



SERVICE HONORED — Navy Relief Society volunteers met recently to present certificates to those who had volunteered large amounts of their time. Pictured, left to right, are LaRee Jones, 50 hours; Trudy Durazo; Paula Maholchic, 300 hours; Renee Phillips, 100 hours; Carolyn Hunsicker, 100 hours; Christine Johnson, 50 hours; Polly Ferraro and Anne Powers, 50 hours. Not present for the ceremony were Michelle Pierson, who has worked 50 hours, and Florence Platzek, 100 hours. — Photo by PH2 Rick Moore

Black History Month to be celebrated

Special community observances of Black History Month are planned and all local residents are invited to attend both an open house with a soulfood supper and a special church service.

Those joining together to celebrate the role that Afro-Americans have played in the development of this country include members of the Black Interest Program Subcommittee, Union Baptist Church, Black Original Social Society (BOSS), National Association for the Advancement of Colored People (NAACP), and the Black Interest Program Manager.

The first activity planned will be an open house at the BOSS clubhouse, 1431 N. Downs, in Ridgecrest, on Saturday, Feb. 22. From 10 a.m. until noon visitors will be

able to see displays and videotapes, and at noon a children's play will be presented. From 12:45 until 1:15, there will be singing of old Negro hymns and a poetry presentation, and at 1:15, Rev. G. Hoggard and Jim Lewis of the NAACP will speak about Black History. At 2 p.m. a social hour with jazz entertainment and the ever popular soulfood supper will follow.

Menu for the supper includes fried chicken, black-eyed peas, candied yams, corn bread and fruit punch. Cost of the soulfood supper is \$5.50 per plate.

The Union Baptist Church Young Adults will sponsor a Black History Program at the Union Baptist Church on Sunday, Feb. 23. The church is located at 312 Mono in Ridgecrest, and the program will begin at 4 p.m.

Enrollment has already closed for two courses to be offered by the Training Center to be taught by Dr. Jacqueline Mitchell. The two courses are "Leadership Effectiveness for Supervisors," and "The Three Cs for Effective Team Building in the Work Setting."

Community Events

Dining, dancing at COM Feb. 21

The Commissioned Officers' Mess invites authorized patrons and guests to its upcoming Membership Night on February 21.

Dinner, consisting of steamship round of beef, scalloped potatoes, vegetables, rolls, butter, and coffee or tea, will be available from 6 to 9 p.m.

The band "Exclusive Rights" will play for dancing and listening pleasure from 8 p.m. to midnight.

The cost for this evening of fun is only \$3 per membership number and \$10 per additional ticket. Blue Club Cards are required for reduced meal price. Reservations are recommended.

Eligibility for membership at the COM includes a pay grade of GS-9 or higher, DP-2 or 3, DT-2 or 3, or DA-2 or 3. To find out the specific requirements, just contact the COM at 446-2549.

Weather Report

	Max	Min	Peak Gust	Precip
Fri.	53	28	10 knots	
Sat.	56	24	16 knots	
Sun.	57	31	19 knots	
Mon.	58	22	8 knots	
Tues.	52	24	6 knots	
Wed.	69	37	27 knots	0.10 in.
Thurs.	69	47	31 knots	0.14 in.

All measurements are made at Armitage Airfield.

All local residents and especially parents of school age children are invited to attend a meeting concerning disaster preparedness for the Indian Wells Valley. The meeting will be held at Richmond Elementary School's cafeteria (located at the corner of Kearsarge Ave. and Halsey St.) at 7 p.m. on Tuesday.

Dick Millis, NWC Disaster Preparedness Officer, and Jim Brown, NWC Fire

Auction, show of art slated

Anyone who appreciates good art, whether a collector or just interested in decorating a home or office, shouldn't miss the upcoming Art Auction and Exhibition presented by WACOM on Friday, February 28, at the Commissioned Officers' Mess.

This exclusive exhibit provides a fun-filled, cultural experience that is professionally conducted. Prints, lithographs, original oils and drawings by award winning artists such as Kelly, Rockwell, Delacroix, David Lee, Dali, Alvar, Boulanger, Chagall, Picasso, Miro, and many others will be presented. Each certified, custom-framed work of art carries a fifteen year exchange guarantee.

Patrician Premium Collection offers a spectacular varied selection that exemplifies Patrician, including 99 works of art to sell at \$99 or less.

A preview of the work being shown will begin at 6 p.m. While browsing around, enjoy some superb wine tasting and cheese.

Hourly door prizes will be offered, with two major prizes being valued at \$500 and \$1000 each.

The auction will be conducted by Patrician Galleries, and will begin at 8 p.m. The Patrician Investment Club will be available on purchases of \$500 or more, with no interest charged.

No one should miss this rare treat.

Dance planned

VFW Post 1950 in Trona invites anyone who'd like to attend a Valentine dance to their post tonight, starting at 9 o'clock. Dancing will be to the music of Haywire, a country-rock band. Entry is \$2 per person.

NEX News

If weather permits, the Navy Exchange retail store will continue its sidewalk sale today. The Presidents' Day sale, which began on Wednesday, continues, and a special one-day sale will be held next Tuesday for all bargain hunters.

Details on sale specials can be found in the Presidents' Day circular at the NEX.

Movies

FRIDAY, MONDAY	FEBRUARY 14, 17
"INVASION U.S.A." Starring Chuck Norris and Richard Lynch (Action/Drama, rated R, 108 min.)	
SATURDAY	FEBRUARY 15
"PEE WEE'S BIG ADVENTURE" MATINEE Starring Pee Wee Herman and Elizabeth Daily (Comedy, rated PG, 90 min.)	
SATURDAY, SUNDAY	FEBRUARY 15, 16
"PEE WEE'S BIG ADVENTURE" Starring Pee Wee Herman and Elizabeth Daily (Comedy, rated PG, 90 min.)	
WEDNESDAY	FEBRUARY 19
NO MOVIE	
FRIDAY	FEBRUARY 21
"PLENTY" Starring Meryl Streep and Charles Dance (Drama, rated R, 124 min.)	
Starting Times: Matinee / 2 pm Evening / 7 pm	
(G) ALL AGES ADMITTED General Audiences (PG) ALL AGES ADMITTED Parental Guidance Suggested (R) RESTRICTED Under 17 Requires Accompanying Parent or Adult Guardian	
* U.S. Government Printing Office: 1986 - No. 20042	
FROM:	PLACE STAMP HERE
TO:	

Soldering/Manufacturing seminar planned

More than 700 persons from government and private industry are expected to attend the Naval Weapons Center's 10th Annual Soldering/Manufacturing Seminar when it opens at the Station Theater on Wednesday, February 19.

Capt. K. A. Dickerson, NWC Commander, will welcome those attending, while Harold G. Peacock and Chris R. Peterson of the Center's Engineering Department will introduce seminar participants and present an overview of the goals for this annual event.

This seminar promotes open exchange of information on all issues of soldering technology and electronics manufacturing.

Peacock, head, Electronics Manufacturing Program Office and Peterson, head, Soldering Technology Branch, note the proceedings at NWC "provide a forum for all persons involved in this technology, whether from government, industry or academia. We can openly discuss these issues and share our ideas. Here, we can work together toward our common goal — to improve the U.S. electronics industrial base."

At least 17 papers will be presented by leading experts in soldering technology and electronics manufacturing during the two-day seminar. In addition, at least six technical briefs will be presented. These briefs, a new feature this year, will be limited to 10-minute presentations and are designed to give attendees an overview of the applied manufacturing technology.

Papers will be presented on topics ranging from surface-mount technology to automation in inspection and defect analysis to the Navy's soldering training program.

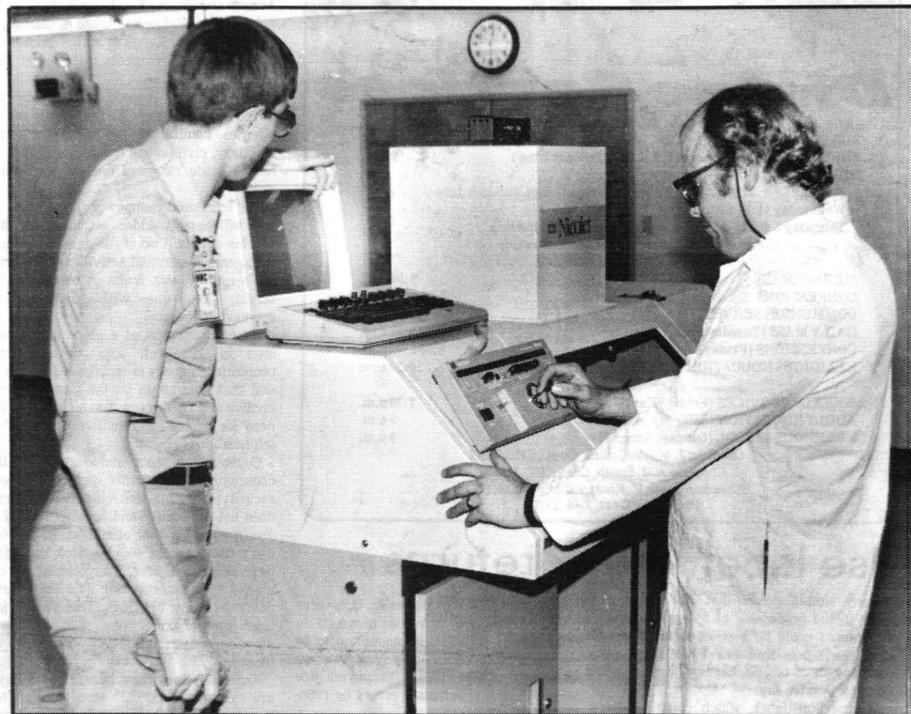
At the Feb. 19 banquet, John Martin, Boeing Electronics Corp. Vice President, will be the featured speaker, highlighting the day's events.

NWC personnel are encouraged to attend seminar sessions and do not need to register in advance. Attendance will earn training credit for Center employees.

The Wednesday schedule includes: 8:50 a.m. David Yenawine, Texas Instruments, "Artificial Aging and Component Solderability;" 9:30 a.m., Mark Shireman,

Honeywell Defense Systems Division, "Enhancement of Component Lead Protective Finishes for Wave Soldering;" 10:30 a.m., J. Gordon Davy, Westinghouse,

"Wetting Balance Solderability Testing of Electronic Components at Receiving Inspection;" 11:10 a.m., Roger N. Wild, IBM
(Continued on Page 7)



INSPECTION SYSTEM — When participants in NWC's 10th Annual Soldering/Manufacturing Seminar take informal tours of the new Electronics Manufacturing Productivity Facility (EMPF) they will see a wide

range of equipment such as this Nicolet X-Ray Inspection System. Mike Frederickson (left) and Jacron Crook of Code 3608 prepare to test the system. — Photo by Leon G. Biesiadecki

Versatile T-39 provides NWC project support



TEST ASSISTANCE — Flying in formation with an Army MC-130, NWC's T-39 Sabreliner supported Army staged parachute testing last

year. The T-39 is on call for many types of project support.

