

CONTEST WINNERS — Showing the three winning posters in the poster contest honoring American Heritage Week are the winning artists and Capt. P. D. Stephenson, Chief Staff Officer. Winners are (l. to r.) Greg Webb, third place; AG3 Brenda White, first place; and Elaine Mikkelsen, accepting second place for the Child Care Centers.

Heritage Week . . .

(Continued from Page 1)

Wednesday the lawn area in front of Headquarters Building will be the site of international sporting events. From 11:15 until 11:45 a.m. participants in the 5-kilometer fun run can sign up so they'll be ready when the starting gun goes off at 11:45. The living chess game (with Center personnel taking the role of chess pieces) starts at 11:30 and lasts until noon. A karate exhibition begins at 11:55 a.m. and a gymnastic exhibition will start at noon. Food will be on sale at Administration Circle for anyone who prefers not to brown-bag.

Music and dancing will highlight Thursday's events on the lawn at Headquarters, again during the lunch hour. And food will again be on sale. At 11:30 a.m., the

Barbershoppers will sing, to be followed by Tahitian dancers at 11:40 and Bluegrass music at 11:50 a.m. Break dancers will show off their spectacular skills starting at noon and Hispanic folk dancers will complete the day's events.

Friday's fine arts display, showing arts and crafts, will be at the Flight Deck Room of the Enlisted Mess, where, of course, lots of food is available. Everyone is invited to enjoy the beautiful objects on display.

American Heritage Week will replace the variety of special events previously sponsored by the Equal Employment Opportunity program. Everyone is invited to take part to "Celebrate the Differences" whose interactions have created the culture that is uniquely American.

Fair gets underway next Wednesday Tryouts set

"Saluting the Statue of Liberty Centennial" is the theme of the 26th annual Spring Festival being held May 21 through 25 (Wednesday through Sunday) at the Ridgcrest Fairgrounds.

Opening the vacation and fun season in the Indian Wells Valley, this annual community event, sponsored by the Knight of Columbus, enables the various local organizations an opportunity to raise money to help finance a wide range of services and charitable activities. It also provides fun and an opportunity to frolic with old friends and to meet new ones.

This year's celebration will open with a gala flag raising ceremony on Wednesday, May 21 at 6 p.m. The fairground gates will be open from 5:30 p.m. on Wednesday through Friday and at 12 noon on Saturday

and Sunday. General admission to the fairgrounds is \$1; children under 12, free; and \$5.00. Senior citizens and handicapped persons. Entrance to the fair grounds will be from the north gate only. The Richmond Street gate is closed to all traffic. All auto parking will be free in the north parking lot. Parking will be supervised. Handicapped parking is available by the north gate entrance.

Wednesday, May 21 only, is the Red Garter Day Special. Garters will be sold on the grounds for \$4 and will enable the purchaser to ride the Midway free all day.

Entertainment will include free commercial exhibits and wares on display in Joshua Hall and the Midway; plenty of food booths to tempt the appetite; challenging fun games; and live stage shows will be

held nightly.

B & B Amusements will be providing the exciting rides on the Midway. A minimum of three spectacular rides will be available for the people who dare. Cost of rides on the fairgrounds is \$.70 for children rides, \$1.06 regular rides and \$1.50 for spectacular rides.

Advance tickets may be purchased for discount ride tickets now at the Information, Ticket and Tour Office, corner of Blandy and Lauritsen; Ridgcrest's Chamber of Commerce, corner of Church and S. China Lake Blvd.; and throughout the area wherever the Spring Festival Posters are displayed. Advance tickets are sold in 10-ticket units and are \$5 per unit. Each ticket is good for any ride on the Midway.

Tryouts for the Community Light Opera Theater Association's (CLOTA) summer production of the Lerner and Loewe classic "Camelot" are fast approaching. Karen Buehler is the director of this musical tale of the Arthurian legend and notes that the script offers a wide variety of parts for singers, dancers and actors.

Auditions are set for Sunday, May 18 from 1 to 4 p.m. and Monday through Thursday, May 19 to 22, from 6:30 to 9:30 p.m. at the CLOTA building, 1425 N. Inyo (two blocks south of the drive-in). Scripts are on reserve at the Kern County and Naval Weapons Center libraries. Production dates for "Camelot" are July 18, 19, 24, and 26.

