

BOSS slates formal dinner

A formal, black tie dinner dance will constitute the fifth anniversary celebration of the Black Original Social Society (BOSS) on Saturday, May 17, at the Desert Empire Fairground's Exhibit Building. The public is invited to attend.

A social hour begins the evening at 7 o'clock, followed by a ham and turkey dinner with all the trimmings, including cheesecake for desert catered by the Burroughs High School Future Homemakers of America. Musical selections will be performed during dinner and the presentation of a scholarship and installation of officers will conclude the program.

The evening is planned to finish with dancing to the music of Phorce, a five-piece band and vocalist from the Los Angeles area. Phorce plays a variety of dance music including R&B, soul, country and western.

Tickets are \$15 a person. They may be purchased in advance from BOSS members Catherine Rogers, Vera White and Juanita Martin; Lucile Dunn, NAACP vice president; or can be purchased at the door.



DIFFERENT TEXTURE — Millicent Barner, 4, and Tina Grazier, 6, dig into a bin of cornmeal at the Children's Fair held at Solar Park last Saturday. NWC's Children's Centers and the Desert Area Preschool association joined in sponsoring the event in honor of April being the Month of the Young Child. — Photo by Mickey Strang

Social Security covers more

Since January 1, 1984, most employees of non-profit organizations who earn at least \$100 a year are covered by Social Security. Even employees of a church or church-controlled organization, which itself has elected to be exempted from the payment of Social Security taxes for religious reasons, are covered by Social Security if they earn at least \$100 a year from the church or church-controlled organization. In such cases, the workers are treated as self-employed individuals rather than as employees.

Before 1984, non-profit religious, charitable, educational and similar organizations had to elect Social Security coverage; otherwise, they were exempted from it. Moreover, if such an organization did elect to be covered, it could request that the coverage be terminated after 8 years.

While most of these organizations did elect to be covered, some did not; and of those that did elect coverage, some later terminated. As a result, employees of non-profit organizations who moved between covered and non-covered employment found that there were gaps in their Social Security protection. The change in the law as it applies to non-profit organizations was designed to eliminate these gaps.

One of the advantages of Social Security coverage is that it moves with the worker from one job to another. Employees of non-profit organizations need no longer be concerned about their Social Security coverage when they contemplate changing employment.

For more information on coverage under the Social Security program, contact the Ridgecrest Social Security Office by calling 375-7447. The people there will be glad to answer your questions.

Refunds available

Tomorrow night's Willie Nelson concert in Bakersfield has been cancelled. Those who purchased tickets from the Center's Information, Ticket and Tour Office can receive their refunds from that office by bringing in the tickets.

Last concert of IWVCA season set

Trio Candide—a violin, cello and piano ensemble—will provide music for the last concert of the Indian Wells Valley Concert Association's 1985-86 season. They will play at the Center theater on Monday evening, starting at 7:30 p.m.

Featured artists playing Monday evening will be Rochelle Abramson, violinist; John Steele Ritter, piano; and David Shamban, cello. They will play trios by Haydn, Beethoven and Semtana, as well as the "Trigane" for violin and piano by Ravel. Cello and piano will be featured in the

"Hungarian Rhapsody in D Major" by Popper.

Single performance tickets for Trio Candide can be purchased at The Music Man, Medical Arts Pharmacy and the Art Buffet in Ridgecrest and at the Maturango Museum in China Lake.

Tickets are priced at \$5 for general admission and \$3.50 for people under 21, over 65 and for full-time enlisted military personnel.

Any season ticket holders who do not plan to use their tickets for this concert are ask-

ed to release their seats for resale by telephoning 375-5600.

Trio Candide will also present a student program to local fifth-grade classes and other selected groups from public and private schools in the Indian Wells Valley at 10 a.m. on the same day as the evening concert. Some seating will be available for the general public after student groups are seated. There is no charge for this special program, which is provided as an educational service of the IWVCA, made possible by contributions to the Student Education Fund.

\$1 a bag sale at Thrift Shop

Bargain hunters should scrape together all their cash — there'll be a dollar-a-bag sale at the Thrift Shop operated by the Women's Auxiliary of the Commissioned Officers' Mess next week. Hours of operation are from 6:30 to 9 p.m. on Tuesday and from 10:30 a.m. to 12:30 p.m. on Thursday.

The Thrift Shop, located at 1809 Lauritsen, enables everyone to purchase clothing and other items at low prices. Profits from the operation this spring will be divided equally between the Navy Relief Society and community charitable organizations.



A Chapel Picnic sponsored by the members of the NWC Catholic Congregation of the All Faith Chapel will be held on the chapel lawn on Saturday, May 3 from 4 to 8 p.m.

Supervised games will keep youngsters busy while their elders chat and enjoy other picnic activities. And, of course, there'll be lots of hot dogs, hamburgers, potato salad, beans and other refreshments.

Tickets at \$2.50 per adult and \$1 for youth can be purchased after Sunday Mass as well as in the Chapel office during the week.

their wares and the widest range of foods of any fair in the state is available for purchase. All workers at the Pleasure Faire are in costume—and so is a large portion of the crowd that attends.

Admission is \$12.50 for adults and students, with a \$3 discount for senior citizens who carry adequate identification. Children age 11 and under are charged \$3.95. Parking is free.

As a Ticketmaster and Ticketron satellite outlet, the Information, Ticket and Tour (ITT) office, on the corner of Lauritsen and Blandly, has a great many money-saving offers for military and DOD civilian personnel.

ITT has Knott's Berry Farm admission tickets for only \$9.25, a savings of \$4.75 off the regular priced \$13.95 tickets.

Time changes

Sunday's the day that daylight savings time goes into effect. Those who don't plan to be up at 2 a.m. to move the hands on the clock forward one hour should do so when they go to bed Saturday night.

On the last Sunday in October, that extra hour will reappear when the nation returns to standard time.

NEX News

There's still time for anglers to prepare for the opening of fishing season tomorrow by heading to the Navy Exchange for their supplies. The "Fish-O-Rama" sale lasts through Tuesday.

The May home sale at the NEX begins today and will last until May 2. Kitchen wares and other home items will be featured.

Movies

FRIDAY, SUNDAY	"OUT OF AFRICA"	APRIL 25, 27
	Starring Meryl Streep and Robert Redford (Romantic Adventure, rated PG, 161 min.)	
SATURDAY	"TO LIVE & DIE IN L.A."	APRIL 26
	Starring William L. Petersen and Willem Dafoe (Crime/Drama, rated R, 116 min.)	
MONDAY	NO MOVIE	APRIL 28
	IWV CONCERT	
WEDNESDAY	"THE SILENT ONE"	APRIL 30
	Starring Pat Evinson and Anzac Wallace (Adventure/Drama, rated PG, 96 min.)	
FRIDAY	"ROCKY IV"	MAY 2
	Starring Sylvester Stallone and Dolph Lundgren (Adventure/Drama, rated PG, 91 min.)	

Starting Times: Matinee / 2 pm Evening / 7 pm

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FROM _____

PLACE STAMP HERE

TO _____



Sunday show highlights Naval aviation fete

SATURDAY
6:30 p.m. — Blue Angels' Reception at the Commissioned Officers' Mess.

SUNDAY
1:00 p.m. — Opening ceremonies.
1:05 p.m. — Aerobatic flight demonstration by Bill Hickle in his Pitts S-1 biplane.
1:20 p.m. — Aerobatic demonstration by Bob Bishop in Coors Silver Bullet.
1:35 p.m. — Joann Osterud Nottke, aerobatic demonstration of her

Stevens 'Akro'.
1:50 p.m. — High performance takeoffs by T-38A Talon, owned and flown by Chuck Thornton and F-20 Tigershark, by Northrop test pilot Paul Metz.
2:00 p.m. — Aerial flight demonstration by VX-5 with Bell AH-1W Supercobra, McDonnell Douglas A-4M Skyhawk, Grumman A-6E Intruder, Vought A-7E Corsair, McDonnell Douglas AV-8B Harrier and McDonnell Douglas F/A-18 Hornet.
2:30 p.m. — U.S. Navy Blue Angels Flight Demonstration Team led by Commander Gil Rud, USN.

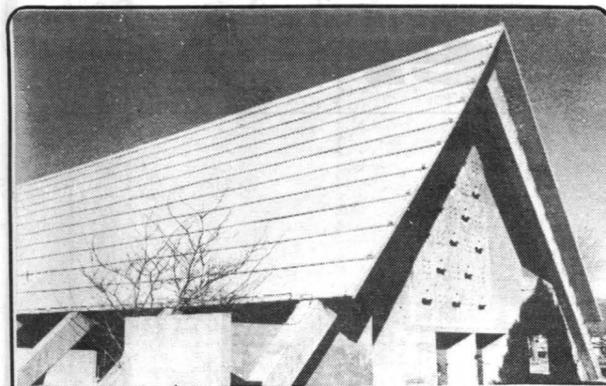


Peter Boucklin, Code 3665, hired at NOTS/NWC Jan. 31, 1955; estimated date of retirement, May 2, 1986.



	Max	Min	Peak Gust
Fri.	76	38	30 knots
Sat.	82	37	20 knots
Sun.	90	41	12 knots
Mon.	96	49	12 knots
Tues.	87	56	30 knots
Wed.	85	59	26 knots
Thurs.	81	50	32 knots

All measurements are made at Armitage Airfield.



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)	
Tuesday 7:30 p.m.	(Nursery provided) Sept. through June
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 Jason E. Knott, LCdr., CHC, USN	
Phone, NWC ext. 3506, 3507	

Red Cross hosts gathering on disaster preparedness

Honoring California's Earthquake Preparedness Month (chosen because the San Francisco quake of 1906 occurred on April 18), the Indian Wells Valley Branch of the American Red Cross hosted a disaster preparedness dinner last week at the Enlisted Mess.

Diane Grattaroti, administrative assistant for the local ARC, told those present that by staying informed and knowledgeable, everyone will be better able to survive when disaster strikes.

Dr. Glenn Roquemore, head of the Applied Geoscience Research in NWC's Research Department, noted it wasn't necessary to present a hard sell, but merely to educate local residents so they can draw their own conclusions about the likelihood of a disaster.

He described the series of quakes that had happened in California over the past century, and, especially, those that had occurred in the Indian Wells Valley and its near vicinity.

Dr. Roquemore said predicting earthquakes is difficult because all that's known about past events here is based on trenching and research that has been done; historic records for the valley don't extend very far back.

The Mexico City quake indicated much additional study was needed, he noted, because the damage there came to buildings located on a water-saturated lake bed. Much of the local terrain could be equally affected by an earthquake that occurred on the San Andreas, Garlock or Owens Valley fault systems.

D. A. Millis, Disaster Preparedness officer for NWC, emphasized individual families must prepare for catastrophic events themselves. "If we have an earthquake that is strictly local," he said, "we'll get all the outside help that we need, but if we are affected by a great earthquake in the Los Angeles basin, we'll be on our own."

He described the way lifelines (roads, utilities) are tied to that area, and added that even San Bernardino, which is actually in the basin, expects to be on its own for at least two weeks when the great quake anticipated occurs.

"No matter how much preparation NWC makes or what the City of Ridgecrest does, there'll be a lot that each family must do on its own to survive," he concluded.

Bill Cooper represented the City of Ridgecrest and described how the city was working on annexes to its disaster plan. He was followed by Nels Rasmussen, head of Region Five of the State Office of Emergency Services, who said the anticipated magnitude 8.3 earthquake in southern California would be a national calamity on an order not seen in this country since the Civil War. OES began planning how to meet such an emergency in 1980 when the Mount St. Helens volcanic eruption showed how severely an area could be affected by a natural disaster.

In answer to questions from the audience, Ron Atkins from the County of Kern said that the 911 telephone system now records all buildings in the county. He also added in a catastrophe neighbors would have to depend on each other for aid.

Lange brings years of experience to Center job

Although retiring from the government and going to work for private industry is not uncommon, Bob Lange, a mechanical engineer in the Thermal/Structures Branch of the Ordnance Systems Department, turned that around. He retired from private industry—then came to work for the Naval Weapons Center. He's been at China Lake since November 1971.

Lange's professional engineering career began in 1936, following his graduation from the University of Illinois with a bachelor's degree in electrical engineering—"there wasn't any electronics engineering then," he says with a chuckle. He says that he planned to become an electrical engineer before he had entered high school because electrical machinery fascinated him.