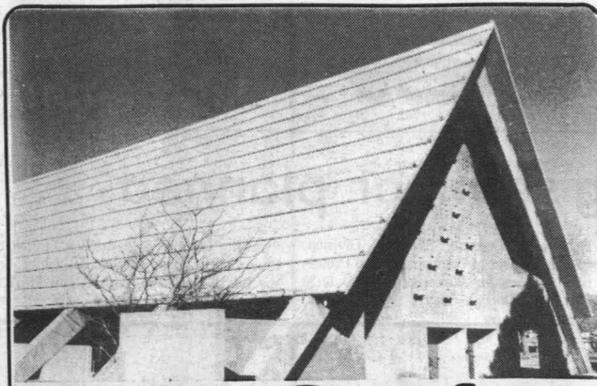
Not only is the T-39D Sabreliner capable of hauling passengers, it is frequently used as an airborne test instrumentation platform. The T-39D is one of the most versatile aircraft in the Naval Weapons Center inventory.

The T-39 can be fitted with a variety of instrumentation, including a 16-mm motion picture camera, a charge-coupled device television camera, various radiometers, data recorders, monitors, and associated equipment. Three specially designed windows incorporating quartz and silica panels allow simultaneous measurements in several spectral-band observations in flight. For example, spatial infrared signatures of aircraft, subscale target drones and infrared augmentor devices can be measured and recorded using this unique capability.

NWC's T-39 has also been modified to mount a generic missile front end on the aircraft nose. Although it looks funny, and does nothing good for the aerodynamics, this mounting allows NWC personnel to evaluate performance of modified, updated or new guidance devices in tests prior to production. Cost efficient testing is always a plus. Condor, Harpoon, and Sparrow seekers were all test flown on this platform.

Photographers take advantage of the T-39's clear photographic window. As an example, the U.S. Army Airborne Board, Fort Bragg, North Carolina, employed NWC's T-39 during their "sequenced" or "staged parachute" development. This required the T-39 to maneuver in formation with an Air Force MC-130. The sequencing of the parachute was designed to reduce the opening shock to a soldier or his equipment during a 250-knot indicated airspeed (KIAS) drop. The telemetry from the non-articulated mannequins indicated there was a problem. NWC came to the rescue with the Sabreliner and photographic window. The parachute opening shock effect was verified

(Continued on Page 7)



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 9) 9 a.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

NSIC expands activities at Naval Weapons Center

That an increasingly vital role is being taken by Special Agents of the Naval Security and Investigative Command (NSIC) locally is highlighted by their recent increase from two to four Special Agents (plus a secretary), their administrative change from being a Resident Unit to becoming a Resident Agency, and their move to new quarters at the north end of Building 00451 at the intersection of Blandy Avenue and Hussey Road.

John Hopeck, Special Agent in Charge, is pleased by the change in status because it denotes that NSIC meets both Center and Navy needs.

"As agents," Hopeck comments, "we have two prime roles. We investigate major offenses committed by naval personnel (military, civilian and contractors), and we have a wide range of counterintelligence work."

The increased manpower in the local office will permit added activities for him and his agents. Two of the agents will deal with general criminal activities, one agent, deals mainly with fraud or conflict of interest, and one will specialize in counterintelligence.

Hopeck says that at a place whose mission is research and development, counterintelligence is especially important, and that awareness on the part of every civilian and military person on board of the need for protecting sensitive or classified information is essential.

Counterintelligence includes raising the consciousness of Center personnel about security, ensuring that classified material does not go adrift (and investigating if it does), ensuring that unauthorized persons don't have access to classified material, technology transfer, terrorism, threat assessment, investigating overflights, and doing defensive briefings. These are briefings for personnel who plan to travel abroad either on Navy business or pleasure.

Especially important here, Hopeck says, are "contact reports," when foreign nationals make contact with local personnel.

These, no matter how insignificant or friendly they may seem, should be called to the attention of Hopeck or his agents by phoning the office at NWC ext. 2063.

That same number can be used by anyone who has any questions about NSIC operations, or who would like to talk to an agent about a possible problem. ("We'll protect the identity of a caller," Hopeck says. "We'll also respond to anonymous callers, provided they give us enough information so that we can proceed with an investigation.")

Growth in NSIC personnel and functions at NWC represents what has been happening with the agency throughout its far-flung operations. During the last five years the number of agents have nearly doubled to more than 1,000 world-wide. The only way, says Hopeck, that it can meet its obligations is that it works closely with other law enforcement agencies.

Headquartered in Suitland, Maryland, NSIC began as a small undercover Naval intelligence investigative unit in 1916. From that beginning, its mission has grown to encompass "Under the Chief of Naval Operations, to maintain, command, and operate a world-wide organization to fulfill the investigative, law enforcement and physical security, and counterintelligence responsibilities of the Department of the Navy (less those combat related counterintelligence matters within the functional responsibilities of the Marine Corps)."

Hopeck reiterates that all these operations depend on one essential — that every Navy employee — military and civilian — maintains a high level of and acceptance of personal responsibility to protect the nation from enemies from other nations and from dishonest or dishonorable persons within its borders.

Health tip

Every day, smoking-related diseases account for nearly 900 deaths. Fires from cigarettes cause 2,300 deaths annually.

federal income taxes. However, taxpayers should be consistent. If you do round off do so for all amounts. Drop amounts under 50 cents and increase amounts from 50 to 99 cents to the next dollar. Taxpayers are likely to make fewer math errors by rounding off.

Use label for tax returns

Many simple errors that can cause a delay in the processing of federal income tax returns could be avoided if taxpayers used the labels and envelopes that accompany their tax packages, the Internal Revenue Service says.

The peel-off label, which contains the taxpayer's name, address and social security number, is designed to expedite processing at IRS service centers and prevent common errors that can delay issuance of refund checks.

A common misconception is that using the peel-off address label will trigger an audit. Actually, coding on the label identifies the taxpayer and the kind of forms contained in his or her tax package. It does not in any way indicate the return should be audited.

One of the common and yet most troublesome errors that can be averted by use of the label is the listing of an incorrect or illegible social security number.

The IRS advises taxpayers to use the label, even if corrections are necessary. For example, in the case of a change of address, the correction should be made directly on the label.

Errors can also be averted if taxpayers use the special pre-addressed envelope, which speeds sorting of tax returns during the annual deluge of mail that arrives at the 10 IRS service centers.

IRS also advises taxpayers to round off cents to the nearest dollar when figuring

Terry Downs new NWC Ombudsman

Terry Downs, wife of AMHC Art Downs, has been selected as the new Ombudsman for Naval Weapons Center military families. She will take over her new duties today.

"My job is to serve as liaison between the military family and the Center," she says. "I'm here to provide someone to talk to, someone to provide advice about whom to see with a problem. Also, if someone has a problem that needs to be taken to Command but that person doesn't feel comfortable about going to Command, I will do that."

Mrs. Downs says that she hopes those who call here won't be put off if they find they are talking to an answering machine because she does not want to miss any calls when she is out on Ombudsman business or at work. Her number is 446-4751.

"I've not had the opportunity to be very active in Wives' Club affairs since my husband and I were married," she says, "although I did belong when we were at

Barber's Point, Hawaii, because there I was working full time. When my husband was on recruiting duty at Minot, North Dakota, and at North Platte, Nebraska, there wasn't any Wives' Club for me to join."

She is working full time again here (at K-Mart), but has erratic hours. This, plus taking care of their two sons, Tod, 5, and Rodney, 4, keeps her busy.

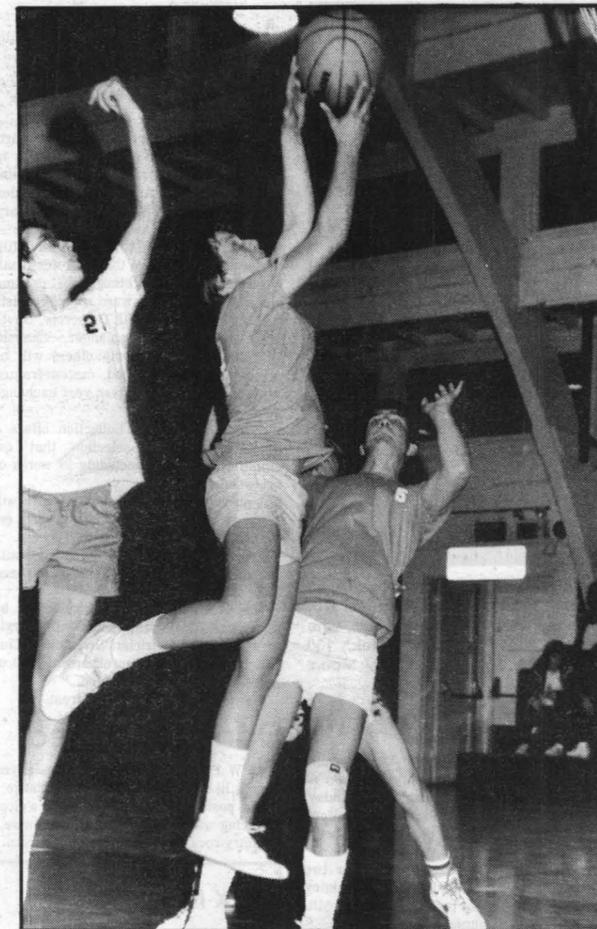
Living in the desert is not a new experience for her. Mrs. Downs calls Logan, New

Mexico, home ("It's about 24 miles from Tucumcari," she says, "way up in the northwest part of the state.") her husband's family lives in Denver, so they are able to visit both families easily when they go to visit either one.

"I'll be in San Diego part of next week" Mrs. Downs says, "for additional training for being the Ombudsman. I look forward to the training — and to being able to be of service to the local military families."



GOOD LISTENER — Terry Downs is the new Ombudsman for military families at the Naval Weapons Center. — Photo by PH2 Rick Moore



SENIOR DIVISION — Athletes in the Youth Basketball League's Senior Division go after a score in action this week. Play in the four division league continues through the week of March 10.

Recreation hoop loop action continues

(Continued from Page 6)

winners while Richard Staples added 13 markers. Kriz Meraz notched 16 points for the Kings while James Dawson added six tallies in the loss.

Bullets 59, Clippers 43

In the highest scoring game of the week,

the Bullets used a 34-point performance by Chris Armstrong to batter the Clippers. Tom Mean chipped in 12 points for the winners. Wade Boyak's 27-point effort led the Clippers in the loss. The Bullets outscored the Clippers 23-9 in the third period to put the game on ice.

Seminar expected to attract 700 persons

(Continued from Page 1)

Corp., "Component Lead Solderability versus Artificial Steaming;" and 1 p.m., Joseph Sylvester, Omni Training Corp., "Quality Through Training."