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)

Movies

FRIDAY, MONDAY	"IRON EAGLE" Starring Louis Gossett Jr. and Jason Gedrick (Action, rated PG-13, 117 min.)	MAY 16, 19
SATURDAY, SUNDAY	"YOUNG SHERLOCK HOLMES" Starring Nicholas Rowe and Alan Cox (Mystery, rated PG-13, 109 min.)	MAY 17, 18
WEDNESDAY	"BETTER OFF DEAD" Starring John Cusack and Curtis Armstrong (Comedy, rated PG, 95 min.)	MAY 21
FRIDAY	"ELENI" Starring Meryl Streep and Robert Redford (Political/Drama, rated PG, 117 min.)	MAY 23

Starting Times: Matinee / 2 pm Evening / 7 pm

GI 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. 40005

FROM: _____ PLACE STAMP HERE

TO: _____

Center joins Model Installation Program

Since January 1, the Naval Weapons Center has been one of 12 Naval installations world-wide participating in the Model Installation Program (MIP) experiment endorsed by the Office of the Secretary of Defense.

Dave Hamilton, Program Manager (Code 02A21) said it is an honor to be selected as a Model Installation and noted the program offers the NWC Commander the opportunity to improve efficiency of Center operations by challenging unnecessary administrative restrictions.

This program's goals are to encourage innovative approaches and efficiencies in Center management and make DOD in-

stallations excellent places to live and work. Current MIP thrust is to (1) push authority and responsibility to lowest organizational levels, (2) introduce more competition, (3) strengthen incentives to save money and (4) improve defense readiness and capability.

The Model Installation Program is designed to provide a rapid, effective means of getting waivers to rules, regulations, policies and practices impeding efficient management. Many of these directives may have made sense when they were adopted, but have now become obsolete. The MIP process presumes employees and

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IAAS aims for increased mission efficiency

Modern avionic technology is leading to a proliferation of sensors, countermeasures and support avionics even as new enemy threats are identified. Aircrews soon will be unable to perform their mission effectively unless the technology that threatens to overwhelm them is used to help them also. Three primary goals of the Intelligent Air Attack System (IAAS), now in early development stages at the Naval Weapons Center, are increased mission effectiveness, reduced aircrew workload and increased survivability.

IAAS uses systems integration techniques and artificial intelligence (AI) to create an avionics suite that keeps workload at a manageable level while enhancing aircrew ability to perform air-strike missions. NWC personnel currently are at the simulation stage as they investigate interaction of AI systems and aircrew performance. Using an Aircrew Interface Simulator, newly developed AI modules will be evaluated.

Gordon McElroy, head of Code 3152 (Human Factors Branch), recognizes the need for AI software to be transparent to the user, reliable, compatible with existing systems and capable of improving survivability in combat situations. Also, IAAS developers stress the pilot must be allowed to select the degree of assistance desired. This system must remain lucid during normal operation, but retain the capability of interrupting the crew in emergency or critical situations. In addition, the system must be subject to aircrew override at any time.

Dale Robison, project leader of IAAS in Code 3152, noted that while IAAS is not designed to replace the aircrew, it allows them to request AI assistance to handle certain functions, thus freeing them to concentrate on those functions where the human element is more critical.

The AI symbolic reasoning will allow the system to interact with the pilot and tell him why a decision was made. One example of this capability is allowing the pilot to visually verify a ship's Inverse Synthetic Aperture Radar (ISAR) image which has the primary classification features labeled by the system. By adding this verification capability, the pilots' confidence level is increased, leading to a similar increase in his productivity. An important task is performed with minimal pilot effort, yet the pilot is still making the decisions.

IAAS consists of three intelligent (rule-based) modules and a cockpit simulator testbed. The three intelligent modules are: the Electronic Warfare Module, the ISAR Targeting Module and the Aircrew Interface Module (AIM).