After spending four years with General Motors, he was recruited by Lockheed Aircraft Company in 1940 to work on the British Hudson bomber. "I was in Chicago still and thought that coming to California might be interesting," Lange adds.

His stint with Lockheed lasted from 1940 until 1946, throughout World War II, although that time was spent working as a mechanical engineer. That switch in career

field has been a permanent one, especially since he earned a master's degree in that field from the University of California at Los Angeles.

Hughes Aircraft Company was his next place of employment, one that lasted 23 years until his retirement in 1969. During his time at Hughes he worked on a number of fascinating projects, including spending five years working on the "Spruce Goose," the giant flying boat, and on a lunar landing vehicle, Surveyor.

Following retirement, he enrolled at California State College Los Angeles to study civil engineering. Before completing a degree, however, he was recruited for NWC by Bill Werback and moved to China Lake. He's remained with the Thermal/Structures Branch since he's been on board and is currently working on stress analysis for the Sidewinder Product Improvement Program.

Although Lange had not given thought to coming to work for the Navy prior to his retirement, he says that he owned a lot in the Indian Wells Valley for many years. "My wife thought it might be a good investment," he says. "I actually owned that lot in 'Rocket Town' until I moved up here. Then was when I sold it."

Lange regrets that he didn't hang onto another possession of his equally long; his 1960 Corvette. "That would be fun to have

now," he says wistfully. In any case, he lists working on automobiles as one of his hobbies.

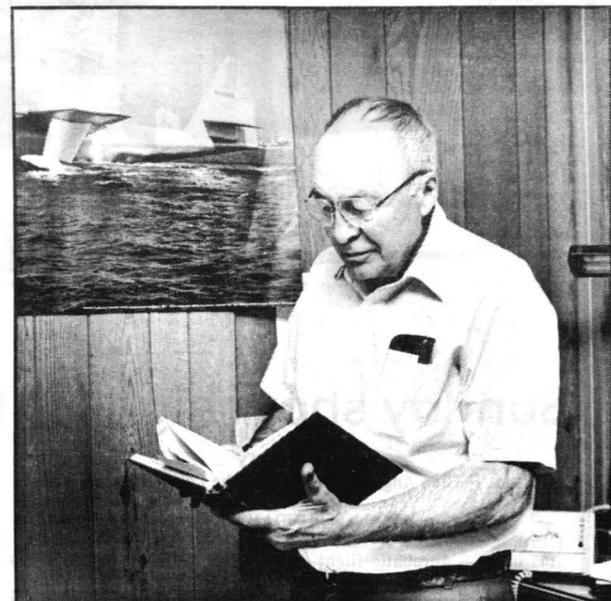
Other activities on which he spends spare time include bicycling (he rides his bike to work daily) and backpacking. Rather than going with a group, he says, he prefers backpacking by himself since he started that hobby 20 years ago because he can set his own pace.

His future plans include another eventual move. Lange's wife, Barbara, has completed law school in the Monterey area ("She was a legal secretary and got inter-

ested in the field," he notes). She has taken the bar examination and is currently awaiting the results. When she has set up a practice, he says, he will probably retire once more and move wherever she is working.

Whether future employment is on his horizon, he says he doesn't know, and he's undecided as to whether he'd prefer private industry or government.

"Industry is more schedule conscious," Lange says, "but otherwise there's not much difference between large corporations and the government."



NOSTALGIA — Bob Lange checks some data about the Spruce Goose (whose picture he proudly displays on his wall); he spent five of the 23 years he worked for Hughes Aircraft Co. working on it.

DEC maintenance contract brings special award

Patricia Rizzardini of the Information Systems Resources Division was honored with a Special Act Award recently for her contribution in awarding a centralized Digital Equipment Corp. (DEC) maintenance contract for the Naval Weapons Center.

William F. Ball, head, Information Systems Group, and Bryan L. Hill, her division head, noted this contract would, by conservative estimates, save \$3 million over the three-year life of the contract.

Hill made the presentation of the certificate and cash award to Ms. Rizzardini. In his letter nominating her for the Special Act Award, Ball said "the efforts of Ms. Rizzardini are of such consequence and the proven dollar savings to the Center are of such a magnitude that a Special Act Award is recommended."

Hill noted the contract with DEC for maintenance of all DEC systems at NWC replaced a standard General Services Administration (GSA) maintenance contract with DEC. Under the new agreement, the

Center's maintenance requirements are part of a centralized, standardized and consolidated contract with DEC.

Monthly costs for maintenance to DEC systems was cut to less than half the previous figure under the fully competitive contract awarded to DEC.

"In recognizing such individual accomplishments as Ms. Rizzardini's, the risk of failure must be factored into the determination of the degree of success achieved. Given that these DEC systems play a critical part in the day-to-day operations of the Center, the cost of failure to Ms. Rizzardini and the department was great, the incentive for success other than personal satisfaction in a job well done was small.

A side benefit to NWC from this money saving contract has been the first total, centralized inventory of DEC systems and components on-Center.

For her efforts in consolidating, competing and awarding the centralized contract, Ms. Rizzardini was given a \$3,580 Special Act Award.



SPECIAL ACT — Pat Rizzardini received a Special Act Award from Bryan Hill, head of the Information Systems Resources Division, for her efforts on a consolidated computer maintenance contract at NWC.

Youngest Scorpions bow again

Young soccer players from the Scorpions Under-14 team continue to have problems scoring goals. They were blanked 7-0 on Saturday by the Fontana Jam.

For 20 minutes the young Scorpions played Fontana a tight, even game, but then failed to make the transition from attack to defense and the Jam took quick advantage of the errors.

Three times in a 15-minute period, the Fontana squad ripped the Scorp's goal and never looked back.

Midfield efforts by the Scorpions found them winning more loose balls than any previous game, but they still were unable to penetrate into scoring territory when they went on the attack.

Spring weather fosters excellent soccer play

Last Saturday's beautiful weather apparently created more spring fever in some of the soccer teams of the Youth Soccer program than in others, resulting in a batch of lopsided scores.

Express 6, Fury 1
Vasken Haroutunian starred in this game, making four of the six goals scored by the Express. Others scoring for that team included Mathew Armstrong and Chris Potten. Jeff Janson made the sole tally for the Fury.

Aztecs 5, Drillers 0
In another lopsided game, the Aztecs outscored the Drillers due to their awesome attack, despite good plays by Doug Wilson, Heather Scott and Greg Oshel of that team. Aztec scores were made by Sean Williams, two; Miles Ross, two; and one by Ben Friedman. Scott Richison made two solo saves at goalie and Agustin Hernandez used a lot of hustle.

Sockers 3, Timbers 1
Super teamwork by the Sockers resulted in their win. Two of the scores were made by Howard Gamble (with an assist by Donnie Hill on one of these) and one by Donnie Hill, assisted by Mark Castillo. For the Timbers, Pete Byers played an excellent game both on defense and offense and Michael Frederick made the sole score.

Earthquakes 6, Cosmos 2
Although the Earthquakes played a good, all-round game, outstanding were Jason Duff, who scored three goals; Todd Redmond, who was good for two; and Kevin Campbell, responsible for one. Both the Cosmos scores were made by Andrew Grabowski. The team played well despite being outmaneuvered by three players, with Melanie Lloyd doing an especially good job.

Sting 1, Lancers 0
A fast, hard paced game on the part of

both teams resulted in only one score, made by Joe Hibbs for the Sting. New players did especially well.

Blizzard 4, Stikers 0
Four different players were able to score off passes made by John Trahey in this exciting game.

Owls 2, Cobras 1
Jason Bowling and Aaron Knecht made the scores for the Owls, with outstanding defense provided by Willie Jacobs. The sole goal for the Cobras came in the second half when Kevin Cornett scored.

Rowdies 2, Roadrunners 0
Both of the scores were made by Neil Covington, who was helped with excellent defense by Louis Moore and Mark Garland. Harley Barton's play as goalie also contributed to the win.

Chiefs 0, Coyotes 0
Excellent play by both teams, especially on defense, kept both from scoring.

Eagles 9, Apollos 0
A real scoring event. Jason Ford not only scored four goals, but had two assists and Willie Redmond is credited with a score and an assist. Other scorers were Scott Mathews, Derek Falk and two for Lucy Cordell.

Surfs 6, Sounders 0
Heads-up play on the part of the Surfs gave the opportunity to Scott Hansen to score three goals, Robin Hennings got two and Aaron Rife connected for the other one.

Tornados 2, Kicks 1
Great defense by Adam Drybread and Jason Rainwater held the Kicks to one goal as Brad Bays and Jamie Schol scored for the Tornados.

Whitecaps 7, Rogues 1
Good team play on the part of the 'Caps resulted in three goals by Derek Lindsey, three by Randy Marsh and one by Aaron Crook. A real loss to the team is Jay Frederick, who got a broken arm. The sole score for the Rogues was made by Greg Jansen, with the play of Clay Wilson and Brendan Ledden being outstanding.

Under-16 Scorpions take easy victory

Last Saturday Ridgecrest's Scorpion Under-16 team shot the Fontana Shooting Stars out of the sky with a score of 2-0.

Matt Mechtenberg opened the score for the Scorp just 10 minutes into the game on a free kick and 10 minutes later Armando Valdivia kicked the final score with an

assist by Ted Armstrong.

According to the coaches, during the second half the Scorp played a better passing game but couldn't find a way to score because of the outside trap used by the opponents.

Kenold Prince and John Piri give a lot of

Deadline nears for Heritage Week poster

Only one week remains to enter posters into the poster contest for American Heritage Week, which will be celebrated at NWC May 19 through 23. Other preparations are also underway for this week to "Celebrate the Differences."

As well as entries for the poster contest, other advance preparations include a request that the recreation committees of any departments that wish to become involved by sponsoring a food sales booth during that week get in touch with the coordinators, Melissa Dukes or Luz Lambert-Shaughnessy, at NWC ext. 2393. Ethnic foods will be sold during the lunch hour as the various events take place.

Beginning the week will be a reception and program on Monday, May 19, at the lanai of the Commissioned Officers' Mess. At this event, to which all Center personnel and their friends are invited, the annual Equal Employment Opportunity Awards will be presented. Music by the Dixieland Jazz Band will entertain guests preceding the program. Tickets will go on sale on May 4. Tuesday will be a costume day on which all China Lake personnel (including the military) will be invited to wear costumes representing their national heritage. Ethnic foods will be on sale at the headquarters lawn to add to the spirit of the day.

Wednesday lunch hour will highlight

credit to Jim Caves, Brian McCrary, Scott Hamilton and John Dykema for the outstanding defense that kept the Shooting Stars from scoring.

This win resulted in the Scorpions Under-16 posting a 5-0-0 for the season. Tomorrow's game will be at Poly High School in Riverside at 1 p.m.

Hays' fete set May 1 at 6 p.m.

Various sports events — a three kilometer fun run, a living chess game, and gymnastics at the headquarters lawn, and Thursday the same location will be the site of a variety of musical events.

The week concludes with a fine arts display on Friday at the Flight Deck of the Enlisted Mess.

The posters in the poster contest will be displayed throughout the week. Posters can be in any medium, but cannot be larger than 16 by 20 inches. They may be either serious or humorous, but should be on the general theme of American Heritage Week. Posters are due in the EEO office in the Personnel Building, 505 Blandy Ave., no later than close of business Friday, May 2.

More than 700 have already signed up to attend Burrell Hays' retirement party at Joshua Hall on Thursday evening, May 1 (because of the large number who have let the Program Coordinator's Office know they plan to attend, the party was moved from the Enlisted Mess to Joshua Hall, the largest facility in the Indian Wells Valley).

A social hour starts at 6 p.m., to be followed by presentations at 7 p.m. Name tags are being prepared by the Program Coordinator's Office, Code 0031, in the lobby of Michelson Laboratory. Those attending are asked to contribute \$5 to help defray cost of hors d'oeuvres and other party expenses.

NWC Rocketeer

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Deadlines: News Stories—Tuesday, 4:30 pm / Photographs—11:30 am

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Eastern Sierra braces for heavy angler influx

Anglers in the Eastern Sierra will benefit from an increase of 43,500 catchable-size rainbow trout to be planted in Inyo and Mono counties this year by the Department of Fish and Game hatchery personnel.

An estimated 2,043,500 two- to three-pound trout have been allotted for 70 road-side lakes, reservoirs, rivers and streams in the eastern Sierra for the 1986 season that opens tomorrow.