Also on Wednesday afternoon: 1:40 p.m., Donald J. Strittmatter, Hughes Aircraft Co., "Proposed Standard for Magnifying Power of Visual Magnification Aids/Devices and 'Hughes Magnascope' Calibration Instrument Description and Use;" 2:40 p.m., Norman MacLeod and Larry Hoover, Federated-Fry Metals, Inc., "Surface Mounted Devices—Factors Affecting the Adhesive Properties of Synthetic and Rosin-Based Solder Creams;" 3:20 p.m., Mike Juha, IRT Corp., "Automated Inspection of Surface Mounted Solder Connections: A Status Report on a First Installation;" 4 p.m., Edmund Westcott, Technical Director Air Force Systems Command Product Assurance and Acquisition Logistics.

Martin will speak at the banquet, set for Wednesday at 7 p.m.

Thursday speakers include: 7:45 a.m., Alan L. Geiger, Union Carbide, "Solderability of Capacitor Lead Wires;" 8:25 a.m., John A. DeVore, General Electric, "Solderability Defect Analysis Simplified;" 9:25 a.m., Frank Zado, AT&T Technologies, "Solder Defect Mode Analysis Under the 'Zero' Defect Concept;" 10:05 a.m., Linda A. Lauer, Martin Marietta-

Orlando Aerospace, "Dynamic Mechanical Testing of Solder and Solder Joints;" 10:45 a.m., Larry R. Lichtenberg, Motorola Inc., "Statistics, Designed Experiments, and Printed Wiring Board Assembly;" 11:30 a.m., Bill Kenyon, E.I. Du Pont Freon Products Laboratory, "Benefit of Post Electroless Copper in Line Displacement Drying (brief);" 11:40 a.m., James Streeter, Norden Systems, "Soldier Joint Laser Inspection System Industry Briefing and Status (brief);" 1 p.m., Todd LaMarche, Nicolet Instrument Corp., "Real Time Automated Inspection of SMD Solder Joints;" 1:40 p.m., Mike G. Buffa, Machine Vision, International, "Circuit Card Assembly Inspection of Surface Mount Components;" 2:40 p.m., William E. Sake, NWC Soldering Technology Branch, "Navy Soldering Technology Training Program;" 3:20 p.m., Dr. Ahmet Arslan, "Infrared Solder Reflow Field Data (brief);" 3:30 p.m., Victor Sedrick, Hollis Automation, "Single Pass Soldering of Two-Sided PAW's with SMC's (brief);" 3:40 p.m., Neal Hart-selle, Litton Guidance and Control Systems, "Laser Inspection of Solder Joints Interpretation of Thermal Signatures (brief);" and, 3:55 p.m., Ernie Renner, Office of Naval Acquisition Support, "Best Manufacturing Practices (brief)."

Pismo has clam cookoff on Saturday

Pismo Beach's annual clam chowder cook-off will take place tomorrow from noon to 3 p.m. Admittance and samples are free to the public and everyone is invited to attend.

The affair will be held at Pismo Coast Village, a recreation vehicle resort in this town that calls itself the clam capital of the world. A \$5 entry fee includes a specially designed T-shirt. Both commercial and non-commercial entries are accepted, with contestants having to furnish all their cooking equipment and supplies. Ingredients must be fresh, prepared from scratch, and a minimum of one gallon of chowder is required for each entry.

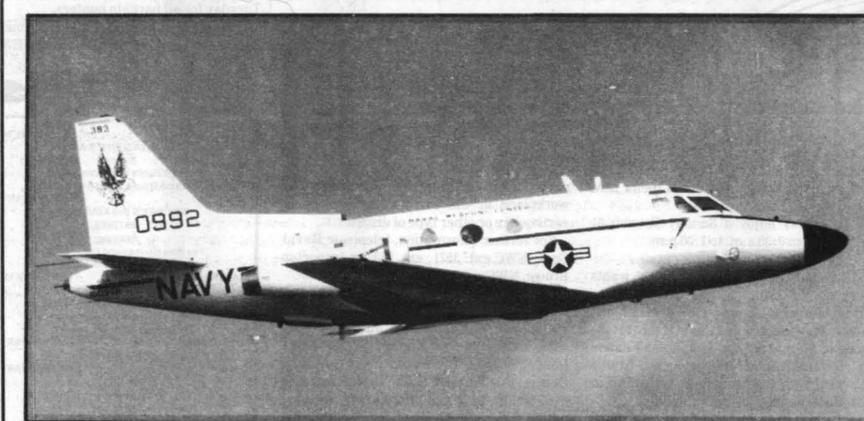
Pismo Beach is located south of Morro Bay on Highway 101.

Hotel chain offers rate

A major hotel chain is offering special rates to all federal government and U.S. military employees.

Holiday Inn, and its more than 950 hotels, is sponsoring the program. The rates are based on government per diem guidelines and can be obtained by calling Holiday Inn's "Holdidex" reservation toll-free number, 1-800-HOLIDAY. Everyone must show their I.D. Card when checking in to qualify for the government rates.

"Holiday Inn recognizes the importance of the government market, which spent approximately \$1.7 billion on hotel rooms in 1985," according to Wayne Wielgus, director of Intermediary Marketing for Holiday Inn. The special rates are in effect through December 31, 1986.



SABRELINER — NWC's T-39 Sabreliner is unique as a test bed aircraft for the Center. Included in its special features is an optically clear window for cameras.

T-39: A very versatile aircraft

(Continued from Page 1)

with 400-frame-per-second, high-speed motion picture film shot through the photographic window.

No other aircraft at NWC can be configured to be as versatile a flying laboratory as the T-39. Capable of attaining speeds of 350 KIAS and keeping up with more modern aircraft, the T-39 twin-jet has room for not only test instruments, but also the personnel to monitor and perform the tests. As a test bed capable of accommodating personnel to monitor and operate equipment in flight, the T-39 has no equal at the Center.

Last year two NWC engineers spent their flight time in a somewhat cramped passenger compartment at White Sands Missile Range. The MQM-34D enhanced subscale IR target

signature data was being collected for the US Army Missile Command. The instrumentation involved pushed the T-39 close to its maximum gross weight. The T-39 was capable of rendezvousing and keeping up with this ballistically launched, remotely piloted target during the flight maneuvers required to complete the test program.

Bary Thompson, an IR test engineer commented "We sure got our money's worth. Because the T-39 could be quickly configured to accommodate a unique set of instrumentation the project was inexpensive and timely. And our sponsors were pleased with the reasonable T-39 flight-hour rates."

Hall Memorial Lanes offers bowling specials

Lunch time bowling specials will start at Hall Memorial Lanes on board the Naval Weapons Center on Tuesday.

Monday and Wednesday specials are two games for the price of one while Tuesday and Thursday bowlers will receive a free game if they come in groups of two or more and on Friday, any snack bar purchase of

\$3 or more will be worth a free game of bowling. These specials are good 11 a.m. to 2 p.m. Monday through Friday.

Group specials have also been planned for the younger set. Bowlers 17 years of age and under can bowl for just 50 cents per

game Monday through Friday from 3:30 to 5 p.m. For details on the bowling specials at NWC call Hall Memorial Lanes at NWC ext. 3471.

Bowlers at NWC can also take part in tomorrow's (Saturday) Scotch Doubles Sweetheart Tournament. The tourney costs \$12.50 per couple and the top 10 finishers will win prizes ranging from bowling bags to free games of bowling.

Call Hall Memorial Lanes for additional information.



Sports

Soccer refs still sought

Referees are needed for the spring youth soccer league sponsored by Recreational Services Department's Youth Activities Branch. Anyone interested in learning more about soccer and assisting experienced soccer officials is asked to call the Youth Activities Branch at NWC ext. 2010 and 2081.

Kern anglers plan outing

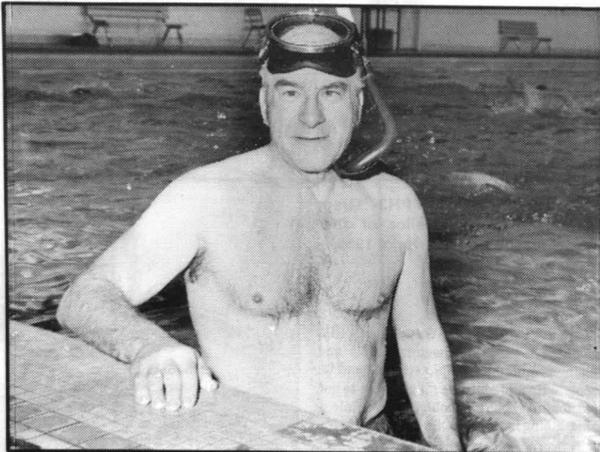
Kern River Fly Fishermen will hold a monthly fishing outing on Sunday, Feb. 23, at the Kern River, north of Lake Isabella. Anyone interested in fly fishing is welcome to attend at no charge.

Further information can be obtained by telephoning Jack Porter, (805) 832-9344.

Gym work closes room

Due to renovation work to be done in the women's dressing area at the Center gymnasium, the area will be closed to everyone during the week of March 3 through 8.

Further information can be obtained by telephoning the Sports Office at NWC ext. 2571 or 2334.



MILE-A-DAY — When Dick DeMarco began swimming on a regular basis as therapy for a back injury, little did he realize how many years he'd keep it up. Last week Dick hit the 1,000 mile mark at the NWC Gym pool. He says he swims a mile each day (54 laps of the pool) and has been doing it on a regular, recorded basis since 1972. He has been swimming at NWC since 1954, but notes he never kept track of distances before. A decision to mix three miles of running each day with his swimming slowed down his march to the 1,000 mile plateau. "It's a great way to keep your body tuned," said DeMarco, head of Ordnance Systems Department's Weapons Systems Branch "B".

Isabella, Owens River anglers find good fishing

Lake Isabella rose rapidly two to three feet last week as the winter storms passed through the valley. The mornings are calm and afternoons are cold and windy.

Numbers of large bass are being caught by locals and visiting bass clubs. This month will provide some of the best bass fishing of the year.

Currently the bass fishing is either near excellent or very slow, and the reason is the weather. A temperature change of just a few degrees can determine whether the fish are feeding aggressively or lying quietly.

The bass tend to be slow and immobile in cold water. Some areas of the lake warm

faster than others, and anglers will do best concentrating on the western and southern shores that the sun hits first.

Anglers fishing the southern shores, Rocky Point, Lime Dyke, and Stine Point are doing consistently well. On the northern shores fishing has been fair, Rocky Point, Camp Nine, and Piney Point.

Bass are most active on warm days, and live baits (nightcrawlers, waterdogs, crawdads) are working best. Remember the bass limit is five, and harvesting too many can do real damage to the breeding population.