The EW module was developed by Mike Conklin from the Electronic Warfare Department's Special Projects Branch (Code 3544). The EW module's primary purpose is to analyze the Radar Warning Receiver signals and determine what countermeasures are to be used to defend against any threats to the aircraft. It will activate the missile detector system when needed and upon missile detection will determine the weapon type and the appropriate defensive response. Systems which are automated will respond and the pilot is notified by means of messages to the AIM. The aircrew in turn will control the EW module through the AIM.

The targeting module was developed by Jay Hodges from Code 31's Target Recognition Systems Branch (Code 3158). The module analyzes ISAR signals and displays target imagery to the aircrew while highlighting critical classification features. This is accomplished by performing complex noise filtering of the raw ISAR data and then us-

(Continued on Page 7)

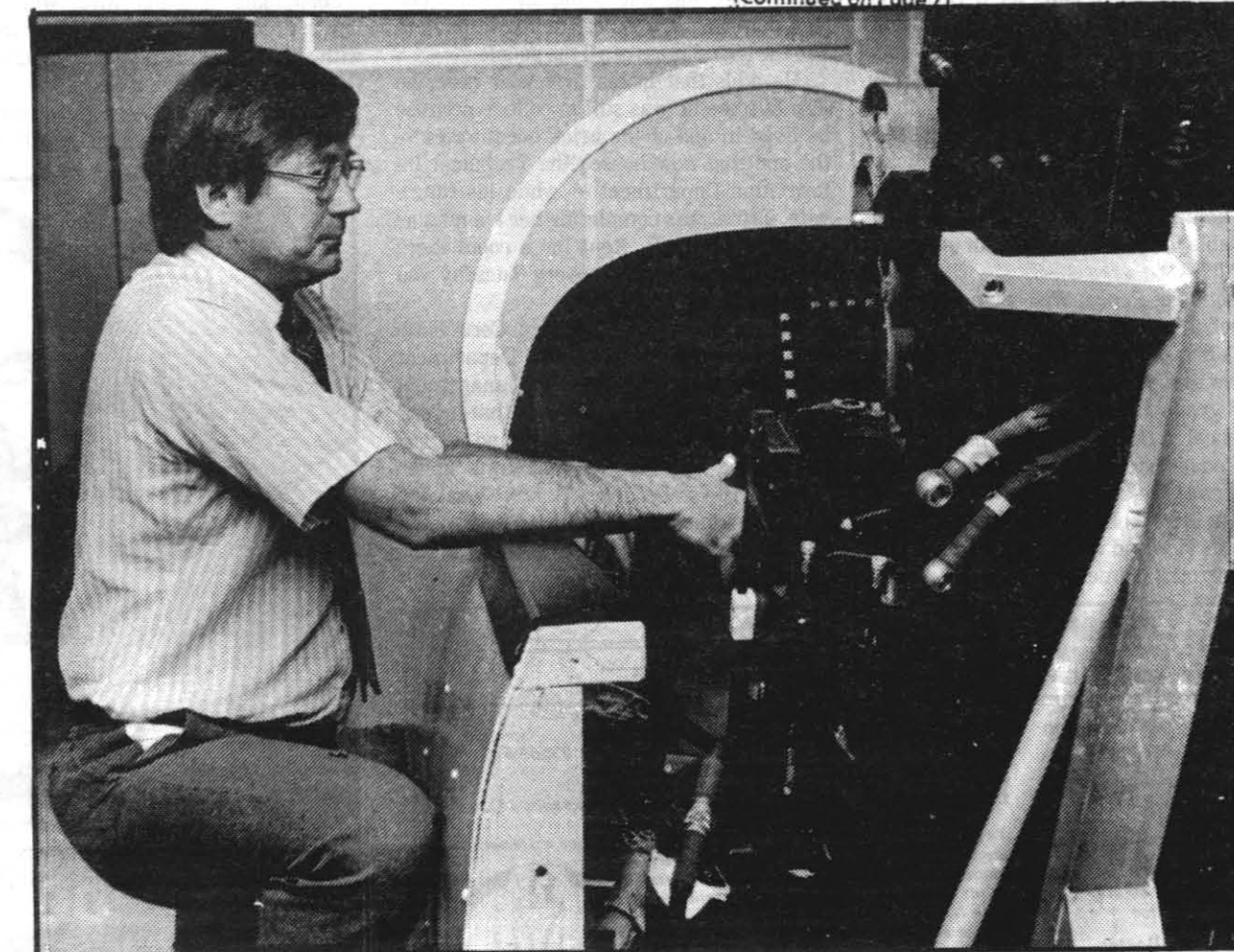
'Differences' set as theme next week

"Celebrate the Differences" is the theme of next week's American Heritage Week celebration to be held at China Lake. All civilian and military personnel are invited to take part in as many of the events highlighting the week as they can. There's something to suit everyone's interest!