A curtailment in the number of fish planted last year resulted from an outbreak of whirling disease at Mount Whitney Hatchery and Black Rock Rearing Ponds and a construction project to convert outdated dirt ponds at Hot Creek Hatchery into 40, 10- by 100-foot modern and efficient concrete roadways that are now on line.

Jim Eichman, acting manager at Hot Creek Hatchery, said approximately 530,000 catchables would be distributed into Mono County waters from the hatchery this year.

Fish Springs Hatchery manager "Doc" McCormack said his hatchery personnel would release 943,000 catchable-size trout into both Inyo and Mono county waters during the year.

And Mount Whitney Hatchery manager, Jim Riley expects to release 570,000 catchables into Inyo County waters.

Trout are planted by the Department only when water quality, water temperatures and access are favorable. Many of the high-altitude waters in the Sierra may remain unsuitable for planting until well into the fishing season because of ice and snow on lakes and inaccessible roads.

Generally, though, catchable-size trout are planted in most eastern Sierra waters during the early spring through summer months.

Exceptions are Diaz Lake, the Owens River from Laws Bridge, south to Big Pine and Pleasant Valley Reservoir. These waters are planted in the fall and early

spring.

Fishing at Lake Crowley, one of the most popular waters in the eastern Sierra, will begin tomorrow (Saturday) and continue through Oct. 31. From opening day through July 31 the daily limit is 7 trout with no size limit. From Aug. 1 through Oct. 31, however, the limit is 2 with a minimum size of 18 inches in total length. During the Aug. 1 through Oct. 31 periods only artificial lures with a single barbless hook may be used for either trout or Sacramento perch.

While they are not planted with trout, it is well to note that the remaining two lakes in the Cottonwood drainage are open July 1 through Oct. 31 with a five-fish limit. Only artificial lures and barbless hooks are permitted.

Legal fishing hours are from one hour before sunrise to one hour after sunset in all Mono County waters except for Topaz Lake which is closed two hours after sunset to one hour before sunrise.

Fishing in Inyo County waters is permitted 24 hours a day.

Other seasons and limit exceptions include the upper reaches of the Cottonwood Creek drainage and Cottonwood Lakes 5 and 6, the only two of the six-lake Cottonwood group ever open to fishing.

The other four Cottonwood lakes are closed to protect golden trout spawning stock.

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Fishing in Inyo County waters is permitted 24 hours a day.



Fishing still fair at Isabella

Lots of anglers weren't waiting for opening day weekend to try their luck—they went to Lake Isabella last weekend. Many of those who dropped lines in the water also actually caught fish.

Bass were the main kind of fish being caught, with bass and trout being picked up all over the lake and around the banks. A few catfish were also taken; those trying for cats enjoyed the pleasant evening though they may not have brought back a big catch.

The most interesting fishing was in the

north fork area (around the cemetery) where trollers on Saturday were catching king salmon. Those using fluorescent needlefish were catching some salmon measuring from 15 to 21 inches (since these are thinner than trout, the big ones weighed around a pound and a half to two pounds). From the bank they were being caught with spinners and salmon eggs.

Best fishing is early morning or very late afternoon.

Department of Fish and Game personnel advise against fishing the Kern River because the water is very high and fast.

GUB retains volleyball lead

Very little change is showing in the "A" league of intramural volleyball league play at the Center gym. GUB is in top spot with a 9-0 record, followed by Mixed Co at 7-2 and VB Pounders at 7-3.

In the "B" league, BLM has taken the top

position with an 8-2 mark, and K-Z Kondor and Just-her-to-have-what nipping at their heels with 7-3 records each.

Intramural volleyball is played Mondays through Thursdays at the gym starting at 6 p.m.



PT TESTING — Sailors took time from their busy work days last week to take part in required physical fitness testing. All Navy personnel, enlisted and commissioned must take the tests.

New exercise program at gym for swimmer and non swimmer

The month of May will see a new exercise class being offered by the NWC Sports Branch, Aqua Aerobics. This class is designed for both the swimmer and non-swimmer, regardless of physical condition. All exercises will be performed in waist-

deep water and the Aquacises will help improve overall body conditioning. The class will start May 1 at the Indoor Pool on Monday and Wednesday's 9 to 10 a.m. For more information and sign-ups stop by the Center Gymnasium or call at ext. 2334.

Cosmos squeak past Scorpions

Winning on the road in youth soccer can be very difficult according to Karl Kauffman, coach of the Scorpions Under-19 Soccer Club. The Scorpions travelled to San Bernardino and bowed to the strong Cosmos 4-3.

John Placencia's 29-yard kick into the upper corner of the net opened the scoring by putting the visitors in front. Four minutes later the Cosmos knotted the score at 1-1.

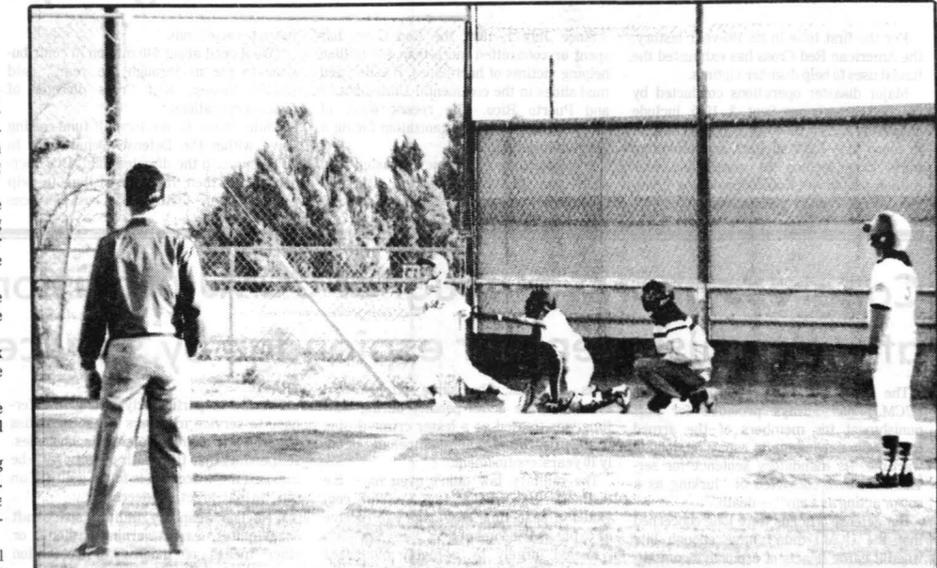
Mike Mills, with assists from Brian Collie and Scott Piri, scored 27 minutes into the first half to put the Scorpions back on top.

A penalty kick at the 37-minute mark allowed the Cosmos to tie the game before halftime.

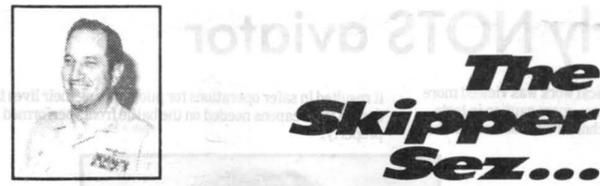
Just one minute into the second half, the Scorpions got a go ahead goal from Bill Ledden thanks to an assist by Piri.

The Cosmos wasted little time to tying the contest once again, seven minutes later. Ten minutes into the second half, the home team notched what proved to be the winning goal.

Tomorrow, Saturday, the Scorpions will host Rialto in a game set for 3:30 p.m. at China Lake's Davi dove Field. On May 3, also at 3:30 p.m., the Cosmos will be in town as the Scrops seek to turn the score around.



LITTLE LEAGUE — China Lake Little League season is now three weeks old. Games are scheduled six days a week on several diamonds at China Lake and Inyokern. — Photo by Peggy Shoaf



The Skipper Sez...

Loyalty, patriotism, moral integrity — all these are essential character traits for those who value America and what it has stood for throughout its more than two centuries of life. They are especially vital for those of us who are military and civilian personnel of the Navy.

The recent series of acts of espionage that have been discovered point out the immeasurable damage that can be inflicted by those immature individuals (regardless of their age) who are unable or unwilling to recognize the serious consequences of their acts. These acts of espionage were not motivated by ideology, but by greed. The recent addition of the death penalty for acts of espionage during peacetime conveys how catastrophic these can be and reflects the grave damage they can inflict on our nation.

We must all understand the pitfalls of being trapped into acts of espionage for a few dollars, or through unthinking acts or unwillingness to admit to mistakes or to accept responsibility for our actions. Once involved in espionage, individuals become powerless to stop such activity because they fear blackmail and the threat of public exposure and blackmail.

The threat is real. Regulations and inspections will not mitigate the threat. The only way to meet the challenge is for each of us to be aware of our own responsibility for safeguarding the classified or sensitive information that we deal with on our jobs.

"Need to know" is still the golden rule in providing access to classified information. Anyone suspecting acts of espionage has moral responsibility to report such suspicions to either the Naval Security and Investigative Command, NWC ext. 2063, or to the Director of Safety and Security, NWC ext. 3521.

But most important is that we bear in mind at all times that we are in a position of trust, and we must be especially aware of the need to maintain that trust in protecting the security of our nation.

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

2087 pay divisor reinstated

Public Law 99-272 permanently reinstates the 2087 divisor in computing hourly pay. This divisor refers to the number of hours of a federal work year for pay purposes.

Last October the divisor had to be changed from 2087 to 2080, which resulted in a slight increase in each pay check. The change back to 2087 will show a very slight decrease in each paycheck. The change is effective the pay period beginning April 13 and the difference will be noted in the May

2 paycheck. The change does not affect anyone's per annum salary.

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)



ACTION REWARDED — Jack Russell, head of the Engineering Department, presents a special act award to William Conway for prompt and decisive action taken when Conway spotted machine shop personnel unknowingly machining on asbestos-laden rocket motor material. He shut down operations without alarming personnel, notified cognizant supervisors, researched rocket motor specifications and furnished the material to cognizant personnel. His action limited the contamination of the engineering laboratory and hazardous exposure of personnel as well as cutting shop down time associated with asbestos decontamination. — Photo by PHAN Bob Reynolds



'CAN DO' SPIRIT COMMAND — Gary Ozunas and Robert Sellers receive Technical Director's Awards from Burrell Hays for their creative and hard work that helped get the Skipper missile to the Fleet in a minimum of time. — Photo by PHAN Bob Reynolds

Skipper work wins awards

Old-fashioned China Lake "can do" was credited by Burrell Hays, NWC Technical Director, in getting out to the Fleet a weapon — Skipper — direly needed to improve the survival chances of Naval aviators in a combat situation. On Monday he presented two men Technical Director's Awards for the role they had played in the program.

Receiving the awards were Gary Ozunas, an electronics engineer, and Robert J. Sellers, an electronics technician, in the Surface-to-Air Guidance Branch of the Weapons Department.

Hays said the Skipper program began in 1982 when it became obvious that Navy attack pilots urgently needed a weapon that could provide greater stand-off distance for them. The decision was made at China Lake that this need could be met by combining off-the-shelf hardware into a weapon that could get out to the Fleet in a short time period.

"A number of people here took a lot of heat for their support of that program," Hays added, "so I'm particularly glad to be able to present these awards to people who helped make Skipper possible."

The letter of nomination written by Dillard Bullard, head of the Weapons Department, credits Ozunas with designing the extremely detailed and complex microcomputer software responsible for the precision guidance capability of the missile.

The letter continues by saying that he also designed all the electronics required to modify Skipper and its variants from the basic laser-guided bomb, prepared and documented the detailed performance test specifications for the guidance section and its automated test set, developed the multi-function algorithm for the g-bias

electronics, designed the electrical and mechanical interface between the weapon and aircraft, and performed a variety of other substantive tasks to ensure that Skipper reached the Fleet in record time.

Sellers is credited with saving \$500 per unit by eliminating the gyro initiator; on the current Skipper "buy," this will save the government \$1.35 million.

In addition, Sellers is credited with designing a component that solves moisture intrusion problems, and with designing a tester that verifies whether electronics trays are properly seated and whether the mechanically-actuated gyro has been tripped. Many of these testers are now in the Fleet.

Bullard's letter concludes, "Their technical expertise, inventiveness, personal dedication and self-sacrifice of many evenings and weekends given to make Skipper a success, coupled with their bulldog tenacity in solving problems has been a key factor in providing the Fleet with a heightened level of readiness."