Large trout and salmon are being caught

throughout the day. Anglers are fishing at French Gulch, Main Dam, Auxiliary Dam, launch areas 17 and 19, Piney Point, Kissack Cove, Stine Cove, and Camp Nine. Most fishermen are using nightcrawlers, salmon eggs, and cheese. The average trout being caught weigh between two and three pounds.

Anglers are concentrating their efforts along shore where the bank or rock ledges drop off quickly into deep water. Boat fishermen are picking up a few trolling (surface, leadcore) in the same areas using lures that imitate the shad.

There can be long waits between the ac-

tion, but the reward can be great!

Fishing in the Owens River has been slow lately, but has picked up in the area between Stewart Lane and Chalk Bluffs because the Department of Fish and Game has made its annual plant of brood stock.

Many of the planted trout weigh in excess of 3 pounds. They should be biting well by this weekend.

Anglers who like to fish up north are looking forward to the opening of the Southern Sierra season on March 1. On that date, also, is the annual "blind bogey" fish derby at Pleasant Valley Reservoir.

Top Bowlers

Continuing to roll along, Jones' Mobile bowlers retained their hold on first place in the Premier Bowling League with a 255½-124½ overall record. Buggy Bath keglers are second with a 224-156 record while Elks Lodge bowlers are in the third slot sporting a 202-178 record.

Individual honors this week went to Larry Jeffrie with a 254 game and Ernie Lanterman who combined a 223 game with a 610 series.

Team action found The Thrive with a 774 high team game and Place Wash with a 2202 high team series.

Team	Standings	W	L
Jones' Mobile	255½	124½	
Buggy Bath	224	156	
Elks Lodge	202	178	
The Place	185	195	
Thrifty Wash	180	200	
Hideaway	170	210	
Farris'	165½	214½	
Hoopers' Troop	138	142	

Seven players shared in the scoring as the Hawks nipped the Jazz. Chris Brown had eight points while David Bartels and Amanda Cordell had six markers each in the win. Derek Brown's nine-point effort paced the Jazz while Chris Marshall had six points and Chris Fisher added five more.

Senior Division
Mavericks 37, Kings 34
Trailing by a single point after three periods of play, the Mavericks outscored the Kings 13-9 in the final period for the victory. Aldean Jones hit 21 points for the
(Continued on Page 7)



The Skipper Sez...

QUESTION

Civilian employee — I've enjoyed reading the Rocketeer and I think it is a very informative paper. However, I have a comment concerning the "Police Reports" column. I noticed an inconsistency in wording, highly informal in one paragraph and formal in another and often comical. For instance, in the January 3, 1986 issue "China Lake Police Reports", second column, 9th paragraph "... unknown persons broken the glass on the driver's side of his bicycle ..." is very funny. Also, in the fourth column, 3rd paragraph "Two sets of drivers ..." is puzzling. These two are just examples of what I often find in the "Police Reports" column.

I am sure some of these mishaps are just type-setting errors. But, for an official base newspaper that is released to the general public, it might be misconstrued as bad writing. Thank you, Captain, for taking your valuable time to read this note and for getting in touch with the average people.

ANSWER

As you have noted, typographic errors do creep into any publication that has tight deadlines. The Rocketeer staff of two editor/writers and an editorial assistant tries its best during the production process to catch all typographic errors. No one regrets more than they when such mistakes occur since these mistakes are visible to the entire readership.

Incidentally, the Rocketeer is an official base newspaper for internal communication. It is not released to the general public. We'll try harder.

QUESTION

Yes, I was calling in reference to the foreign-made vehicles being bought by the government and used in the codes out here on the ranges. I was wondering with all the problems we've been having with the automobile industry, how they could justify buying foreign-made vehicles? Thank you.

ANSWER

The Buy American Act does not prevent the U.S. Government from purchasing a foreign-made product. It does, however, give U.S. products preferential consideration through various formulae which, in effect, add costs to the proposal for the foreign-made product. If, after application of the formulae, the foreign-made product is still the lowest cost, award will be made for that item.

The requirement for the pickup trucks that you are referring to was solicited as an unrestricted competition. Four proposals were received, two for American vehicles and two for foreign-made vehicles. Evaluation was performed in accordance with the Buy American Act as implemented by the Federal Acquisition Regulation, and award was made for the vehicles with the lowest cost, as we are required to do by law.

QUESTION

Retired Military — In the January 17th Skipper Sez Column, a civilian employee asked a question about the Commissary and its operation. In the first place, I don't think that it is a very good question because the commissary really is very well operated; and in the second place, what was that jerk doing in that place? You giving that person an answer at all, was really, I feel, not proper, because that person was a civilian and he should not have been in the commissary in the first place.

QUESTION

I am calling the Skipper Sez in reference to a letter in the Rocketeer on January 17. The letter was addressed by a civilian employee; and the employee was discussing the problems of the commissary. My question is why is a civilian employee so familiar with the Navy Commissary? Thank you.

ANSWER

Civilian employee was retired military.

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.

Results announced of survey

Composite results of the 1985 Organizational Excellence Survey have been delivered to division offices. All employees are encouraged to review the report.

The summary package contains information on NWC aggregate responses to in-

dividual questions, trend data and response rates.

Further information about the report and copies of the report can be obtained by contacting Lucinda Bourne, Code 0824.

'Skunk Works' topic of Engineer's Week

Roy T. Passon, assistant general manager of Advanced Development Projects for Lockheed-California Corp., will talk about "Excellence Found — The REAL Skunk Works," at the Feb. 20 meeting of the High Desert Engineering Association (HIDEA) at Le Parc Restaurant beginning at 6 p.m.

HIDEA will be celebrating National Engineer's Week with their regular meeting. Capt. K. A. Dickerson, NWC Commander and Ridgecrest Mayor Anna Marie Bergens have joined in issuing a proclamation making the week of Feb. 16-22 National Engineer's Week in the Indian Wells Valley. The theme for this year's

observance is "Engineering: Building a Better World To Live In."

The High Desert Engineering Association is comprised of nine local engineering organizations.

Clarence (Kelly) Johnson, a one-time member of the NOTS Advisory Committee, and a well known aircraft designer, originated the Skunk Works during the early days of Lockheed Aircraft Co., predecessor of today's Lockheed Corp. Needing a group of highly skilled engineers and mechanics who could design, build and test advanced aircraft under high security conditions, Johnson assembled a team which became known around the world as the Skunk



ECUMENICAL PRAYER BREAKFAST — Capt. K. A. Dickerson, Center Commander, speaks at the annual prayer breakfast. Listening attentively are (l. to r.), Larry Brunson, Ridgecrest Chief of Police; Anna Marie Bergens, Mayor of Ridgecrest; and Mrs. Cecile Dickerson. About 250 people attended the breakfast. — Photo by PH3 Greg Hogan

Military, civilians gather for annual prayer breakfast

"Our forefathers had the courage to fight for their beliefs, for their churches, for their freedom... and so do we, and why do I believe that? Because we are a nation that looks to God," Capt. K. A. Dickerson told the 250 persons gathered at the local celebration of the Nation Prayer Breakfast on Feb. 6.

This year's local observance was conducted jointly by senior officials from China Lake and Ridgecrest, with Capt. Dickerson as the guest speaker for the morning. Music was provided by "Aviance," a quartet of Sweet Adelines members.

Leading the pledge of allegiance were NWC and VX-5 Sailors of the Quarter, with the invocation for the prayer breakfast given by Larry Brunson, Ridgecrest Chief of Police.

Scripture lessons were presented by Anna Marie Bergens, Ridgecrest Mayor, and Rose Varga, a prominent local resident.

In a reflection and prayer, Capt. A. M. Phillips, Commanding Officer of VX-5, asked for blessings for the men and women who fly over the ranges and prayed that

this nation be of sufficient preparedness that its strength never be tested.

Capt. Dickerson, after his introduction by Dr. Raymond McCue, president of Cerro Coso Community College, reviewed the growth of the nation from the time of the Founding Fathers until the present time and the threats faced by this country.

He noted that "We find ourselves in a new era produced by the continuing onward rush of science and technology... From an industrial age, we are passing on to an age of high technology. The electronic age now upon us prescribes new tasks and new priorities. Our society and societies the world over are constantly subjected to change."

Capt. Dickerson quoted Emerson as saying that "This time, like all times, is a very good one, if we but know what to do with it." He concluded with the comment that "That is so true — this time like all times, is a very good one" and that "a nation that prays together stays together."

The breakfast concluded with a benediction given by Capt. N. W. Hensley, NWC's Director of Supply.

Wise Owl Award presented

Alfredo R. Barajas, a sheet/plate metal worker in the Public Works' Maintenance and Utilities Division, has just become one of the few recipients of the certificate for life membership to the "Wise Owl Club."

The "Wise Owl Club" is supported by the National Society to Prevent Blindness, and the award is to recognize a serious injury has been prevented by safety procedures.

Eligibility for the award came while Barajas was cutting a piece of brass piano hinge with a metal band saw and approximately one-inch of the brass broke off and wedged between the saw and the table. The

movement of the saw caused the metal to eject from the table, impacting on the right lens of Barajas' safety glasses, shattering the lens. While the impact caused snail slivers of glass to contact Barajas' eye lid and the skin below the eye, there was no injury to the eye itself due to the safety lens.

Safety Director Tom Kritzmiere investigated the accident and determined had Barajas not been wearing safety glasses, a very serious eye injury would have occurred. Kritzmiere then compiled a report and sent it on to the National Society to Prevent Blindness. After a committee reviewed the incident, it decided to make Barajas a lifetime member of the "Wise Owl Club" for using safety glasses.

When Mike Crom, head of Public Works' Maintenance and Utilities Division, presented the certificate; he said this is the first certificate to be presented to a NWC employee in more than 4 years. He further instructed Barajas to let other people know wearing safety glasses is not a bad idea, but an extremely good one.

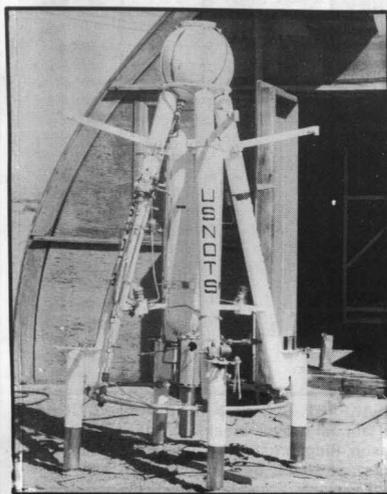
Passon's presentation will include slides and movies as he discusses early history of the Skunk Works as well as management and organizational principles contributing to the facility's success over the past 40 years.

Passon joined Lockheed in 1952 as a structural assembler. He was appointed to his present position with the firm in June, 1984.

For ticket information to the annual HIDEA banquet call Clark Hay at 446-3349.