Beginning the week will be a reception at the lanai of the Commissioned Officers' Mess from 5:30 to 8 p.m. A Dixieland Jazz Band will play from 5:30 p.m. until the program begins at 7 o'clock with the entrance of Colors. A program will feature the Shoshone Tribe, folk dancers and gospel singers before the annual Equal Employment Opportunity Awards are presented.

Tuesday will be costume day, with everyone invited to wear a costume (including military personnel) depicting their ethnic or national origins. Those who choose not to wear a costume are encouraged to wear a sign denoting what their own heritage is. During the lunch hour ethnic foods from a wide range of cultures will be on sale at food booths at Administration Circle in front of the Headquarters Building. (Food will be on sale from 11:30 a.m. until 12:40 p.m., or until the food runs out, whichever is sooner.)

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IAAS COCKPIT — Dale Robison, project leader for IAAS, looks over the generic cockpit used by Code 3152 in working on the Intelligent Air Attack System at the Naval Weapons Center. Jay Hodges from Code 31's Target Recognition Branch and Mike Conklin of the Electronic Warfare Department's Special Projects Branch were members of the team working on development of the project.

NEX News

In honor of Armed Forces Day, the Navy Exchange retail store will offer a 20 percent reduction on the already low price of Pauling jewelries. The sale will run from today through May 18th.

A special Memorial Day sale will follow, starting May 21 and running through May 26 with a wide variety of bargains of all sorts. Also upcoming is another Super Sunday Sale on May 25. Early bird specials will be on sale from 10 a.m. until noon on that day.

Cubs sought

Cub Scout Pack 341 will have an open pack meeting Monday, May 19 at 7 p.m. Boys who are 8 to 10 years old and interested in joining Cub Scouts should attend the meeting being held at the East Wing of the All Faith Chapel.

For more information on the Cub Scouts, contact Dan or Sally Harris at 375-6978.



	Max	Min	Peak Gust
1.	85	52	22 knots
2.	83	60	28 knots
3.	86	52	26 knots
Mon.	87	45	18 knots
Tues.	94	50	23 knots
Wed.	94	58	31 knots
Thurs.	92	67	21 knots

All measurements are made at Armitage Airfield.



Start the week right with a delicious meal at the Commissioned Officers' Mess. Every Sunday the COM offers a brunch from 9:30 a.m. to 1:30 p.m. for only \$4.95 per adult, \$2.95 per child aged 7-12, \$1.95 per child aged 2-6, with children under 2 eating free.

The Enlisted Mess will be closed tomorrow (Saturday) night due to the Burroughs High School Prom. However, the bar will be opened normal hours to authorized members and guests.

Authorized patrons and guests are invited to disco to the music of "UPSTAGE" this Wednesday, May 21, at the Enlisted Mess from 8 to 11:30 p.m.