Hays, in making the presentation of the engraved paperweight and stipend comprising the award, said that he trusted Skipper will be "the Sidewinder of the future" — in that it, too, will also be product improved and upgraded over the years.

"It couldn't possibly have been done without good technical people," he said, "and that management had full confidence they could provide the required performance."

Both Ozunas and Sellers said that the project could not have been accomplished without the concerted efforts of not only those attending the presentation, but also the efforts of personnel in many of the Center's departments.

Security now increased

Current world conditions mandate increased security measures at all United States government establishments throughout the world.

The most visible of these increased measures taking place at China Lake has been posting of guards at NWC gates and a requirement that everyone entering the Center have a pass.

Among other visible measures that will be taken will be closer checks of personnel and vehicles entering secured areas, more spot checks of cars on board Center lands and closer looks at briefcases and packages brought to secured areas. Those handling incoming mail are also asked to examine such mail for the possibility of letter bombs.

Not only China Lake civilian and military personnel but also their dependents are asked to be suspicious of strangers asking

questions about Center operations or procedures. They should also be watchful for strange vehicles parked near buildings or packages or luggage left in an unusual location. Any suspicious person, vehicle or luggage should be reported to the China Lake police, NWC ext. 3323.

All Center personnel and visitors are asked to be patient because these increased security measures may cause delays in normal traffic or operations. The hiring freeze prevents bringing aboard additional personnel to implement some of these procedures.

And, equally, it is important not to panic. No specific threat has been issued against NWC or its personnel. The measures now being implemented are ongoing throughout the government and are apt to continue for the indefinite future.

Airfield named after early NOTS aviator

Even before the runways were cleared at the airfield being built at what was then the Naval Ordnance Test Station, the aviators stationed at China Lake prevailed on the Navy to name the new airfield after Lt. John M. Armitage.

Lt. Armitage lost his life when his SB2C aircraft crashed while he was flying a test flight of the massive Tiny Tim rocket on August 21, 1944.

Tiny Tim had an 11.75-inch case (chosen because that way salvaged oil well casing could be used—important during World War II, when materials were scarce) and used a multigrain motor with four grains, each weighing about 40 pounds. Although it had been successfully tested on the ground, the effect of the blast during an air launch was of critical concern. Different methods of launch had been considered and the decision was made to use a lanyard from the aircraft to fire the rocket.

Three tests of the lanyard drop method had gone well when Lt. Armitage dropped the fourth Tiny Tim at an altitude of 1,500 feet above ground level. The big motor ignited and the rocket sped away, but horrified watchers on the ground saw the SB2C nose into a steep dive and crash.

By pure chance, a Navy chief petty officer photographer, on a temporary assignment from the Hollywood office to make a training film, caught footage of Lt. Armitage's plane at the critical time. Analysis of the film by Cal Tech's Dr. Ira S. Bowen showed the tremendous negative gravity forces imposed on the SB2C.

In the wreckage was found a trim tab that had been moved by the shock wave from the rocket ignition and had jammed so that the aircraft had full down elevator.

As a result of the crash, technical work was viewed more closely for its human implications—more caution in tests may have slowed the pace of technical work somewhat, but

it resulted in safer operations for pilots risking their lives to ensure the weapons needed on the battle fronts performed properly.



China Lake Police Reports

China Lake police picked up a couple of visiting military personnel at the intersection of Randsburg Wash Road and Red Mountain Road at 5 a.m. and brought them back to the base. They had been partying with some pranksters who had dropped them off there rather than returning them to NWC.

When police made a vehicle stop at the intersection of Hussey and King at 2:45 a.m. Saturday, they discovered the driver was driving under the influence of alcohol. She was arrested and held for 5 hours before being cited into East Kern Municipal Court.

Officers on patrol in the Enlisted Mess parking lot saw keys hanging from the lock

in the trunk of a car parked in the parking lot. They removed the keys and went into the Enlisted Mess to find the owner. When they got back to the parking lot, the owner, who apparently had another set of keys, had driven off. The owner can claim the extra set of keys at the police station.

A military man was arrested and held for five hours when he was picked up for driving under the influence. About two hours later another person who had been a passenger in that vehicle was picked up in the same vehicle.

An ardent softball player at Schoeffel Field on Sunday hit a softball harder than he wanted to; the softball hit the windshield of his own car and broke it.

A traffic collision resulted at CLPP when someone struck a parked vehicle; moderate damage was reported.

A suspicious briefcase was found in the Engineering Building on Saturday and EOD was contacted to examine the briefcase. No explosives were found.

So far police have been unable to find juveniles who were shooting off fireworks on Essex Circle. Fireworks are illegal on NWC land.

A citizen's traffic complaint was filed at the China Lake police station. The subject was contacted and denied being in the area but, since the reporting party was willing to testify in court, a citation was issued.

Two 14-year-old girls were arrested for truancy despite their attempt to convince officers that they were supposed to be on half-day school session that week.

A non-injury accident occurred Saturday evening when a wheel fell off a 1980 Toyota pickup at Blandy and Knox. Minor damage occurred to the vehicle.

A 16-year-old who came to Murray School drunk wandered off the school grounds and was arrested for being drunk in public. He was released to his parents.

Someone from the Michelson Laboratory machine shop reported that a jacket was taken from a government vehicle that was parked in the laboratory compound.

NWC, Yockeys honored for work with IWVARC

At the 25th anniversary dinner of the Indian Wells Valley Association for Retarded Citizens, top awards of appreciation were presented to Capt. K.A. Dickerson, representing the Naval Weapons Center and to Don and Louise Yockey.

Tom Andress, president of IWVARC, told Capt. Dickerson that the group historically has had an excellent working relationship with the Center and now holds a series of contracts for services the organization's trainees can perform for the Navy. These

range from coloring computer menus to performing yard work.

Additionally, Andress said, "We've especially enjoyed our relationship with you, Capt. Dickerson and are sorry you'll be leaving."

The plaque presented to Capt. Dickerson not only included the IWVARC's words of appreciation, but also included signatures of all staff members and trainees.

A highlight of the evening was presentation of the Dr. Suzanne Hard Humanitarian Award to Don and Louise Yockey for their quarter century of commitment to caring for not only their daughter, Janice, but also for all developmentally disabled citizens through their dedication to the IWVARC.

The Yockeys were two of eight founding members of the organization. Both have continued their volunteer service in a variety of capacities since it began, Andress said.

"Don served on the board of directors and proved an asset in many other ways. Now that he's retired from his job as editor of the Rocketeer, he's been putting in even more hours," Andress continued.

"And Louise has spent an estimated 10,000 hours just as a volunteer in the Thrift Shop as well as heading bake sales, craft sales and doing almost anything and everything necessary to help the group," Andress said.

Roy Ashburn, Kern County Supervisor for this district, joined in praise of the

Yockeys by presenting them with a resolution from the County of Kern honoring them for their work with retarded citizens and for helping establish a training center for handicapped adults.

Representing the City of Ridgecrest, Councilwoman Anna Marie Bergens presented them with a seal of the City. Yockey's was set in a bolo tie and Mrs. Yockey's was on a necklace.

Mrs. Bergens added that the city's motto of "A Key to New Horizons" was especially appropriate when applied to the work that the Yockeys had performed for others.

Also on the program, Dr. Suzanne Hard, executive director of IWVARC, expressed thanks from the group to all who assisted in the organization's work, as well as expressing appreciation for their efforts to the trainees present.

New officers for the year were installed by Judge Charles Porter. These include Tom Andress, president; Gino LaMarco, vice-president; Bob Brinton, treasurer; Margy Zinke, secretary; and as members of the board of directors, Gwen Anderson, Charlotte Braitman, Pat Farlander, Gloria Delgado, John Parlet and Duke Martin.

Harry Parode, who served as master of ceremonies, noted in closing that he and everyone present joined in hoping the IWVARC will continue to grow and flourish to give developmentally handicapped people the opportunity to achieve their very best.



ADDED HONORS — Don and Louise Yockey receive seals of the City of Ridgecrest from Councilwoman Anna Marie Bergens. The Yockeys were honored for their work with the Indian Wells Valley Association for Retarded Citizens, as was the Naval Weapons Center.

C/MAC picks airman as leading military person

Taking top honors as High Desert Military Person of the Year at last Saturday evening's Civilian/Military Affairs Council's award dinner was Senior Airman Donald K. Hoff from Edwards Air Force Base.

Other contenders for the honor included Petty Officer Third Class John Linford from Air Test and Evaluation Squadron Five, representing China Lake; Senior Airman Cynthia Stone, George Air Force Base; Specialist Fourth Class Michael L. McDonald, National Training Center at Fort Irwin; and Corporal Michael S. Carson, U.S. Marine Corps Logistics Base, Barstow.

"The number one priority of the military today is people," Karen Keesling, guest speaker for the evening, told the audience. "It's professionals like these five nominees that constitute the core of our military today." Ms. Keesling, deputy assistant secretary of the Air Force (Manpower, Reserve Affairs and Installations), continued by noting that organizations such as C/MAC help the services immeasurably by recognizing the excellence of today's military personnel. Public approval is vital in bringing into the service the type of personnel that is needed, she continued.

She noted that in 1980, only 81 percent of the military were high school graduates, whereas now more than 93 percent are, and that discipline has also improved. Also up were reenlistment rate and the percentage

of personnel who plan to make the military a career.

"Challenge is what brings in the young people we need," she said, adding that with budget cuts, everyone is forced to do more with less.

"We must strive for innovation," Ms. Keesling said. The Model Installation Program has been helpful in that this permits trying out new ideas. She also noted that "We must allow people to take risks, to fail if that's what happens and yet to continue. We must be able to tap the creativity of all

personnel." Harry Parode, who served as master of ceremonies for the dinner, introduced commanders or their representatives of each of the five military bases represented in C/MAC, and the senior enlisted personnel from each who had accompanied the nominees for the awards.

He also introduced city officials and prominent citizens who helped put together C/MAC and contributed to its success.

Barbara Little from Lancaster, who chairs the organization, presented each of the winners with a check for \$500; the money was contributed by merchants, businesses and individuals in each of the communities represented.

In addition, Gerry Hucek, chairman of the military affairs subcommittee of the Ridgecrest Chamber of Commerce, presented the winner, Senior Airman Hoff and his wife with an all expense paid trip to Hawaii for eight days and seven nights.



Military News



HIGH DESERT MILITARY PERSON OF THE YEAR — Karen Keesling, deputy assistant secretary of the Air Force (Manpower, Reserve Affairs and Installations), congratulates Senior Airman Donald K. Hoff of Edwards Air Force Base on being selected as winner in the annual competition sponsored by the Civilian/Military Affairs Council.

NRS begins annual drive to fund assistance program

Sunday, April 27, marks the kick off of the 1986 Naval Relief Society Fund Drive according to LCdr. Rich Bruce, coordinator for the NRS drive at the Naval Weapons Center.

In addition to opening this annual drive at the appearance of the Blue Angels, other highlights will include the Navy Relief Fund Drive Drawing and the Third Annual "B" Mountain Run.

Last year Navy Relief spent some \$26,000 locally for emergency loans and grants. The 1985 local fund-raising effort brought in more than \$20,000. Most emergency loans provided last year were for basic living expenses or emergency transportation needs. Navy families also received loans for car repairs, medical and dental care and funeral expenses. Service-wide last

year, 81,500 sailors, Marines, retirees, dependents and survivors benefited from \$26.8 million in NRS loans or grants.

The Navy Relief Society has been serving the Naval community for 82 years, expending more than \$270 million to help members of this community through an emergency moment or give them a chance to gain financial stability.

LCdr. Bruce noted the Navy Relief Society is really people helping people, the Navy and Marine Corps helping their own.

Key persons from throughout the Naval Weapons Center will be contacting people with information of what NRS does and how individuals can donate to this cause.

China Lakers will be learning more about NRS in the weeks ahead. They can also call the local office at 446-4746 for information.

Coastal fishing great

Beautiful spring weather off the Central California coast makes a day's outing on the bottom-fishing boats even more fun now than ever. The boats leave daily from Morro Bay and San Simeon, usually at about 7 a.m. and return in mid-afternoon.

Anglers this week averaged 13 fish caught each. Most fish are rock cod, followed by bass and snapper. Biggest fish caught were better than 18 pounds each—ling cod and a golden eye—and one lucky angler caught a 17-pound king salmon.

American Red Cross exhausts emergency aid funds

For the first time in its 105-year history, the American Red Cross has exhausted the fund it uses to help disaster victims.