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)

Soft landing vehicle designed at China Lake



In 1958, far-sighted planners at what was then the Naval Ordnance Test Station decided that when man went to the moon, he needed a soft landing vehicle (SLV) — and that such a vehicle might have some more earthbound uses as well.

The SLV was conceived in 1958, designed in 1960 and built and test flown at China Lake in 1961. What was sought was a vehicle capable of rising from the ground and settling down again, using a variable-thrust rocket engine and an automatic control system.

The test vehicle was 8 feet high, 5 feet wide, and weighed 700 pounds fully loaded with the UDMH and IRFNA fuel to provide power for 75 seconds. The SLV used an optical guidance system to control it to a soft landing. To ensure

safety for those testing the SLV, the four tests were performed at a tower at Randsburg Wash, where its flight could be controlled.

In the first, remote-controlled test, the SLV rose 50 feet, lowered to the 30 foot level, and touched down with a velocity of 5 feet per second. For test No. 2 an optical control was installed. This time SLV rose 130 feet, held at 70 feet and 15 feet, and touched down at 8.3 feet per second.

Test No. 3 had the SLV rise 135 feet, hold half way down, and land at 8 feet per second.

During the fourth and final test, SLV descended at 3.8 feet per second when it malfunctioned, soared skywards along the tower and its cable systems, and tore apart, ending the test series.



China Lake Police Reports

China Lake police have the following items in their found property locker: cassette player AM/FM radio with head-phone set, white metal ring, microphone, pair of protective glasses, several key rings with keys, cigarette case with hair brush, two watches, and a pair of glasses. Anyone wishing to claim any of these items should contact Officer Fugate, NWC ext. 2947, between 7 a.m. and 5 p.m. on Fridays only. Owners can claim any of the items by making positive identification. If the items are not claimed within 30 days, they will be disposed of in accordance with state and federal regulations.

+++
A box alarm at the Child Care Center was set off due to an employee error.

+++
At noon one day China Lake police were called to the BEQ to remove an unauthorized female adult civilian. She was escorted off the Center by the police.

+++
An employee of a contractor was arrested on a warrant out of San Bernardino County. He was released to Trona deputies to be booked into jail.

+++
Two male juveniles were arrested for throwing rocks through windows in the housing area and for throwing rocks at motor vehicles. They were released in the custody of their parents and charges will be forwarded to the probation department.

+++
A victim told police that two men drove up to him while he was in the 500 block on Rowe Street, got out of their vehicle, struck him and knocked him down, and then drove off.

+++
A husband and wife residing on Hubbard Circle got into a physical altercation,

resulting in a call to the China Lake police. Neither was willing to sign a complaint; they said they would work out their differences themselves.

+++
In an attempted burglary on Burroughs Ave., someone pried open a sliding glass door.

+++
A mentally disordered young civilian woman who attempted suicide in the BEQ area was transferred to Kern General Hospital in Bakersfield for psychiatric evaluation.

+++
A woman was picked up for driving while under the influence of alcohol, held five hours, cited into court and released.

+++
A resident on Mitscher whose dogs were running loose and barking at people was advised to keep his animals contained.

+++
A military driver at Randsburg Wash failed to judge proper clearance and tore down guy wires with a vehicle.

+++
The owner of a 1970 Porsche reported to police that someone scratched a cross in the middle of the trunk of his car while it was parked at his working area, Bldg. 20014

+++
A bicycle was found on the west side of Pierce School. It can be claimed by the owner at the China Lake police station.

+++
A military man reported that he found a dent in the rear fender of his motorcycle caused by a hit and run driver. The motorcycle was parked by his house on Burroughs Avenue.

+++
Two stray dogs injured a cat belonging to a resident on Burroughs Ave. The cat had to be put to sleep by a veterinarian.



NEW GROUP — Members of the Black Interest Group at a recent meeting of this committee include (l. to r.), front row, Ann Kurotori, Catherine Rogers, and Will Carey. Behind them are Stephen Foster, Cleveland Blythe, Colden Nutt, and Jackie Davis. Not present for the picture were Rami Wissa, Sheila Fultz, Corretta Harris, Linda Minshew, and the group's military advisor, SH1 Madison Bryson.

Black Interest Program optimizes human resources

The Naval Weapons Center is not only unique in its approach to optimizing scientific and engineering resources, but also in its approach to optimizing human resources. NWC, for instance, is the only Navy establishment to have a Black Interest Program (BIP) to aid in recruitment and career development for this group that represents nearly 20 percent of all Americans.

The Center's program, under Catherine Rogers in the Equal Employment Opportunity Office, began with a different focus for BIP. Initially, the committee supported awareness training and put on events dealing with Black concerns and interests.

BIP has now reorganized into a proactive committee to work on skills and career development for the minority community and, when the hiring freeze is over, to get involved with targeted recruiting for staff-

ing and other programs.

Although there have been gains in Black employment on board in recent years, only 90 full time permanent NWC personnel are Black. With the assistance of the committee, "the eyes and ears of the program," according to Ms. Rogers, that number should increase in future years and will become more representative of the number of Black Americans in the general population.

Until recruiting becomes possible again (and even after that time), BIP will focus on skills development for Blacks and other minorities on board. They will be counseled about classes available at Cerro Coso Community College and through the College extension programs, and will also receive career counseling to make them aware of the potential that they possess to advance in their chosen career fields.

Maturango Museum plans annual dinner meeting Feb. 28

Only a few more days remain to make reservations for the Maturango Museum's annual dinner meeting to be held at the Enlisted Mess on Friday, Feb. 28.

Highlight of the dinner will be a talk on "East Africa and Man's Origins" by Dr. Craig Black, Director of the Natural History Museum of Los Angeles. Dr. Black, who has also held the position of director at the Carnegie Museum of Natural History in

Pittsburgh, has been engaged in research in vertebrate paleontology in France, Tunisia, Kenya, South Africa, Algeria, Greece and the United States.

The evening begins with a social hour at 6 o'clock, to be followed by a three-meat dinner at 7 p.m. Cost for dinner, including tax and tip, is \$10 per person. Tickets must be purchased by close of business next Tuesday, Feb. 18.

Reservations can be made by telephoning the museum at 446-6900 until 5 today, and from 8 a.m. to 5 p.m. Monday and Tuesday. On the weekend, a message can be left at the museum between 2 and 5 p.m.; anyone leaving a message should leave a day-time telephone number so museum personnel can get in touch Tuesday.

At the dinner a drawing will be held for winners of three special prizes: an all-

expense trip for two to Mazatlan for eight days, and paintings by Hamil Ma and Leo Nowak. Tickets for the drawing can be purchased at the museum or at the dinner.

Health tip

Every year, disease and lost productivity due to smoking costs the United States \$65 billion.

Navy League readies Sailor of the Year banquet

When the Navy League of the Indian Wells Valley salutes the top sailors at China Lake on March 8, they will be honoring Sailors of the Quarter from the Naval Weapons Center and Air Test and Evaluation Squadron Five (VX-5) and the Blue-jackets of the Year from each of those commands.

Eight sailors, four each from NWC and VX-5 are eligible to compete for top annual honors. The selection goes to outstanding sailors, (E-6 and below) based on their accomplishments in the Navy and at China Lake in particular.

Included in that group are the Sailors of the Quarter for the first quarter of last year, Air Traffic Controller First Class (AC1) Tina Evans of NWC and Photographers Mate Third Class (PH3) Greg Hogan of VX-5.

Petty Officer Evans was commended for her leadership and technical expertise as an air traffic control watch supervisor. As tower supervisor she manages and directs tower operations with 15 controllers daily.

The letter of nomination in April said, "the air traffic control tower has improved professionally and the amount of local air traffic incidents reduced during her tenure."

AC1 Evans is a member of the Fleet Reserve Association, Branch 95; the First Class Petty Officer's Association; Navy Exchange/Commissary advisory board and the Enlisted Mess advisory board.

Her supervisor, ACC H.J. Tavare said, "she is a friendly, pleasant individual who constantly strives to help her shipmates in any endeavor."

PH3 Hogan has been at the VX-5 photo lab since arriving at China Lake nearly four years ago. Duties include taking and processing photos for CNO projects and for the squadron public affairs function.



PHOTOGRAPHER — PH3 Greg Hogan was VX-5's Sailor of the Quarter for the first quarter of 1985.

A native of Renton, Washington, PH3 Hogan says "I enjoy meeting people and helping promote VX-5, its activities and its people." He added it was "a pleasure to get paid for my hobby (photography) while I gain training in the field."

In his off-duty time he has been active in community theater functions and as a sports photographer.

Joining Petty Officer Evans as NWC representatives are YD3 German Ydrovo, second quarter; PR1 Harvey Hartman,

third quarter; and AE3 Marty Chilton for the final quarter of 1985.

From VX-5, the other representatives are MS2 Peter Vanderwalle, second quarter; YN2 Guy Wellington, third quarter; and AE3 John Linford, fourth quarter of 1985.



AIR CONTROLLER — AC1 Tina Evans was named NWC Sailor of the Quarter for the first quarter of 1985.

Annual CPO Military Ball scheduled Feb. 22

Preparations for the CPO Annual Military Ball on Saturday, February 22, are now in full swing.

This is the 31st year of luxurious decorations, tasty food, and superb entertainment which has been typical of CPO balls held in the past.

Chief Huntsman, CPO President, says the event will open with cocktails at 5:30 p.m. with a prime rib dinner being served at 7. Entertainment, starting at 9 will be the

variety band "Pacific Star." Complimentary wine and a souvenir will be presented to all attendees.



Capt. Harry Parode, USN (Retired), has been invited to be the guest speaker for this event. A few of the invited guests include

Capt. K. A. Dickerson, NWC Commander; Capt. A. M. Phillips, VW-5 Commanding Officer; and Chaplain A.J. Smith.

The night's festivities will require formal attire (service dress blues or better for active CPOs); and reservations.

Tickets, which may now be purchased at the Chief Petty Officers' Mess Office, are \$15 each.

For reservations or more information, contact the CPOM Office at NWC ext. 3633.



Tax advantages possible for many reservists

If you're a member of the Reserve or National Guard, some of your service-related expenses may be tax deductible.

Travel expenses are deductible for required attendance at drills and annual training periods outside your general commuting area. This includes reasonable transportation, meals and lodging expenses that exceed reimbursement provided by the government.

If the meetings are held in the general area of your tax home, the cost of transportation from your home to the meetings is a nondeductible commuting expense.

The one exception to this is when you work your regular job and report for a Reserve drill during the same day. The expense of traveling from one place to another is deductible — but only if you go directly from one location to the other. Reservists drilling within their general commuting area cannot deduct meal and lodging costs.

You may deduct the unreimbursed cost of your uniform if military regulations

restrict you from wearing it except while on duty. In figuring the deduction, you must reduce the cost by any non-taxable uniform allowance you receive.

These expenses are listed on IRS Form 2106 as adjustments to income. They are deductible whether or not you itemize deductions.