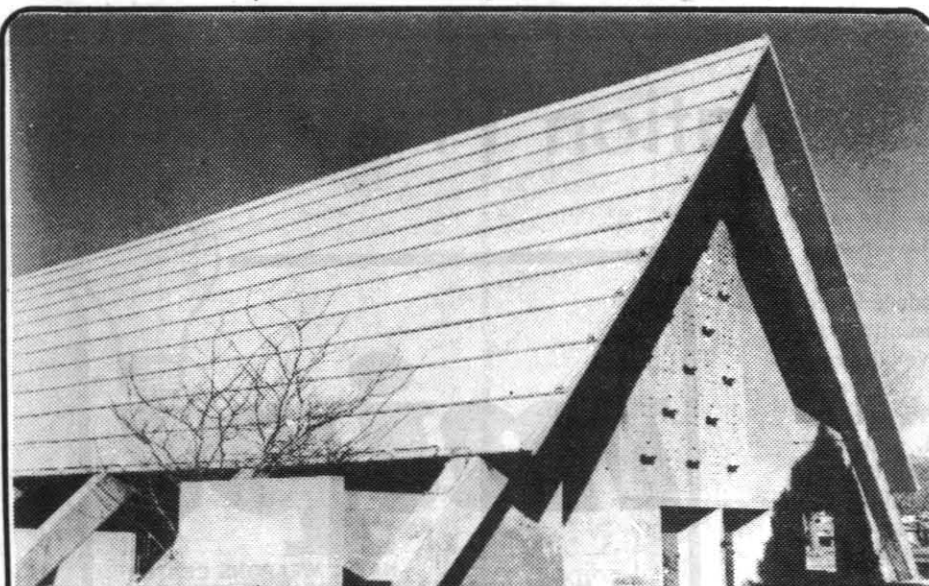
The Chief Petty Officers' Mess invites authorized patrons and guests to the Fleet Reserve Association's dinner dance tomorrow (Saturday) beginning with a no-host social hour at 6 p.m. A two-meat buffet dinner featuring steamship round and ham will be served at 7 p.m. Entertainment by the dynamic group "SIVA" will be provided for dancing and listening pleasure from 9 p.m. to 1 a.m. Cost of this night's entertainment is \$8.25 per person. Reservations are recommended but not required.

Tomorrow night a formal black tie dinner dance will highlight the fifth anniversary celebration of the Black Original Social Society (BOSS). The public is invited to attend the dinner dance at the Desert Empire Fairground Exhibit Building and tickets at \$15 a person can be purchased at the door.

The evening will start with a no-host social hour at 7 o'clock, followed by a ham and turkey dinner with all the trimmings, including cheesecake. After installation of BOSS officers, dancing will finish the evening.

A bike ride to raise money for the Maturango Museum will be co-sponsored by the museum and T.J. Frisbee tomorrow from 8 a.m. until 3 p.m. Both riders and people to pledge money for the museum are needed. Riders who collect \$25 or more in donations will receive a special T-shirt and each rider collecting \$50 or more will receive a gift certificate at T.J. Frisbee's equal to 10 percent of the amount they raised. The rider turning in the largest amount of money will be eligible to receive a bicycle donated by Frisbee.

Riders and pledgers are needed, as well as volunteers to staff checkpoints. Anyone wishing to help should telephone the museum at 446-6900 or Pat Brown-Berry at 375-5518.



Divine Services

PROTESTANT

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

Wednesday 11:30 a.m. Sept. through June
 Thursday 7:00 p.m. Officer's Christian Fellowship
 Christian Military Fellowship
ROMAN CATHOLIC

SUNDAY MASS 9:00 a.m.
 CONFESSIONS (Sunday) 8:15-8:45 a.m.
 COMMUNION SERVICE (Monday) 11:35 a.m.
 DAILY MASS (Tuesday through Friday) 11:35 a.m.
 CONFESSIONS (Friday) 4:30-5:00 p.m.
 RELIGIOUS EDUCATION CLASSES (Sunday) Sept. to May 10:30 a.m.

JEWISH

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

Chaplain J. Milton Collins, Capt., CHC, USN
 Chaplain A. J. Smith, Cdr., CHC, USN
 Hearing impaired equipment available. Nursery available.
 Phone NWC ext. 3506, 2773

Protect kids from poisoning

Be careful while using poisonous substances if children are in the home. Don't rely on constant supervision.

Buy a bottle of syrup of ipecac and keep it where you can find it fast. Don't forget to tell your babysitter where it is. Post the number of the nearest poison control center by the phone and call immediately if poisoning is suspected. Don't give syrup of ipecac unless told to do so by the poison center.

The only exception to the "call the poison center first, treat later," rule is when any substance has gone into the victim's eye, where substances that are otherwise harmless can cause problems. Flush the eye with a gentle stream of water, then call the emergency room for help. If there are two persons present, one can flush the victim's eye while the other calls the emergency room.

Never tell a child medicine is "candy." Keep your purse and the child's diaper bag zipped or snapped — both often contain items such as medicines, cigarettes and cosmetics that are both poisonous and attractive to children.