Major disaster operations conducted by the Red Cross since Sept. 2, 1985, include sheltering 897,000 men, women and children in more than 2,000 shelters and providing mass care feeding to more than four million people, as well as providing financial assistance to 31,365 families.

Since July 1, 1985, the Red Cross has spent or committed more than \$48 million helping victims of hurricanes, flooding and mud slides in the continental United States and Puerto Rico. The recent wave of disasters has left the organization facing a \$14 million deficit.

To restore the emergency disaster fund and erase an expected deficit, the Red Cross is now engaged in a nationwide campaign to raise funds.

"We'll need about \$40 million in contributions to get us through the year," said Robert Vessey, Red Cross director of disaster operations.

While there is no formal fund-raising drive within the Defense Department to help replenish the disaster fund, DOD personnel and their families wishing to help can contribute to the Red Cross Services

Office, 1811 Lauritsen, China Lake, or directly to Red Cross headquarters at: American Red Cross, Emergency Disaster Relief Campaign, P.O. Box 37243, Washington, D.C. 20013.

Moneys donated in the Indian Wells Valley will be retained in the IWV for disaster services.

The American Red Cross is a member agency of the United Way of IWV.

Congress approves tougher UCMJ provisions aimed at stiff punishment for espionage by service members

The Uniform Code of Military Justice (UCMJ) has always provided for stiff punishment for members of the armed forces who participate in espionage during wartime. Its mandatory sentence for service members convicted of "lurking as a spy or acting as a spy" — death.

But defense officials were long concerned that the UCMJ didn't have enough bite when it came to acts of espionage committed during peacetime. In fact, the UCMJ made no specific reference to these crimes at all.

As a result, the same offense that demanded the death penalty during wartime was treated as a lesser crime during peacetime, with a maximum penalty of only 10 years' confinement.

The military law didn't even have the teeth of federal civilian law. Civilians convicted of peacetime espionage can receive up to life imprisonment.

Fueled largely by a highly publicized rash of espionage cases, Congress recently toughened the UCMJ to allow the death penalty in some cases of peacetime espionage.

The law is particularly strong in reference to service members whose activities compromise critical defense technologies.

It specifies that the death penalty may be imposed if the accused is found guilty of an offense that directly concerns:

1. Nuclear weaponry, military spacecraft or satellites, early warning systems or other means of defense or retaliation against large-scale attack;
2. War plans;
3. Communications intelligence or cryptographic information; or

4. Any other major weapon system or major element of defense strategy.

The law, explained L. Britt Snider, DOD director of security information, reflects the message that espionage is espionage, whether it happens in wartime or peacetime.

"Any secrets compromised and any technological lead lost — even during peacetime — ultimately affects the lives of our service members and the success of our forces in combat."

Sidewinder, an air-to-air mainstay since 1956

Nearly 40 years after Dr. William B. McLean began development efforts on what was to become the Sidewinder air-to-air missile, this valuable weapon remains a mainstay of the U.S. and NATO short range air-to-air missile inventories.

Dr. McLean, who became Technical Director at what then was the Naval Ordnance Test Station (NOTS), is recognized as the father of the Sidewinder program.

A graduate of the California Institute of Technology, Dr. McLean was a lifelong gadget builder who first conceived the Sidewinder as a means to put a brain in an air-to-air missile. Only in 1951 was formal approval for Sidewinder development given to NOTS (now NWC).

Sidewinder made its first successful air interception on Sept. 11, 1953.

By mid-1956 Sidewinder 1, new and deadly air-to-air missile, was part of the Fleet inventory. Sidewinder remains there today, in much improved versions and is used by more than a dozen allied nations. It has been an amazingly long-lived missile and is still undergoing product improvement planning as scientists and engineers from NWC seek to make it even more deadly.

In 1958 Sidewinder 1A (AIM-9B) became fleet operational and was first used in combat in September of that year by Taiwanese forces. It was the first known successful use of an air-to-air infrared homing missile in actual combat.

From the 1950s through the early 1960s, more than 70,000 AIM-9Bs were built. Even today some of these remain in use in other nations.

Even before Sidewinder AIM-9B was operational, development was underway on Sidewinder AIM-9C. It was designed to intercept aircraft flying at speeds up to Mach 3.0 and at altitudes up to 80,000 feet. AIM-9C had greater range and maneuverability than its predecessor.

AIM-9C's heyday was the mid-1960s, but the missile used a semi-active homing system that has been overtaken, from a performance standpoint, by the Navy's AIM-7 Sparrow air-to-air missile. Remaining AIM-9Cs are being considered for conversion to anti-radiation Sidarm missiles by the Navy.

The infrared Sidewinder AIM-9D, released for fleet use in 1964, featured increased seeker sensitivity. This increased sensitivity was produced using a cooled detection unit, another first for the China Lake Sidewinder development team. When the next Sidewinder version comes out, the detector cooling system will have been removed, thanks to improved technology.

Sidewinder AIM-9L, developed to cope with the threats of 1980s, has been successfully used both by the United States Navy against Libyan aircraft a few years ago and by the British in their Falkland Islands campaign.

Sidewinder has progressed from the AIM-1 in 1956 to today's AIM-9M, released for full-scale production in 1981. AIM-9M is an outgrowth of the AIM-9L product improvement program initiated by the Navy in early 1976.

Improvements in the latest version of the missile (AIM-9M) include infrared counter-counter measures capability, better identification of targets against background clutter and better reliability, maintainability and producibility.

Hands-on work on Sidewinder continues at the Naval Weapons Center, in keeping with NWC technological focus. Highly motivated personnel from a cross-section of the Center take part in Sidewinder work, aided by computers and new technology.

Thanks to the continued excellence of the Sidewinder family of missiles, the versions now on the drawing board or

in conception state are expected to play a continuing vital role in the defense of the United States well into the next century.

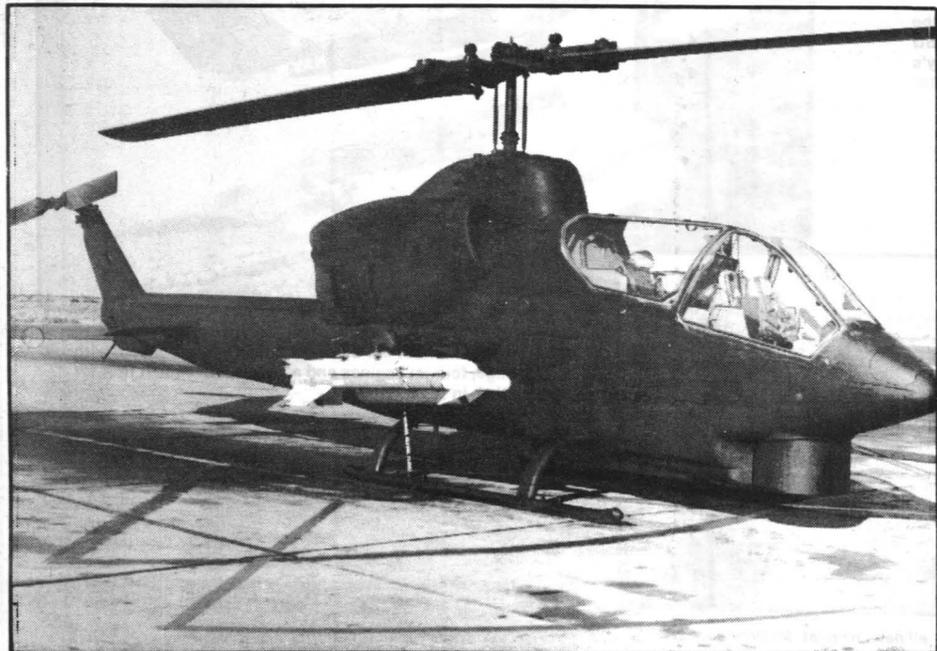
When AIM-9R is delivered, probably beginning in 1990, the United States will have an air-to-air missile with a significant improvement in target acquisition range and improved counter-counter measures performance.

AIM-9R Sidewinder will strongly resemble the AIM-9M model except for substantial improvement in the control and guidance section of the missile.

During full-scale development, expected to start this year, NWC personnel are expected to make at least 1,000 simulated test firings of AIM-9R in Center laboratories as they seek to cover the performance envelope for the newest edition of this very successful missile.



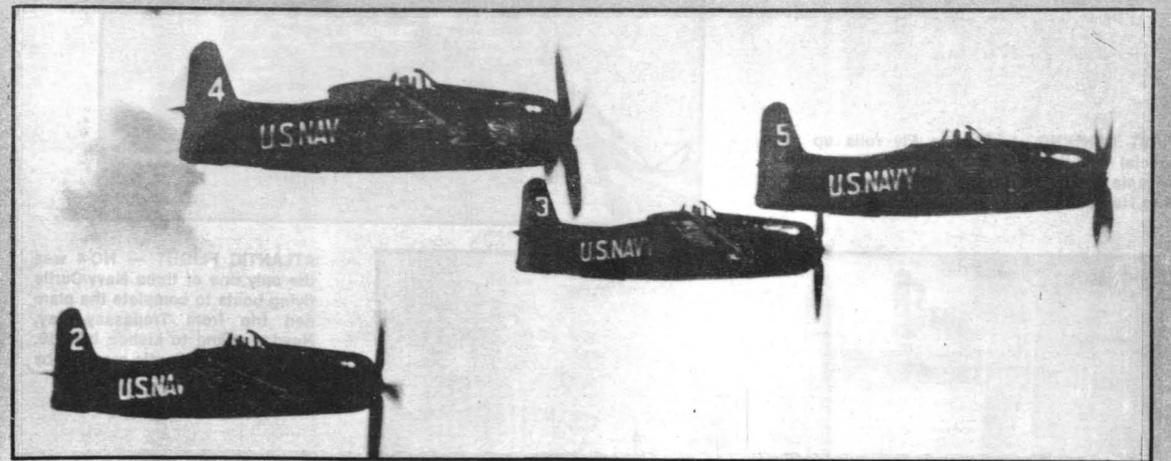
AIM-9H SIDEWINDER — In 1972 then LCdr. Tom Cook posed with an AIM-9H model of the Sidewinder in front of an F-4 Phantom as several visitors to the Naval Weapons Center had a chance to see a close up view of this highly successful air-to-air missile.



CHOPPER POWER — Twenty-five years after initial development, the Navy began tests with helicopters using Sidewinder air-to-air missiles. In 1981 tests at China Lake involved NWC's Sidewinder Program Office and AH-1 Cobra helicopters from Air Test and Evaluation Squadron Five.

NWC Rocketeer

Naval Weapons Center, China Lake, California 93555-6001



EARLY BLUES — The birth of the Blue Angels in 1946 marked the beginning of the Navy's famous flight demonstration team. Led by LCdr. Roy M. Voris, the team put on their first show at Jacksonville, Fla. F8F Bearcats were the second aircraft flown by the Blues.

Blue Angels, VX-5 top Sunday's air show slate

Excitement will begin to build Sunday, April 27 when gates to the Naval Weapons Center swing open at 10 a.m. for a celebration observing 75 years of aviation in the U.S. Navy.

Highlighting the full day of activity will be a two-hour air show featuring the Blue Angels, aircraft from Air Test and Evaluation Squadron Five (VX-5) and many privately owned planes giving performance demonstrations.

Aerial action begins at 11 a.m. with the Valley Vultures Model Airplane Club presenting a demonstration of radio-controlled models in an area south of NWC Hangar Two.

Kicking off the air show portion of the

day at 1 p.m. will be a parachute jump.

The parachutist will carry an American flag with him as the Star Spangled Banner plays on the ground.

Earlier in the day, visitors to NWC will have the opportunity to view static displays of historic and modern U.S. Navy aircraft as well as special interest antique and aerobatic aircraft. Expected to be included in static displays are the F-4U Corsair, rated by some as the best fighter developed in the United States in World War II and the dependable AD-4 Skyraider, one of the last heavy single-seat piston-engine aircraft for the Navy.

Modern attack aircraft used by the Navy will also be displayed including the newest

in the Navy inventory, the F/A-18 Hornet. In addition, the A-7E Corsair II, A-6E Intruder and A-4M Skyhawk will be displayed to give visitors a close up look.

Inside Hangar Three those attending the Naval Aviation anniversary celebration will be able to view an assortment of modern weapons technology developed at NWC over the years. These will include the High Speed Anti-Radiation Missile (HARM), Skipper, Sidarm and the missile NWC is best known for, Sidewinder.