If you do itemize, you may qualify for several other deductions such as laundry, dry cleaning maintenance, repair and alteration of uniforms. Only expenses for items strictly of a military nature can be included.

Other deductible miscellaneous expenses include dues to professional military organizations and charitable contributions for donations to the USO or organizations solely for recreation, amusement or welfare of service members and their dependents.

One deduction overlooked by some reservists is the child care credit. This applies if you have to pay someone to care for your dependent so you can drill or go to annual training. If married, your spouse must be working, or a full-time student,

during your drill or annual training period. To qualify, your dependent(s) must be younger than 15 or disabled. A disabled spouse also qualifies.

Reserve or Guard pay, when combined with income from a regular job, sometimes

puts you in a higher tax bracket than your withholding covers. You can avoid owing additional taxes next year by submitting an IRS W-4 form to your unit pay clerk, requesting additional withholding from drill and annual training pay.

Some VA entitlements cut

The Veterans' Administration (VA) will cut some of its entitlement programs starting March 1 because of the Gramm-Rudman Balanced Budget and Emergency Deficit Control Act.

Cuts in the Home Loan Guaranty Program will affect active-duty military the hardest. VA will no longer guarantee home loans based on restored or partial entitlements. This means that you can only use your VA home loan once. Your entitlement to a VA home loan will not be restored when you sell your home, even if the VA loan is paid in full.

In addition, VA will limit home loans approved to a maximum of \$90,000 and will not refinance existing home loans.

VA has had to make cuts in some of its other veterans' programs.

Benefit payments for veterans and eligible dependents and survivors enrolled in education and training programs will be reduced 8.7 percent. This means a decrease of \$33 a month, from \$376 to \$343, for a single veteran training full time.

Appointment rules

Dependents who have dental appointments are reminded that only children who actually have an appointment should be brought to the clinic. Parents must provide care for their children; if this creates undue hardship, call dental personnel at the clinic to discuss possible alternatives.

SELF-STUDY

COMPUTER-BASED TRAINING IN LASER SAFETY

This course requires the use of an IBM PC, XT, AT, or any compatible system. The course has four lessons taking about 10 hours to complete. If you don't have access to an IBM or compatible computer, Code 094 has an IBM PC in its Learning Center for students to use.

OUTLINE

- Lesson 1, Fundamentals
 - I Introduction
 - II Special Properties of the Laser Beam
 - III Elements of a Laser
 - IV A Catalogue of Modern Lasers
- Lesson 2, Light and Optics
 - I The Electromagnetic Spectrum
 - II Light and Matter
 - III Laser Light
- Lesson 3, Laser Hazards
 - I Wavelength and the EM Spectrum
 - II Laser Damage in Human Tissue
 - III Review of Irradiance and Radiant Exposure
 - IV Eye Injuries
 - V Skin Injuries
 - VI Hazardous Laser Exposure Levels
 - VII Related Laser Hazards
- Lesson 4, Laser Safety Practices and Controls
 - I Controls
 - II Hazard Classification
 - III Hazard Recognition
 - IV Four Laser Accidents—Review and Correction

MODERN CONTROL THEORY

Training Center, Chapel Annex 95. By: M.I.T., Professor Michael Athans.

Scope: This is a 3-part course. All lectures are on studio-produced color videotapes and tapes vary in length from 40 to 50 minutes each. You will be provided with a study guide for each part; the text, *Optimal Control*, by Athans and Falb; and a computer study guide and computer card deck. Because of the projected popularity of this course, it will be necessary for you to view the tapes at the Chapel Annex 95, which will be open after hours and on weekends, in addition to regular working hours. You may sign up for Parts I, II, or III independently of each other.

Part I: System Analysis - 11 videotapes

Topics include: Introduction to the modeling philosophy and design methodology; multivariable dynamic systems using state variable (in the time domain) and transfer functions (in the frequency domain); linear and nonlinear systems (continuous-time and discrete-time); concepts of stability, controllability, and observability.

Part II: Deterministic Optimal Control - 10 videotapes

Topics include: Formulation of dynamic optimization problems; two theorems: maximum principles of Pontryagin and Bellman's dynamic programming algorithm. The steepest-descent (gradient) algorithm and the Newton method algorithm are explained.

Part III: Deterministic Optimal Linear Feedback - 20 videotapes

Describes the linear-quadratic multivariable control systems design method.

DATABASE MANAGEMENT SYSTEMS CONCEPTS

This is a self-paced course that can be completed in about 3 days.

Prerequisites: At least 2 years in a college computer curriculum and 2 years of experience with file management programming, or a similar background. No specific database management system experience is needed. You also should have completed a DIGITAL programming course or have similar experience. This requirement provides you with an understanding of file management.

Scope: This course should prepare you to be able to

- Explain what a database management system is, what it does, and the advantages and disadvantages for using one
- Identify and define the major terms used in data modeling and data management systems
- Explain the similarities and differences between the hierarchical, network, and relational data models
- Design a simple database

This course is available for checkout through the CCF Library, Gwen Williamson, Code 1411, ext. 2519. (Code 094)

DIGITAL SIGNAL PROCESSING

Continuous open enrollment, Training Center, Annex 95. By: Alan Openheim, MIT.

Scope: This course is not intended to substitute for a semester-length course, but is an overview to give you an exposure to digital filtering in a broad context. Topics include an introduction; discrete-time signals and systems definitions and stability; the discrete-time Fourier transform; sampling, aliasing, and frequency response; demonstrations of sampling, aliasing, and frequency response; the Z-transform; the inverse Z-transform; Z-transform properties; the discrete-Fourier series; the discrete-Fourier transform; circular convolution; representation of linear-digital networks; network structures for infinite impulse response (IIR) digital filters; network structure for finite impulse response (FIR) digital filters and parameter-quantization effects in digital-filter structures; design of IIR digital filters-1 and 2; examples of IIR filter design; design of FIR digital filters; computation of the discrete Fourier transform-1, 2, and 3.

Cal-State Chico has announced the following class is being offered this spring as part of the Cal-State Chico Computer Science external degree program at NWC: CSCI 376: THEORY OF INFORMATION RETRIEVAL (3 Units)

April 19-20; May 18-19; and June 21-22, Saturday and Sunday, 0800-1600; Training Center. By Professor George Aronovick.

Prerequisite: CSCI 172, Systems Architecture, or consent of instructor.

Scope: This course is a graduate seminar on the theory of information retrieval systems. The major problems of modern information storage and retrieval systems are presented and discussed. Various theoretical, as well as selected applied approaches, will be studied and likely solutions will be presented and analyzed.

Text: "Modern Information Retrieval Systems," Gerald Salton, McGraw-Hill.

Note: This is a required class for the Master's program in Software Engineering. For more information, call Steve Lee, NWC ext. 2468.

To enroll, submit a Training Request (NAVWPNCEN, 12410/73) via department channels to Code 094.

Training personnel suggest ways to speed registration

Before signing up for non-academic short courses, review the suggestions below to speed the registration process and to avoid potential problems.

It is always wise to discuss with your supervisor the objective for taking a class for all training to get a clear idea of what it is you expect to get out of the class.

For on Center training, submit NAVWPNCEN Form 12410/73 to Code 094 via department channels by the deadline date. Be sure to complete block 16 with a statement of the intended result of the training.

After receiving confirmation, block out course dates on your calendar. If you do not receive a confirmation date within 2 days of the start date, check with your department office and Code 094.

If you are disapproved, do not just "show up." Contracts with vendors have specific limits on the number of students allowed. If you must cancel, call Code 094 immediately.

The following chart details the proper form to be used for any type of training.

TYPE OF COURSE	12410/73 "Request for On-Center Training"	DD1556 "Request, Authorization, Agreement, Certification of Training and Reimbursement"
On-Center Short Courses*	XXXX	
Academic Classes: Cal State Northridge, Chico and Bakersfield	XXXX	
Academic Classes: Cerro Coso Community College		XXXX
Self-Study Courses: Correspondence		XXXX
Self-Study Courses: All other	XXXX	
Off-Center Courses (including off-center academic)		XXXX
Conferences	No training enrollment form required; include registration fee on travel orders.	
Tutorials (3 hours or more) in connection with conferences		XXXX

*Includes Center sponsored short courses conducted at locations such as motel meeting rooms and Cerro Coso Community College

Be sure to complete your evaluation at the end of the training and turn it into Code 094.

For off-Center training, be sure that the course is not, nor will be available on Center. If it is not available, submit DD-Form 1556 to Code 094 via department channels, at a MINIMUM of 30 days in advance of the starting date. Be sure Block 4 has a clear statement of the intended result of training and attach a copy of the brochure. Registering by phone directly to the vendor is not allowed.

If money is required for the course, let Code 094 forward payment to the vendor, don't send it directly on your own.

If you must cancel, call Code 094 immediately, do not cancel directly through the vendor.

Be sure to complete your evaluation at the end of the training and turn it into Code 094.



Promotional Opportunities

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

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

No. 00-002, Audit Assistant, GS-503-4/5/6, Code 002 — This position is located in the Office of the Commander, Internal Review Staff. The incumbent performs technical audit duties including unannounced cash counts, stub reviews and various routine quarterly and month compliance reviews. Interpret and determine compliance to appropriate regulations, prepare written reports to the Commander on findings and recommendations. Assist auditors on various reviews and other audit duties as specified by the Head, Code 002. **Knowledge:** of standard bookkeeping and accounting procedures used to process and record transactions; of agency regulations, procedures, and policies. **Skill:** in questioning unusual actions or in obtaining information to support or verify questionable actions. **Abilities:** to assist in perceiving alternative ways and procedures of accomplishing desired objectives; to maintain high level of accuracy in work requiring close attention to detail; to assist in analyzing the adequacy and effectiveness of reported data and determined whether it serves its intended purpose; to communicate effectively both orally and in writing. Promotion potential to GS-6, but not guaranteed.

No. 08-002, Accounting Technician, GS-525-4/5, Code 08622 — This position is located in the Cost Accounting Branch of the Accounting Division. Incumbent will serve as an Accounting Technician in the control and maintenance of cost accounting records and subsidiary ledgers for the Major Contracts Section. Duties include the review of incoming contracts and amendments for accuracy and completeness; reconciling subsidiary ledger accounts; extracting necessary information from source documents, collating the data and preparing forms to enter the data into the

automated system; auditing computer outputs for accuracy; validating historical costs and transactions; and researching aged financial information to clear accounts. Incumbent has extensive contact with NWC project, budget, and supply personnel and provides information on various vendor inquiries. **Knowledge:** of Integrated Disbursing and Accounting system; of Document Entry System; of NWC accounting system; of NAVCOMPT regulations. **Abilities:** to work accurately with figures; to meet financial work deadlines; to deal effectively with people. Promotion potential to GS-6, but not guaranteed. Previous applicants need not reapply.

