Cerro Coso.

Deadline: Nov. 17, 1986.

#### ELECTRO-OPTICS AND ACOUSTO-OPTICS

November 17 and 18, Monday and Tuesday, 0800-1600, Training Center. By Dr. Richard Hughes, Consultant.

Scope: Topics include history, definitions, and background information; physical principles; theoretical considerations; materials; components; and applications.

Text: *Optoelectronics: An Introduction*, by J. Wilson and J. F. B. Hawkes will be provided.

Deadline: Call Jeannie, NWC ext. 2359, and follow-up with enrollment form to Code 094.

#### MIL-STD-1553 2-DAY SEMINAR

December 2-3, 0800-1600, Training Center. By Leroy Earhart, founder and president of Test Systems, Inc.

Intended Audience: People who may be required to specify, design, or test MIL-STD-1553-compatible equipment, or who may perform integration of systems employing the standard.

Scope: MIL-STD-1553 is a multiplex data bus standard that defines a high-speed digital transmission system for the interchange of information between equipment internal to a vehicle.

#### OUTLINE

December 2

I Introduction to Multiplexing & MIL-STD-1553

II MIL-STD-1553: Definitions & Protocol

III MIL-STD-1553: Terminal Operation

IV MIL-STD-1553: Hardware Characteristics

V Hardware Design

December 3

VI System Design

VII Philosophy of Testing & Phases of Testing

VIII Test Requirements

IX Test Equipment: Requirements & Overview

Deadline: November 19

#### FIBER OPTICS TECHNOLOGY FOR SCIENTISTS & ENGINEERS

November 19-21, Wednesday-Friday, 0800-1600, Training Center. By Dr. Richard S. Hughes, Consultant.

Scope:

I. An Introduction to Optics & Optical Phenomena

A. Electromagnetic waves (characteristics)

B. Fresnel equations

C. Reflection, refraction & absorption

D. Total internal reflection (critical angle, etc.)

E. Waveguide modes/cutoff frequency

F. Polarization

G. Interference (superposition & diffraction)

II. Optical Fibers

A. Materials

B. Loss mechanisms (absorption & scattering)

C. Single modes & multimode

D. Graded index

E. Dispersion, bandwidth & link length/bandwidth product

F. Characteristics of state of the art

III. Optical Sources

A. Light-emitting diodes

B. Semiconductor injection lasers

C. A & B contracted by bandwidth, coupling efficiency, cost, etc.

IV. Detectors

A. Materials & processes

B. PIN photo diodes

C. Avalanche photo diodes

D. Repeaters (source/detector combination)

Integrated Optical Circuits

A. Materials & fabrication techniques

B. Sources, detectors, lenses, couplers, modulators, etc.

C. Integration of components

VI. Hardware

A. Fibers & cables

B. Connectors

C. Time domain reflectometers

D. Splicers

VII. Systems Considerations

A. Bandwidth, link length

B. Environment

C. Examples

Deadline: Call Jeannie, NWC ext. 2359, and follow-up with enrollment form to Code 094.

## CSC classes scheduled

The following classes are being offered this spring for the Cal-State Chico Computer Science Program (bachelor's and master's degrees). To enroll in these classes, submit an on-Center Training Request (NAVWPNCEN 12410/73) via department channels to Code 094. Registration will be held in class at the first class

meeting. Deadline for enrolling is 10 calendar days before the starting date of the class. Although training requests will be accepted after the deadline, that date will be used to determine whether the class will "go."

CSCI 397C-1: ROBOTICS (3 units)

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

Prerequisite: Senior standing.

Scope: Students will be provided with sufficient background information and an introduction to the state-of-the-art in the four areas of locomotion (artificial feet), manipulation (artificial hands), computervision (artificial eyes), and computerspeech (artificial voice/ears), to enable them to perform original research and/or make original contributions in any one or more of these fields.

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

CSCI 320A: DIGITAL AND ANALOG TRANSFORM THEORY (3 units)

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

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

Scope: Through lectures and assigned readings, the instructor will provide sufficient background in the mathematical techniques of signal processing theory to permit students to do independent study in areas involving signal processing. Students are to do independent study in some area of signal processing which is of personal interest to them. Examples include: music synthesis, speech generation, speech recognition, video processing, image enhancement, pattern recognition.

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

CSCI 280: DIGITAL LOGIC DESIGN THEORY (3 units)

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

Prerequisite: CSCI 171: Computer Architecture, or the equivalent experience which has provided an introductory knowledge of logic gates, Karnaugh mapping, and assembly language programming.

Scope: The course covers the design of combinational and synchronous sequential digital circuits. The student will design a simple digital computer. Topics include combinational logic (Boolean algebra, Karnaugh maps, switching functions, NAND and NOR design, don't care terms, minimization, iterative circuits, decoders, multiplexers, programmed logic arrays), memory devices (flip-flops, shift registers, semiconductor RAMS and ROMS), synchronous sequential logic (State transition diagrams, state minimization and state assignment, register transfer operations, analysis and synthesis of synchronous sequential machines, counters, bus interconnections, synchronous inputs to clocked logic), and the design of a simple digital computer.

Texts: "Digital Logic and Computer Design," Mano, Prentice-Hall, 1979. "The TTL Data Book From Texas Instruments."

CSCI 152: OPERATING SYSTEMS PROGRAMMING (3 units)

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

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

Scope: This course covers an overview of system and software function and evolution; loaders; linkers; operating system architecture from the kernel outwards. Topics include the motivation for and evolution of system software; overview of an operating system; the kernel of an operating system -- process management; the synchronization of concurrent processes; memory management; virtual memory; the input/output subsystem: overall operation and synchronization, and disk scheduling; the file system; scheduling CPU allocation; and resource allocation -- deadlock handling.

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

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

CSCI 397C-2: EXPERT SYSTEMS APPLICATIONS (3 units)

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

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

Scope: This course covers the basic concepts and techniques of current expert systems technology. The course emphasis is on Expert System Shells and their use for specific applications. The use of the language Prolog (Programming in Logic) for expert systems applications will be included. Topics include an overview of expert systems concepts; history of expert systems; the IBM ESD (Expert System Development Environment); Expert Systems Shells on micro computers; introduction to the Prolog AI Programming Language; uses of the language Prolog in expert systems applications.

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

MATH 477: DIFFERENTIAL EQUATIONS (5 quarter units)

January 16 - March 20; Fridays; 1600-2100 (1-hour dinner break); Training Center. By Professor El-Ansary.

Scope: First-order differential equations (d.e.); linear d.e.; linear systems; Laplace transform and its applications to solutions of linear d.e. and systems; series solutions of second-order linear equations and/or numerical solutions of d.e.; topics in non-linear d.e. and systems; applications.

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

SOC 405: SOCIOLOGY AND TECHNOLOGY (5 quarter units)

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

Scope: This course examines reciprocal relationship between technology and society, emphasizing the manner in which technological changes alter basic social institutions, including the family, religion and the military, and even science itself. Special attention is given to the positive and negative impacts of technology on the individual and the dilemmas posed by the creation of a technology dependent economy.

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

#### GENERAL COMMENTS

1. Textbooks are available at bookstores locally.
2. Job-related courses other than those listed above or those offered under contract with Cal-State Northridge or Cal-State Bakersfield must be approved on an off-Center Training Request (DD Form 1556) before registration if NWC is expected to pay for the training. For more information, contact Cecil Webb, NWC ext. 2648.