Various NWC department, including Aircraft Weapons Integration, Research and Aerosystems Department will also have displays of technology set up in Hangar Three.

Shade from the sun and other exhibits will be available in the hangar. An assortment of food and drink will be sold by community organizations on the main ramp area, near Hangar Three. Special air show parking is available for handicapped visitors.

Naval Aviation Anniversary activities actually start tomorrow (Saturday) with a reception for members of the Blue Angels team at the Commissioned Officers' Mess at 6:30 p.m. The public is invited and a no-host bar will be available. Reservations are requested; call the COM at 446-2549. Cost is \$6 per person.

Static displays will remain open to visitors until 4 p.m.



VX-5 SHOW — Several aircraft from Air Test and Evaluation Squadron Five (VX-5), including the new AV-8B Harrier, will present a flight demonstration as

part of Sunday's air show celebrating 75 years of Naval Aviation.

Show time Sunday at 1 p.m.

SATURDAY

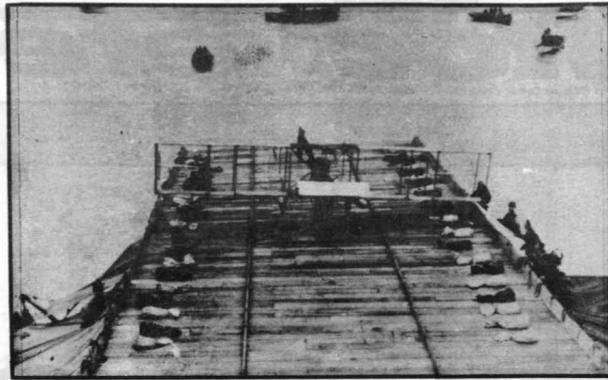
6:30 p.m. — Blue Angels' Reception at the Commissioned Officers' Mess.

SUNDAY

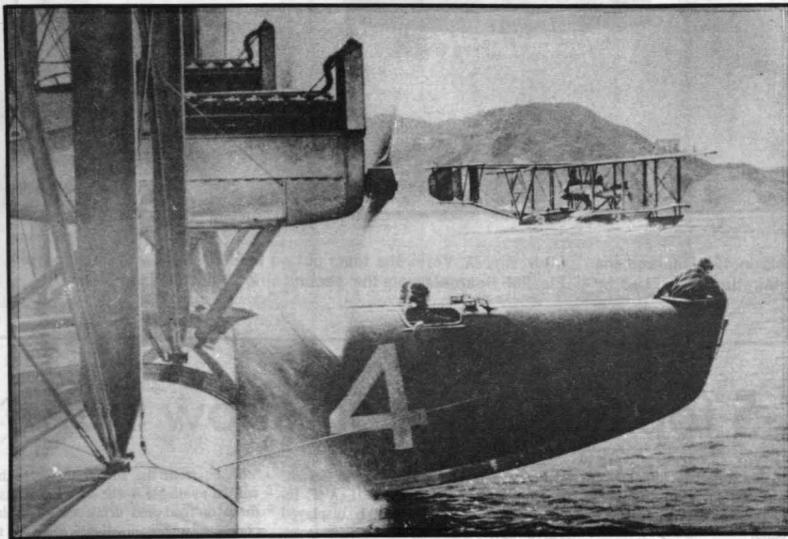
1:00 p.m. — Opening ceremonies.
1:05 p.m. — Aerobatic flight demonstration by Bill Hickle in his Pitts S-1 biplane.
1:20 p.m. — Aerobatic demonstration by Bob Bishop in Coors Silver Bullet.
1:35 p.m. — Joann Osterud Nottke, aerobatic demonstration of her Stephens 'Akro'.
1:50 p.m. — High performance takeoffs by F-38A Talon, owned and flown by Chuck Thornton and F-20 Tigershark, by Northrop test pilot Paul Metz.
2:00 p.m. — Aerial flight demonstration by VX-5 with Bell AH-1W Supercobra, McDonnell Douglas A-4M Skyhawk, Grumman A-6E Intruder, Vought A-7E Corsair, McDonnell Douglas AV-8B Harrier and McDonnell Douglas F/A-18 Hornet.
2:30 p.m. — U.S. Navy Blue Angels Flight Demonstration Team led by Commander Gil Rud, USN.

Naval aviation over the years

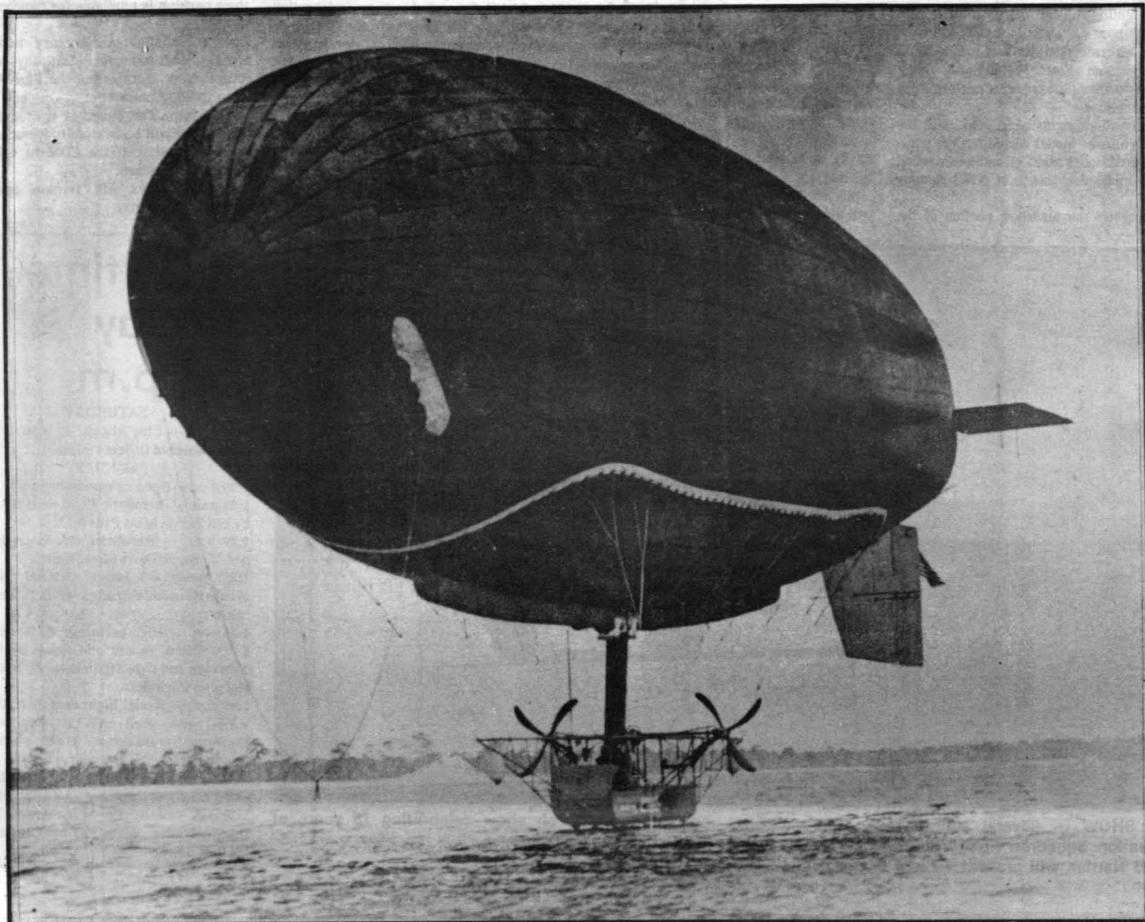
FIRST LANDING — Eugene Ely rolls up the special jury-rigged deck of the U.S.S. Pennsylvania on Jan. 18, 1911 for the first landing on a ship. He was flying a Curtiss pusher biplane.



ATLANTIC FLIGHT — NC-4 was the only one of three Navy-Curtiss flying boats to complete the planned trip from Trepassey Bay, Newfoundland to Lisbon in 1919, the first trans-Atlantic crossing by air.



LOW FLYING — Poor engines and other problems barely allowed the DN-1 to get airborne when the Navy's first nonrigid airship was launched in 1917.



Naval aviation . . .



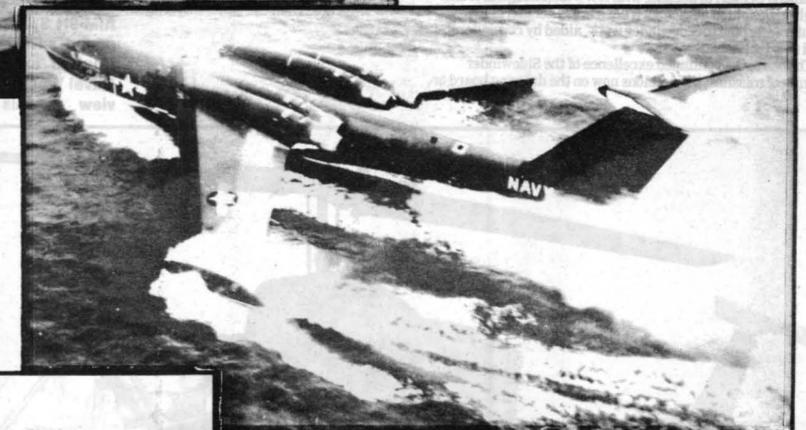
COBRA FORERUNNER — The Pitcairn XOP-1 was not only the Navy's first rotary wing aircraft, it was the first of its kind to land on a carrier. Lt. Alfred M. Pride landed on the Langley in September, 1931.



POGO STICK — The Convair XFY-1 was flown for the first time on Aug. 1, 1954 by test pilot J.F. (Skeets) Coleman. It was a forerunner of modern VTOL aircraft like the Harrier.



RUGGED AIRCRAFT — With the rear gunner ever alert, the SBD Dauntless was one of the Navy's workhorses in the Pacific Theater during World War II.



NEW SEAPLANE — While it never became operational with the Navy, the Martin P6M Seamaster was a new concept with sweptwings, four jet engines and a new hull design. It flew for the first time in 1955.



KOREAN ACTION — The all-new twin-jet McDonnell F2H Banshee joined the F9F Panther in combat during the Korean Conflict.



Personnel Development Opportunity

A LOOK AT THE FUTURE—AN OVERVIEW

28 May, Wednesday, 1300-1400, NWC Theater.

By: Dr. Jennifer James, KIRO-TV commentator.

Intended Audience: All NWC personnel.

Scope: "You're changing every day. The issue is, in what direction?" Topics include

- I. Speed of Change
- II. Changing Survival Skills
- III. Resistance to Change
- IV. Excellence
- V. Steps of Change
- VI. Risking
- VII. Barriers to Change
- VIII. A Look at the Future

Note: No training request is required.

CP/M

12-16 May; Monday, Wednesday, and Friday; 1230-1630; Cerro Coso Community College, Room 122. By: Clay Witherow.

Prerequisite: Computer literacy, some experience using a computer, or permission of the instructor.

Scope: An introduction to CP/M commands, command structure, files, storage techniques, utilities, directory tree structures, batch-file usage, and general concepts of operation.

Deadline: 29 April.

VAX-11 DBMS PROGRAMMING

19-23 May, Monday-Friday, 0800-1600, Training Center. By: Staff of Digital Equipment Corp.

Prerequisite: You must possess user skills equivalent to those taught in Digital's VAX/VMS Utilities and Commands course. You should be an experienced application programmer, preferably having at least 2 years of experience on Digital equipment in an application programming environment. Also a knowledge of database management systems to the level presented in Digital's Understanding Database Management Self-Paced Audiovisual course or DBMS Concepts Lecture/Lab course is required.

Scope: When you finish this course you should be able to describe the components of VAX-11 DBMS and their interaction; write COBOL and/or FORTRAN DML programs; write VAX-11 DBMS programs using the call interface; design VAX-11 DBMS programs; process, compile, run, and debug VAX-11 DBMS application programs; describe the life cycle of a DBMS user request; write a VAX-11 DBMS schema, subschema, and storage schema; and process and implement a VAX-11 DBMS schema, subschema, and storage schema.

Deadline: 5 May.

READING THE NIF 009 "DETAIL"

3 and 4 June, Tuesday and Wednesday, 0800-1130, Training Center. By: Hank Snell.