No. 08-012, Computer Operator, GS-332-4/5/6, Code 0881 — (2nd shift 1600-2400) Position is located in the Computer Operations Branch, Computing System Division. Serves as a junior level or trainee computer operator in the operation of major ADP systems (UNIVAL 110-80) with full operational responsibilities over on-line peripheral equipment and associated devices. **Knowledge:** of data processing. **Abilities:** to operate computer equipment (i.e. large main frame, high speed printer); to work as a member of a team.

No. 08-013, Mail/File Clerk, GS-305-3/4/5, Code 0852 — This position is located in the Mail, File and Records Branch. Incumbent will work in the central mail unit of the Naval Weapons Center and is concerned primarily with the processing of registered mail and assisting in maintaining records for all secret material on Center. **Abilities:** to index and file; to work independently; to work effectively with others. Promotion potential to GS-5.

No. 24-007, Clerk Typist, GS-322-3/4, Code 2432 — This position is located in the Personnel Security Section of the Informa-

tion Security Branch. Incumbent performs clerical duties which includes processing employee security clearances, fingerprinting, typing clearance letters, and messages, originating foreign travel messages, maintaining logs, filing and mailing. Position provides support in personnel security actions. **Elements:** Ability to acquire knowledge of regulations and directives relating to personnel clearances, message processing and foreign travel requirements. Ability to learn fingerprinting techniques. Ability to effectively interface and communicate orally and in writing. Promotion potential to the GS-4 level.

No. 24-008, Firefighter, GS-061-5B, Code 242 — Supplemental qualification statement required. This announcement will be used to establish the promotion register for Firefighter, GS-5B, which will remain in effect until August 1986. Duties include driving and operating structural pumps and any type crash fire trucks, responding on ambulance calls as either driver or attendant, inspection of Center's building and property, and conducting training classes for trainee firefighters. **KSAs:** K - of locations (streets, water distribution - alarm/detection systems, building contents/layouts, etc.); of fire prevention practices with regard to building inspections and ability to identify fire hazards; of references sources; of firefighting (fire, origin and techniques of extinguishing fires). A - to operate firefighting apparatus and equipment, structural pumps, crash fire trucks, pumping systems, nozzles, rescue equipment; to drive (proper use of gears, clutch, brakes, etc. and demonstrated safe, smooth, effective operations of vehicles); to accept responsibility and carry out assignments with minimal supervision.

No. 26-005, Computer Programmer, DS-334-2/3, Code 26022 — This position is located in the Computer Information Support Office. Incumbent will be responsible for data bases resident on the UNIVAC in S2K. The primary responsibility will be to assist the customers in obtaining ad hoc reports and to maintain existing programs and data bases. The incumbent will also train to use the data base software, SMARTSTAR, that will be on the Public Works VAX. The incumbent will develop data bases for the Department using SMARTSTAR. **Job Relevant Criteria:** **Knowledge:** S2K query language, data structures and associated report writer and PLEX programming capabilities; of VAX/VMX desirable, but not mandatory. **Abilities:** to use S2K for programming and use S2K report writer; to communicate effectively with individuals at all organization levels both orally and in writing; to plan, organize, and coordinate complex data base projects; to work effectively in a team environment; to work under pressure. If filled at the DS-2 level, promotion potential is to the DS-3 level, but is not guaranteed.

No. 32-202, Engineering Technician, DT-802-2/3, Code 3275 — This position is in the Weapon Power Systems Branch. The incumbent will assist senior personnel in the design, fabrication and test of power system components such as electrical generators, compressed gas supplies and control actuators. **Job Elements:** Ability to perform a variety of tasks associated with electronic and mechanical devices/systems; ability to conduct assembly of minor electrical and electronic devices; knowledge of fabrication techniques; knowledge of basic instrumentation and test devices. Promotion potential to DT-3.

No. 34-003, Photographer (Laboratory), DT-1060-1, Code 3451 — This position is located in the Photographic Division, Technical Information Department. The incumbent performs all standard techniques and procedures necessary to produce accurate and precise photographic

prints and transparencies. The incumbent will use various types of manual enlargers, automatic printers and processors and perform related photo finishing duties. **KSAs:** Basic knowledge of laboratory processes and procedures involved in the production of still prints and transparencies. Knowledge and use of automatic printing and processing equipment. Ability to produce black/white and color prints and viewgraphs on manual and automatic equipment; ability to effectively use basic technical publications. Promotion potential to DT-2.

No. 34-004, Writer/Editor (Printed Media), DA-1082-1, Code 3412 — These two positions are located in the Editing Branch, Publications Division, Technical Information Department. The incumbent writes and/or edits technical and administrative reports, articles, and brochures; coordinates phases of the publication process; gather and organizes technical information; and uses text processing equipment. **KSAs:** Ability to interface effectively with all levels of Center personnel; ability to analyze data; ability to gather and organize technical information; knowledge of publishing techniques; and skill in editing. Promotion potential to DA-3.

No. 35-019, Engineering Data Management Specialist, DS-301-1, Code 3554 — Incumbent is responsible to Data Quality Assurance Engineer in the area of data product quality assurance. This includes data verification, assisting with and learning to use diagnostic test and tools during the data quality assurance process at the EWTES Facility. Work schedule is First-Forty Hours. **Knowledge:** basic understanding of radar systems, data chains, and various number systems. **Abilities:** to effectively communicate orally and in writing; to deal with technical and management personnel at all levels. Promotion potential: DS-2.

No. 36-121, Training Support Assistant, GS-303-5/6, Code 094 — Incumbent serves as contact point and coordinator for daytime and evening classroom and equipment utilization for the training Center, including plant account and procurement of equipment. Incumbent provides administrative support to the division for the entire annual training cycle: the input process, the approval process, analytical reports, budgeting, course scheduling, and coordinating training recordkeeping. **Elements:** Ability: to communicate effectively orally; to communicate effectively in writing; to organize, prioritize and manage a variety of duties; to analyze problems and arrive at acceptable solutions under pressure; and to understand and interpret regulatory and reference material. Promotion potential to GS-7.

No. 61-006, Electronics Technician, DT-856-A/1/2, Code 61312 — This position is located in the Tracking and Control Branch, Engineering Support Division, Aircraft Department. The incumbent is responsible for the operational readiness of drone systems installed in aerial targets. Incumbent provides technical support to Division personnel. Duties will also include design, fabrication, installation, maintenance, and operation of these systems. Must be willing to travel to other DOD organizations and contractor facilities in the normal performance of duties. **Knowledge:** of the hardware, software, and telemetry systems relevant to drone aerial targets; of digital logic. **Abilities:** to operate digital test equipment and related systems; to communicate both orally and in writing. **Skill:** in soldering.

No. 64-011, Engineering Technician, DT-802-1/2/3, Code 6414 — This position is located in the Aerosystems Department, Recovery Systems Division, Test Support Branch. This position is not located at the .irfield. The incumbent is responsible for conducting parachute related tests, analyz-

ing test data and making design recommendations based on that data. The incumbent works with the project manager in planning, scheduling, and coordinating tests or laboratory experiments. **Knowledge:** of parachute related test equipment (DT-2/3); or of testing procedures (DT-1). **Abilities:** to plan and coordinate tests; and to communicate both orally and in writing. **Skill:** in analyzing test data. Promotion potential to DT-3, but promotion is not guaranteed. Previous applicants need not reapply.

No. 64-012, Interdisciplinary (Aerospace/Mechanical/General Engineer) DP-861/830/801-1/2/3, 2 vacancies, Code 6431 — These positions are located in the Basic Design Section, Fleet Support Branch, Engineering Support Division of the Aerosystems Department. Incumbent will provide technical support for Fleet Aviation Life Support Systems equipment, primarily personnel parachutes for both emergency egress and premeditated operations, and related torso restraint equipment. Technical support will consist of evaluating Fleet reported problems which infer design discrepancies, isolating deficiency, establishing fix, prototyping test sample and testing design

change, and implementing change to Fleet equipment. Problems may range from simple to major systems changes requiring application of various engineering disciplines and possible visit to Fleet activities worldwide. **Knowledge:** of basic aerodynamic and mechanical engineering principles; of parachute technology. **Abilities:** to work with both sponsor and Fleet personnel and to adapt to changing and sometimes pressure work situations.

No. 36-122, Logistics Management Specialist, DS-346-1/2/3 — Incumbent is responsible for preparing and implementing ILS plans for DOD weapon systems/equipment. Establishes logistics support criteria for system specifications, solicitation packages, contracts, and life cycle cost studies. Prepares and manages budgets for cognizant programs and ensures system support during development and operation. **Elements: Knowledge:** of logistics planning techniques and methods; of logistics maintenance and support principles; and of military command structure and how it relates to logistics support of tactical missile systems. **Ability:** to participate effectively as a member of a technical team; to communicate orally and communicate in writing. Multiple vacancies. Promotion potential DS-3.

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. 32-201, Interdisciplinary (General, Materials, Mechanical, Aerospace, Industrial) Engineer, DP-801/806/830/861/896-3, Code 3261. Incumbent will be the project engineer for full-scale engineering development (FSED) of an improved warhead for a major design and explosive selection process. The following types of experience is desired: FSED experience and familiarity with Center acquisition, management review, and documentation policies/instruction are required. To apply, send an updated SF-171 by 28 February 1986 to N. Pasig, Code 3261, extension 7282. Promotion potential to DP-3.

No. 36-119, Interdisciplinary General/Mechanical/Electrical/Electronics/Aerospace Engineer/Physicist/Mathematician/Industrial Engineer, DP-801/830/850/855/861/1210/1520/896-2/3, Code 3604 — Incumbent will act as the production project engineer for the assigned Sidewinder Fuze, Safe and Arm Components; will coordinate the efforts of various NWC branches including design engineering, quality, reliability, soldering, and documentation; and will maintain close liaison with technical management elements of NAVAIR and the prime contractors. **Elements: Knowledge:** of missile components technology and of Sidewinder and its support system. **Ability:** to communicate effectively in writing; to communicate effectively orally; to comprehend and coordinate efforts on a large number of complex technical efforts; and to interface effectively with both NAVAIR and contractor personnel. Willingness to travel, sometimes

extensively. Submit current SF-171 to Randy Langham, Code 3604.

No. 623-123, Mechanical Engineer, DP-830-1/2/3, Code 6232 — Help push back the frontier of instrumentation development by applying your engineering expertise to such exciting programs as OADS and ALRITE. In this position, you will function as a team member or work independently by providing engineering support to test programs conducted on the Range Department's Air, Ground and Track Ranges. You will participate in facilities maintenance and improvement programs and follow a project from conceptual planning stages to final inspection of the finished facility. In your job, you will interface with personnel at all organizational levels from department heads to PW craftsmen. You will plan, schedule, coordinate and monitor work to ensure the finished product meets design specifications and fulfills customer requirements. To apply for this unique position, send a current 171 to Eric Kajawara, Code 6232, ext. 6287.