Scope: Designed to help you read and understand one of the most important reports produced by the Center's Navy Industrial Fund (NIF) financial system. This course covers the basic NIF concepts of cost center, accounting shop, job order structure, labor acceleration, stabilized rates, and applied overhead. The job order transaction cycle (commitment, obligation, accrual, and cost) is covered for labor; inventory issues; DES orders and contracts for material, services, and equipment; travel; cost distributions and transfers; and "bad charges." A financial report overview covers the CFM004, the CFM070, and the DES005 and other Center financial reports.

Deadline: 20 May.

BETTER BRIEFINGS

10 and 11 June; Tuesday, 0800-1600; Wednesday, 0800-1700; Training Center. By: M. Cartwright.

Scope: Addresses the three goals that most people have when they make technical presentations: (1) to communicate information effectively, (2) to demonstrate technical competence, and (3) to not appear nervous. You will learn techniques that will give you confidence in all three areas. Topics include goals for different types of presentations and audiences, organization of material, nonlinear outlining, level of detail, visual aids, making good

viewgraphs, preparations for being seen and heard, handling nervousness, delivery, and handling questions. For the final activity you will give a short presentation that will be videotaped, played back, and discussed.

Deadline: 27 May.

DONT—PREVENTION OF SEXUAL HARASSMENT CLASS FOR SUPERVISORS

12 June, Thursday, 0800-1530, Training Center. By: NWC Sexual Harassment Prevention Training Staff.

Scope: This is the Department of Navy approved "Prevention of Sexual Harassment" training course that is mandatory for all supervisors. This course includes defining sex discrimination and sexual harassment, the legal and regulatory bases, organizational responsibility for prevention, supervisor counseling skills, and other related topics.

Deadline: 29 May.

INTERPERSONAL COMMUNICATIONS SKILLS

16-18 June, Monday-Wednesday, 0800-1600, Training Center. By: S. Diestler.

Scope: Studies show that when a person communicates with another person 7% of the communication is verbal (words), 38% is vocal (tone and inflection of voice), and 55% is nonverbal. Communicating entails getting information to those who need it and listening to what others are saying. This course provides you with an opportunity to sharpen these skills. Topics include verbal communication processes and models, nonverbal versus verbal communication, effective listening techniques, empathy in communication, positive reinforcement versus punishment, conflict resolution strategies, and solving communication problems.

Deadline: 2 June.

CONFLICT RESOLUTION

19 and 20 June, Thursday and Friday, 0800-1600, Training Center. By: S. Diestler.

Scope: Few daily communications take place without some conflict or confrontation. Conflict and confrontation are necessary and unavoidable consequences of organizational communication. It is important for conflict to be handled constructively and effectively to improve the atmosphere for future communication and to resolve the present conflict. Topics include verbal and nonverbal communications, conflict and confrontation situations, response techniques, and conflict resolution styles.

Note: This class is designed as a follow-up to Dealing With People. We recommend that you have prior training in verbal communication before attending this class.

Deadline: 5 June.

INTRODUCTION TO SUPERVISION

23-27 June, Monday-Friday, 0800-1600, Training Center. By: Donna Jones.

Intended Audience: First-level supervisors needing training in basic supervisory ideas.

Scope: The class, organized into the management functions of planning, organizing, directing, and controlling, will provide you with fundamental grounding in practical modern concepts of supervision. Topics include introduction, leadership, planning and organizing, problem solving and decision making, motivation, communication, resolution of interpersonal conflicts, delegation, NWC personnel management, and a workshop summary.

Deadline: 9 June.

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

If you are a physicist, mathematician or chemist and have wanted to earn a master's degree in engineering but thought the foundation course work required would

be prohibitive, take heart! The actual number of foundation courses that you need to enable you to function at a graduate level may be only five or less, depending on your academic background. And those courses

are available locally!

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



Personnel News & Notes

No. 59 / April 25, 1986

Naval Weapons Center, China Lake, California 93555-6001

Promotional Opportunities

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

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

All applications will be retained in the vacancy announcement file; they will not be returned or filed in official personnel folders. Applications and supplements are accepted at the Reception Desk, Room 100, Personnel Department, 505 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. 09-075, Clerk-Typist, GS-322-3/4, or Personnel Clerk/Assistant, GS-203-4, Code 096/097 — Incumbent performs the following duties for a major department(s): processes all actions affecting appointments, pay setting, separations, conversions of appointment, etc.; performs competitive and non-competitive qualification ratings; performs ranking and may conduct ranking/selection panels; and drafts vacancy announcements for recruitment. At the higher levels, incumbent advises and recommends to supervisors and managers recruitment options for certain occupations (e.g., clerical); participates in various phases of crediting plan development which may include, but is not limited to, job analysis and establishing KSAs. **Elements:** Knowledge: of personnel policies and procedures related to staffing. **Ability:** to plan, organize and accomplish work independently; to perform a variety of clerical/technical functions; to research, comprehend and apply complex regulatory information. Promotion potential to GS-7.

No. 25-016, Lead Procurement Clerk (Typing), GS-1106-5, Code 25223 — Responsible for organizing and scheduling the work of the Small Purchase clerical staff as well as providing training and reviewing all work. Acts as the lead technical resource on Defense Acquisition Regulations and branch and division operating procedures. Will be responsible for coordinating implementation of the On-line Automated Supply Information System (OASIS) within the clerical working group. **Elements:** Knowledge: of procurement regulations, of small purchase clerical operations, of filing systems and files management. **Ability:** to work with automated management information systems, to deal with personnel at all levels, both on and off-center, to train clerical personnel and to organize the workload of an office. Promotion potential to GS-7.

No. 26-025, Environmental Protection Specialist, DS-028-1/2, Code 26921 — Incumbent performs laboratory water analyses. Additional functions include field data acquisition; preparation of monthly state operational reports; procurement of laboratory equipment; management of laboratory services contracts and water laboratory maintenance. **Elements:** Knowledge: of basic water analysis and laboratory techniques. **Abilities:** to communicate orally and in writing and to use water laboratory equipment. Promotion potential to DP-3.

No. 26-026, Clerk-Typist, GS-322-3/4, Code 2611 — This position is located in the Production Management Branch of the Maintenance Control Division. The incumbent

and staff. **Elements:** Knowledge: of Navy correspondence procedures. **Ability:** to operate word processing equipment. Promotion potential to GS-4.

No. 36-154, Administrative Officer, DA-341-2/3, Code 36402 — Incumbent 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 and recommendations/alternatives in resolving administrative issues; provides assistance in staffing, recruiting, and other personnel procedures. **Elements:** Ability: to conduct studies and analysis; present findings and recommendations; exercise fiscal controls over NIF system; deal effectively with people. **Knowledge:** of personnel policies, procedures and standards. Promotion potential DA-3.

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

presentation of technical material. **Knowledge:** of strike weapon systems, electro-optics, video tracking, RF data links and aircraft interfaces. Willingness to support NWC EEO policies and goals. Promotion potential is DP-4.

No. 621-004, Engineering Technician, DT-802-2, Code 62141 — This position is located in the Test Section, Warhead Test Branch, Ordnance Test & Evaluation Division, Range Department. The work of the section involves the static test and evaluation of warhead and explosives. This position supports the work of the branch in preparing the mechanical aspects of a test. Depending on complexity, the incumbent will work alone or with others in presystems or erecting arrays of Celotex and sheet steel for Warhead arena test. **Abilities:** to work safely both in field, shop, and with explosives; to work as a team member. **Knowledge:** of electricity for understanding of firing circuits, mechanical skills such as carpentry, light duty welding and cutting and familiarity with basic equipment. Must take training leading to position of Firing Officer for tests. May have promotion potential to DT-3.

No. 621-022, Electronics Technician, DT-856-1/2, Code 62143 — This position is located in the Electronic Section, Warhead Test Branch, Ordnance Test & Evaluation Division, Range Department. The work of this section involves the static test and evaluation of warheads and explosives. This position supports the branch in the setup, operation and maintenance of data acquisition electronics, timing sequencers and flash x-ray equipment. Typical equipment and devices include: Uses tape recorders, digital oscilloscopes, plotters, transducers, signal conditioning equipment and timed sequencers. Must be willing to work out-of-doors and near ordnance. **Knowledge:** of electronic instrumentation techniques. **Ability:** to work alone and as part of a team. Promotion potential to DT-3.

No. 621-004, Engineering Technician, DT-802-2, Code 62141 — This position is located in the Test Section, Warhead Test Branch, Ordnance Test & Evaluation Division, Range Department. The work of the section involves the static test and evaluation of warhead and explosives. This position supports the work of the branch in preparing the mechanical aspects of a test. Depending upon the complexity, the incumbent will work alone or with others in presystems or erecting arrays of Celotex and sheet steel for warhead arena testing. Job may require some light construction or welding. The incumbent develops special test setups and procedures for warhead testing. **Abilities:** to work safely in both the field and the shop, to work safely with explosives and to work as a team member. **Knowledges:** of basic electricity and of warhead testing procedures. Position has promotion potential to the DT-3, however, promotion potential is not guaranteed. Incumbent will be required to successfully train to qualify for position of Firing Officer for tests.

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



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. 62C-001, Interdisciplinary (General, Electronics, Mechanical, Aerospace Engineer, Physicist, Mathematician, Computer Scientist), DP-801/855/830/861/1310/1520/1550-3, Code 62C2 — This position is that of a project engineer in the Ground and Track Projects Office, T&E Projects Office, Range Department. The incumbent provides overall coordination and fiscal management of assigned test projects. Projects handled within this office include ground launched missiles and rockets, large and small caliber guns, flyover testing, ordnance and magazine effectiveness testing. The incumbent serves as primary contact between sponsors and range personnel and frequently interfaces with all levels of management at the NAVWPNCEN, contractors, other government agencies and range personnel. The incumbent translates project data requirements into range resource requirements and generates the required documentation including test plans. To apply send an updated SF-171 to George Ostermann, Code 62C2, NWC ext. 5808. Promotion potential is DP-3.

No. 39-014, Interdisciplinary (Electronics/General/Mechanical/Aerospace Engineer/Physicist), DP-801/855/830/861/1310-2/3, Code 3942 — This position is located in the Air-to-Surface Guidance Branch of the Electro-Optics Division in the Weapons Department. The incumbent will be the IR Maverick Guidance Engineer and be responsible for providing technical support for the IR Maverick Program. Knowledge of IR system, analog/digital signal processing, video trackers and software are highly desirable. The incumbent will interface with NWC and Air Force program offices, the SYSCOM sponsor, other government agencies and contractors. Previous experience with full scale engineering development and/or missile production contracts is desirable. To apply for this position, forward an updated SF-171 to Don Gay, Code 3942, NWC ext. 3341.

No. 39-015, Interdisciplinary (General/Electrical/Electronics/Aerospace Engineer/Physicist), DP-801/855/830/861/1310-2/3, Code 3942 — This position is located in the Air-to-Surface Guidance Branch of the Electro-Optics Division in the Weapons Department. The incumbent will act as the Advanced Antiship Targeting Development Program Manager. This will involve interfacing with sponsors in Washington, D.C., management at NWC and contractors. Knowledge of electro-optical guidance and imaging sensors is required. Experience with IR guidance, automatic target recognition and algorithm development is desirable. Ability to work well with others, to communicate effectively both orally and in writing and to set and achieve programmatic goals is required. To apply for this position forward an updated SF-171 to Don Gay, Code 3942, NWC ext. 3341.

No. 39-015, Interdisciplinary (General/Electrical/Electronics/Aerospace Engineer/Physicist), DP-801/855/830/861/1310-2/3, Code 3942 — This position is located in the Air-to-Surface Guidance Branch of the Electro-Optics Division in the Weapons Department. The incumbent will act as the Advanced Antiship Targeting Development Program Manager. This will involve interfacing with sponsors in Washington, D.C., management at NWC and contractors. Knowledge of electro-optical guidance and imaging sensors is required. Experience with IR guidance, automatic target recognition and algorithm development is desirable. Ability to work well with others, to communicate effectively both orally and in writing and to set and achieve programmatic goals is required. To apply for this position forward an updated SF-171 to Don Gay, Code 3942, NWC ext. 3341.

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 grade, administrative functions become predominant. At the higher levels, secretaries apply a considerable knowledge of the organization, its objectives and lines of communication. Depending on grade level, typical secretary duties are implied by the job relevant criteria indicated below.