No. 64-010, General Engineer, DP-801-1/2/3, Code 6414 — This position is located in the Aerospace Department, Recovery Systems Division, Test Support Branch. This position is not located at the airfield. The incumbent is responsible for conducting parachute related tests, analyzing test data and making design recommendations based on that data. The incumbent works with the project manager in planning, scheduling, and coordinating tests on laboratory experiments. Applications should be forwarded to Don Cooper, Code 641, ext. 2163. Previous applicants need not reapply.

Blue Cross rep on board

Frankie Daughton, an accounts representative with the Blue Cross Health benefits plan, will be at NWC on Monday, February 24, to meet with interested employees who may be having difficulties with their health benefits coverage or any who just wish to hear about any changes. How can Blue Cross lower your premiums for 2 consecutive years and con-

tinue to increase the level of covered benefits? Frankie Daughton will be at the Personnel Building, Conference Room, 505 Blandly. You do not need an appointment, just come in any time between 10 a.m. and 4 p.m.

For further information contact Cheri R. Neil or Sandra Tofson at NWC ext. 2018 or 2592.

Secretarial opportunities

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

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

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

No. 32-200, Secretary (Typing), GS-318-4/5, Code 3263. Provides secretarial support to Weapons Systems Branch "A". Knowledge and working skill on a Xerox 640 desirable. Promotion potential to GS-5.

No. 36-120, Secretary (Typing), GS-318-5/6, Code 3680 — Provides secretarial support to the Division Staff of the Product Assurance Division. Promotion potential to

GS-6. **No. 64-013, Secretary (Typing), GS-318-4/5, Code 6424.** The incumbent provides secretarial support to the Telemetry Systems Branch.

No. 64-014, Secretary (Typing), GS-318-4/5, Code 6433. Incumbent provides secretarial support to the Textiles Engineering Branch.

Recent Departures

Code	Name	Title
06	Josephson, Karen E.	Clerk-typist
0863	Lord, Bonnie L.	Clerk-typist
092	Teeter, Joan C.	Staffing Clerk (Typing)
14111	Hewett, Gerald L.	Electronics Tech.
2405	Parker, Alice M.	Safety & Occup. Health
25203	Yon, Louis A.	Contract Price Analyst
26414	Smith, Howard E. Jr.	Painter
26448	Stevens, James L.	Carpenter
3115	Stuart, Phillip S.	Computer Scientist
3153	Hall, Miki C.	Clerk-typist
355	Wood, Brenne K.	Clerk-typist
3552	Nelson, Kristin P.	Computer Clerk
3608	Gee, Sophie E.	Secretary (Typing)
3608	Nelsen, Kari L.	Clerk-typist
36084	Vanbuskirk, Lyman F.	Mechanical Engr.
36573	Hemingway, Robert E.	Computer Spec.
3907	Oliver, Susan L.	Clerk (Typing)
39151	Kim, Jung K.	Mechanical Engr.
3925	West, Michael E.	Engrg. Aid
6131	Zurn, Gordon F. Jr.	Electronics Tech. Supvy.

Non-appropriated Funds Instrumentalities Arrivals

2222	Loveless, Donna
2203	Delagarza, Vienna

Non-appropriated Funds Instrumentalities Departures

2213	Passwater, Mark
2213	Russell, Sherry
2213	Matthews, Debbie
2213	Mitchell, Ida
2223	Green, Kerma
2227	Kelly, Jaqueline
2227	Castillo, Virginia
2212	Martinez, Oralia

Chico advisor slates visit

Dr. Orlando Madrigal of Cal State University Chico will be on Center on Friday, March 7, to advise current and prospective students in the external degree programs offered by the school.

Cal State University Chico has external

degree programs in computer sciences that lead to bachelor's and master's degrees. Those who wish to see Dr. Madrigal are asked to make an appointment by telephoning Kelly Newton, NWC ext. 2648.



Personnel Development Opportunity

DEVELOPING CONTRACT WORK STATEMENTS

February 24-28, 0800-1500, Training Center. By: Richard Sawyer.

Intended Audience: Project officers, contracting officers, and other personnel performing job analysis and preparing work statements.

Scope: When you finish this class you should be able to explain the functions of the work statement, develop a work breakdown structure to identify contractor tasks, develop measures and quality to evaluate contractor performance, and develop a surveillance plan for contractor performance. Topics include the responsibilities of project and contracting personnel job analysis approach, writing the work statements, quality assurance procedures, and sample work statements.

Deadline: Call Jeannie at NWC ext. 2359, and follow up with a Training Request.

SPECIAL SESSION FOR SECNAVINST 5216.5C

March 6, Thursday, 0900-110, Training Center. By: Odessa Newman.

Objectives: This is a two hour session to answer special questions regarding the use of SECNAVINST 5216.5C, Dept. of the Navy Correspondence Manual. It will be open to Technical Writers, secretaries and other clerical personnel and will be conducted on a drop-in basis with no paperwork required.

For more information contact Kit Driscoll, NWC ext. 2451.

BASIC NAVAL CORRESPONDENCE

March 13, 0800-1600, Training Center. By: Odessa Newman.

Intended Audience: Typists new to the Navy; however, the course will provide a good review for anyone who types naval correspondence.

Scope: Focuses on the policies and procedures for typing naval letters and memorandums. The course also highlights Chapter 1 (Naval Writing Standards) to the Department of the Navy Correspondence Manual. Please bring a Correspondence Manual if you have one.

Deadline: February 27.

WOMEN AS LEADERS IN THE WORKPLACE

24-26 March, Monday-Wednesday, 0800-1600, Training Center. By: Marion King-Drops.

Scope: This program takes a serious look at the concept of leadership in general and of women as leaders in particular. It focuses on assessing one's innate leadership abilities, making the choice for leadership in the workplace, and determining the tools for implementing the leadership role.

OUTLINE

- Day 1. Self-Motivation Process
- Principles of motivation
 - Motivation strategies
 - Career planning
 - Goal setting
- Day 2. Understanding the Leadership Role
- Leadership traits
 - Establishing a leader image
- Day 3. Leadership Tools
- Managing by objectives: seeing the "big picture"
 - Communicating effectively
- Deadline: 5 March.

Undergraduate long-term training applications are now available

Undergraduate Long-Term Training Opportunity - Long-term training refers to the off-the-job training to which an employee is assigned on a fulltime basis and which consists of more than 120 consecutive working days. Such training may be accomplished in either government or non-government facilities.

The trainee receives full salary, tuition, shipment of household goods to the school site and back, and travel for the trainee and dependents to the school site and back. A three-for-one training agreement will be required from each successful applicant.

Eligibility to apply for undergraduate training includes all of the following: NWC employee for three years by September 1986; must be within two years maximum of completing desired undergraduate program, in accordance with CPI 410.10 and NWC Instruction 12410.5L of 30 Sep. 82. At the undergraduate level there is a continuing need in the following area: Computer Science (in a specialization other than that offered at NWC); Electrical Engineering; Acquisition/Contracting; Financial Analysis/Cost Accounting with A.D.P. background; Audio Visual Production; Graphic Arts Design; Management Information Systems; Occupational and Safety Specialists.

Eligible applicants will be ranked on the following relevant criteria: grade point average in previous college courses; past self-development efforts; plans for utilization of requested training. As identified by LTT Committee, the most highly qualified applicants will be selected according to the Long-Term Training Handbook (NWC IDP 3511 of May 83).

In support of affirmative action initiatives, additional billets have been added to the program this year. Applications can be obtained from Nancy Saxton, Code 094, Completed applications should be returned to Nancy Saxton or Carol Corlett of the Personnel Department, Code 094, no later than 4:30 p.m. of Feb. 28, 1986.

INTRODUCTION TO TECHNICAL MANAGEMENT*

26-28 March; Thursday-Friday; 26-27 March, 0800-1600; 28 March, 0800-1130; Training Center. By: Dr. Ed Alden, Federal Executive Institute.

Scope: This course will help the technical professional who is facing the choice of continuing in the technical field or making the transition to management to make a more informed career decision.

You should be better able to answer the question, "Do I want to become a technical manager?"

Topics include values (individual and professional), their impact on our careers; individual and organizational behavior; what it takes to be a successful technical manager; why technical managers fail; easing the transition/transformation from technical performer to technical manager; managing your own and others' time; and career/life planning and development framework.

*This is the same course as the TMC Program Management Part I. Because of overenrollment in the 1-3 October class, this class has been retitled and opened Centerwide to non-TMC students. TMC students may also apply and get credit.

Deadline: 3 March.

MODERN DIGITAL SIGNAL PROCESSING WITH APPLICATION TO RADAR

31 March-3 April, Monday-Thursday, 0800-1600, Training Center.

By: Chrysostomos L. Nikias, Ph.D., Assistant Professor of Electrical and Computer Engineering, Northeastern University, Boston, MA; and Anastasios N. Venetsanopoulos, Ph.D., Professor and Chairman of the Communications Group, Department of Electrical Engineering, University of Toronto.

Intended Audience: Engineers, scientists, programmers, and technical and system managers who need an up-to-date understanding of recent advances in digital signal processing with application to radar.

Prerequisite: You should have knowledge of digital signal processing and introductory probability and linear system theory.

Scope: This course will enable you to understand modern techniques in digital signal processing such as array processing, multichannel spectral analysis, bispectral analysis, detection of signals in low SNR, time-delay estimation, real-time and nonlinear image processing, artificial intelligence and digital pattern recognition, and linear prediction. The course will emphasize the application of these techniques to radar.

Note: Each student will receive a copy of the textbook *Array Signal Processing*, by S. Haykin (Ed.), Prentice-Hall, Inc., 1985.

Deadline: 10 March.

POSTPONEMENT OF INTRODUCTION TO SYSTEMS ENGINEERING SYSTEMS ACQUISITION to

2-4 April 1986, 0800-1600, Training Center. By: Prof. Benjamin S. Blanchard, Virginia Polytechnic Institute and State University, Blacksburg, Va.

Prerequisite: A baccalaureate degree in some scientific or engineering field is preferred, along with some government experience associated with system projects.

Scope: The purpose of this course is to give you an exposure to the system engineering process and some of the key disciplines related to this process. The objectives are

- To give you a basic knowledge of the system engineering process and its application—system requirements definition, functional analysis, and allocation, etc.
 - To help you become familiar with some of the key disciplines related to this process—reliability engineering, maintainability, human factors and safety, logistics, etc.
 - To introduce you to some of the tools and techniques employed in system analysis—economic and life-cycle cost analysis, reliability and maintainability analysis, level of repair analysis, modeling, etc.
 - To help you become familiar with the management aspects for implementing a system engineering program.
- Note: This is an open class and is not part of the Technical Managers' Certificate Program.

Deadline: 10 March 1986.

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