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

Unless otherwise indicated, applicants for Branch Secretary will be rated on elements 1/2/3/5/8. Division Secretary applicants will be rated on elements 1/2/3/4/7/8/9. Program Office Secretary applicants will be rated on elements 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. 26-019, Secretary (Typing), GS-318-3/4, Code 2693 — Provides secretarial support to the Planning Branch. Promotion potential to GS-4. Previous applicants need not reapply.

No. 26-020, Secretary (Typing), GS-318-3/4, Code 2694 — Provides secretarial support to the Support Services Branch. Promotion potential to GS-4. Previous applicants need not reapply.

No. 32-210, Secretary (Typing), GS-318-4/5, Code 3242 — Incumbent provides sec-

retarial support to the Thermal/Structures Branch located in the M/L compound. Promotion potential to GS-5.

No. 622-001, Secretary (Typist), GS-318-4/5, Code 6222 — This position is located in the Track Operations Branch, Range Operations Division, Range Department at SNORT. The employee provides all the secretarial help needed at the SNORT facility. Promotion potential to GS-5, but not guaranteed. Experience on IBM PC and/or Mag Card A preferable but will train.

Recent Separations

Code	Name	Title
0836	Lang, Lori A.	Clerk
08A1	Slater, Kathryn A.	Clerk-Typist
08C2	Vitale, Loretta J.	Clerk-Typist
1411	Forrester, Bonnie L.	Budget Analyst
2635	Yousuf, Mohammed A.	Electrical Engr
26411	Barajas, Alfredo R.	Sheet/Plate Met Worker
26416	Stanton, Donald P.	Laborer
26434	Hersley, Steven H.	Laborer
26434	Tyler, Darren W.	Laborer
26921	Kane, Linda V.	Environmental Protect
3552	Hanson, Michael L.	Engrg Tech
3606	Werback, William J.	General Engr
39	Carey, Nita R.	File Clerk
3944	Peterson, James C.	Electronics Engr
3954	Hart, Richard H.	Electronics Tech
6104	Beveridge, Natalie	Secretary (Typing)
62132	Reeder, Connie R.	Electronics Mech Help

Survey Deadline May 9

If you haven't completed your Organizational Excellence Survey, time is running out. You only have until May 9 to complete your questionnaire and return it to Code 0824. Everyone is urged to complete the personal data section of the survey so that comparisons can be made. Even if you don't wish to fill out the entire section, please indicate your three-digit division code. Information obtained from the survey will be reviewed by Center management and used to improve the organizational climate at NWC. Your participation is vital if we are to receive an accurate picture of employee attitudes, opinions and morale here at China Lake.

If you did not receive a survey or need additional information, please call Lucinda Bourne (ext. 3526). Survey results will be published in the Rocketeer sometime around June 13.

New course offered

COMPUTER SCIENCE STUDENTS PLEASE NOTE — A new course has been added to the schedule for this academic year. The course is CSCI 397C: Special Problems: Workshop/Practicum on Computer Programming Management. Class will be held on June 7-8, July 12-13 and August 23-24. For more information, consult the summer course schedule advertised in "NWC Announcements" and "Rocketeer" or call Cecil Webb at NWC ext. 2648.

External degree classes offered in summer

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

To enroll in these classes (other than Cerro Coso), submit a 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 250: COMPILER THEORY (3 units)

May 3-4; May 31-June 1; June 28-29; Saturday and Sunday, 0800-1600; Training Center. By: Professor Orlando Madrigal, CSUC. Prerequisite: CSCI 151.

Scope: This course is intended as a first course in theory and the translation of programming languages. The course will cover language definition and descriptors, syntax structures, parsing, extraction of elements, symbol table construction, memory allocation, control statements, I/O lists, code generation, error detection, and diagnostic generation. Topics include introduction to compiler theory (programming languages, translator types, and arithmetic expressions and ALGOL target codes); formal languages; introduction to syntax analysis; precedence parsing; LR(0) and SLR parsing; LR(1), LALR; syntax directed translation; forms of the immediate code; code generation and optimization; run time storage management; and future research.

Text: "Compilers-Principles, Techniques and Tools." Aho, Sethi, Ullman.

CSCI 397C: SPECIAL PROBLEMS: WORKSHOP/PRACTICUM ON COMPUTER PROGRAMMING MANAGEMENT (3 units)

June 7-8; July 12-13; August 23-24; Saturday and Sunday, 0800-1600; Training Center. By: Professor George Arnovick, CSUC. Prerequisite: Graduate status, senior within 6 units of graduation, or consent of instructor.

Scope: The course is a workshop/practicum on computer programming management. Methods and analysis of programming management and software engineering, as well as structured analysis techniques (Yourdon, Jackson, Gain, and Sarson, etc.) as applied to software development are discussed. The role of the programming manager in micro-computer implementation, impact of distributed processing on programming languages, an understanding of what fourth-generation languages improve, programming productivity, research in automated development tools, is presented and discussed. Future programming aspects in fourth and fifth generation environments are discussed.

Text: No text. The instructor will provide excerpts from texts, possibly involving a charge to students to cover copyright fees.

CSCI 270: SYSTEMS DESIGN (3 units)

June 24-August 21, Tuesdays and Thursdays, 1500-1730; Training Center. By: Professor John Zenor, CSUC. Prerequisite: CSCI 171 and CSCI 172. Scope: This course focuses on the early phases of the system life

cycle: systems analysis and design. You will apply the experience gained in prior courses to the design and analysis of a system for a practical problem. Emphasis will be on the project-team approach. Readings will be assigned from the current literature in systems analysis, design, and software engineering.

Texts: "Mythical Man Month," Frederick Brooks; "Notes on the Synthesis of Form," Christopher Alexander, Harvard Press; and "Concise Notes on Software Engineering," Tom DeMarco.

CSCI 397C-2: ADVANCED TOPICS IN COMPUTER GRAPHICS (3 units)

June 14-15; July 19-20; August 16-17; Saturday and Sunday, 0800-1600; Training Center. By: Professor James Murphy. Prerequisite: CSCI 231.

Scope: This course is a treatment of advanced topics in computer graphics with emphasis on rendering three-dimensional scenes on raster displays with antialiasing, clipping, hidden surface removal, and shading. Topics include frame buffer architectures; color lookup tables; gamma corrections; Cromenco stand-alone; raster technology terminal; scan conversion of lines, polygons, and antialiasing; 30-object representation; image processing (histogram equalization, thresholding, and edge detection); 3-D clipping; polygon clipping; hidden line removal-Roberts algorithm; hidden surface removal-Warnock, Z-buffer, scan line, and ray tracing; fractal surfaces and fractal sets; texture mapping; Gouraud and Phong shading; diffuse and specular reflections; transparency and shadows; and frame buffer animation techniques.

Texts: "Procedural Elements for Computer Graphics," Rogers, McGraw-Hill, 1985, paperback (required) and "Fundamentals of Interactive Computer Graphics," Foley and VanDam, Addison-Wesley, 1982 (recommended).

PPA 530: ADMINISTRATION IN MULTICULTURAL SETTINGS (5 quarter units)

June 17-July 18, Tuesdays and Fridays, 1600-2100 (1-hour dinner break); Training Center. By: Professor Everett Mann, Jr., CSB and Professor Phillip Paris, CSB.

Scope: The theory and practice of effective management in multicultural contexts is relatively new, and is a direct result of more than 10 years of affirmative action process related to realizing a representative bureaucracy. The increased presence of ethnic minorities and women within the structures of service organizations and increased services to multicultural communities and clients have provided challenges and opportunities to management and supervisors to reassess traditional supervisory practices. This course will explore those facets of organizational supervisory practices culture which have changed or are in the process of change because of this new presence.

Note: This class fulfills the CSU Chico ethnic studies requirement and also satisfies an upper division general education requirement. However, this course does not satisfy an upper division general education requirement for the BS in Business Administration Program.

GENERAL COMMENTS

1. Textbooks are available at bookstores locally.
2. Job-related courses other than those listed above 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.

Northridge advisor here

Dr. Jagdish Prabhakar of Cal-State University Northridge will be on Center May 5 to advise current and prospective students in the external degree programs offered by the school.

Cal-State University Northridge has external degree programs in electrical

engineering, applied mechanics and mechanical engineering at NWC which lead to a master's degree.

Those who wish to see Dr. Prabhakar are asked to make an appointment by telephoning Kit Driscoll at NWC ext. 2648.

More classes slated

UNDERGRADUATE ENGINEERING STUDENTS PLEASE NOTE!

Engr. 23 — Properties of Materials (a course taught by Cerro Coso Community College and required for the BS degree in electrical engineering) will be held Tuesdays and Thursdays from 4:30 to 6 p.m. this fall.

This change in schedule was made because of the conflict with Math 6C.

The lab portions of Engr. 23 (one three-hour session per week) will probably be held Tuesdays or Thursdays after the lecture.

COMPUTER SCIENCE STUDENTS PLEASE NOTE!

CS49 — Assemblers (a Cerro Coso Community College course) will be held at the Training Center on Tuesdays, Wednesdays and Fridays from 11:30 a.m. to 12:30 p.m., July 8 through August 14.

This class is designed for those individuals who have had some assembly language experience or have had a formal course in assembly language programming some time ago. This 1-unit class is designed to prepare those individuals for CSCI 171 — Computer Architecture, which will be offered in the fall. Vic Stone is the instructor.

Personnel gives tips on filling out SF-171

The Naval Weapons Center job application process requires that a person submit a SF-171 (Application for Federal Employment) to apply for positions advertised in the Rocketeer. Since this process has been used, the Personnel Management Advisors (PMAs) have noted some areas in which SF-171s could be improved. If you take heed of the following advice from the Personnel Department, you may improve your chances of being interviewed for a position.

1. A completed SF-171 is required. A group of SF-172s (Amendment to Personal Qualifications Statement) is unacceptable.
2. Use separate blocks on the SF-171 to describe each position you have held and to describe work at different grade levels. To describe a job as "Twenty years U.S. Navy, retired as E-8, all work was in military intelligence" may result in an ineligible rating due to lack of information for many positions that such an individual is legitimately eligible to hold. Include as an occupation any military experience providing information related to the job for which you are applying. Simply listing the dates under Item 21 doesn't give credit in that time as experience.
3. When describing the work performed in each position, provide enough information so that all major aspects of the job will be clear to someone who does not know you personally. Do not describe minor points; do not try to explain how to do the work; do not use acronyms.
4. If work is performed part-time, indicate number of hours per work and length of employment (e.g., tax form preparation — 16 hours/week for three months each year during each of the last four years).
5. If you have held a job in which you performed more than one function, provide percentages of time spent working in each function (e.g., Administrative Officer: 25% Personnel; 50% Budget; 25% Management Analysis).
6. All job announcements list criteria (skills, knowledges, abilities) against which applicants who meet the minimum eligibility requirements will be ranked to determine which eligibles will be referred to a selecting official. Your application should provide enough information to determine whether you have the pertinent skills, knowledges and abilities. You are encouraged to provide a descrip-

tion, on separate sheets of paper attached to your SF-171, on how your education, training or experience relates to the skills, knowledges or abilities indicated in the announcement.

7. Sign and date the last page of the application in ink. The signature certifies the accuracy of the information in the application.

8. Provide a current telephone number and code for your present and other recent supervisors. Provide an accurate address for off-Center supervisors for whom you have worked recently. Good supervisory references can make a difference.

9. Always list the announcement number and title of the job for which application is made.

10. Pertinent attachments to a SF-171 can be useful (e.g., college transcripts, last performance rating or even a sample of writing ability if important to the position for which application is made). Remember, however, that a thick packet of attachments of only marginally pertinent material may very well detract from an application in the mind of a selecting supervisor. Don't provide copies of all training certificates and performance certificates; do, however, list them where appropriate on your SF-171 (blocks 31 and 36).

11. If you cannot write or print legibly, you should arrange to have your application typed to assure you are given proper credit for all your experience.

12. If you are applying for a supervisory or managerial position, include information on past involvement in advancing the principles of Equal Employment Opportunity. It is required that applicants for such jobs be ranked in a manner that includes consideration of performance/potential performance of duties in the EEO area.

As a final note, remember that Official Personnel Folders (Personnel Jackets) are no longer being reviewed as part of the rating and ranking process of the Center's Merit Promotion Program. If you do not include pertinent information in your application, it is unlikely the PMA or the selecting supervisor will be aware of this information. If you are unsure of the quality of your own SF-171, you may contact your PMA for other pointers for improvement.