Throw away unused portions of prescription drugs. If you have small children, buy small sizes of any over-the-counter drugs you take to reduce the chances of a child taking a large amount.

Keep all dangerous substances in their original containers. NEVER put poisonous substances in empty food or drink containers.

Awards luncheon planned

The L.T.E. Thompson and William B. McLean Awards will be presented on Friday, June 6, during a luncheon in honor of the recipients. The luncheon will be held at the Commissioned Officers' Mess starting at 11:30.

The William B. McLean Award, established in 1968, honors employees for their outstanding creativity in furtherance of the Center's mission through significant inventions.

Reservations for the awards luncheon can be made by calling NWC ext. 2592 no later than 4 p.m. Monday, June 2.

Menu selections are either stuffed avocado with chicken salad or sirloin tips with noodles at \$5 each.

CAMPS demonstration set

Personnel from COMARCO's Mission Planning Division will demonstrate their Computer Aided Mission Planning System (CAMPS) at the Ridgecrest COMARCO Building from 2 to 5 p.m. Monday, May 19.

The Defense Mapping Agency digital terrain elevation database is used to establish the topography of the region requested for mission or scenario evaluation.

The presentation is unclassified, but a current clearance should be on file with COMARCO. For additional information call Beryl Flood of COMARCO at 446-7671, ext. 398, or Ted Fincher of Code 3625 at NWC ext. 3616.

Rabies clinic slated tomorrow

Vaccination for rabies and a dog licensing clinic will be held tomorrow, May 17, at the Kern County Fire Department, 308 Orchard Street, Inyokern, from 9 a.m. to 12 noon; and at the Community Building, 120 S. Warner, Ridgecrest, from 2 to 4 p.m.

Rabies vaccinations will cost \$3 each; licenses are \$10 with a special price of only \$1 for spayed or neutered animals.

Cortichiato appointed to new job in Code 24

Don Cortichiato is the new Deputy Director of Safety and Security, moving to that job from his former position as head of staff for Code 24.

He says that working in the Safety and Security Department calls for a variety of skills because, in his words, "Almost never is there an issue you need to deal with that's completely black and white. You have to be able to go by the regulations imposed, and yet you must always be practical in how you apply these regulations. You must, above all, be appreciative of what's going on in the rest of the Center and be able to interface well with everyone on board."

The native of Pence, Wisconsin ("a place that probably had 300 people in it, maximum") brings a wide-ranging background to his new assignment.

After graduating from John Burroughs High School in Burbank, California, he then completed his bachelor's degree in business economics at the University of California at Riverside. He took the entrance test for federal service and was subsequently hired into the management intern (now administrative junior professional) program at NWC in late 1971.

"It's a fantastic program," he enthuses. "What a great way to learn about a variety of operations at the Center! Coming to China Lake was like being back on a college campus because of the facilities here and the friendliness of all the people."

(He adds that in his first year here, he also felt like he was still in college because he lived in one of the brick dormitories — the one that now houses the Technical Information Department — while his future wife, Erma, was completing her training as a teacher at UCR. Rent for a room there was \$28 a month, and "every Tuesday you got fresh linens.")

After a series of JP tours, Cortichiato went to work in the Personnel Department where he was a Personnel Management Advisor for five years. He says that he and Roy Parris, Director of Safety and Security, worked together at that time under Burrell Hays because Parris was the budget advisor for the Engineering Department while he was PMA for the organization.

Cortichiato then got involved with labor relations, working closely with Bill Davis, a former head of Code 24, before accepting the position of head of staff for that department in 1981.

Cortichiato and his wife, who teaches fourth grade, spend much of their free time with their four daughters: Michelle, 9; Carrie, 8; Tracy, 5; and Kelly, 3.

The family enjoys camping, especially camping on the beaches just north of Santa Barbara, where they tow their tent trailer.

"With both Erma and me working full-time, there doesn't seem to be a lot of free time for much else," Cortichiato says, "when I get done with all the odds and ends that need to be done around the house and some rental property we own, but we both really like to be together with our girls. However, we do try to go out on a 'date' for just the two of us at least once a month."



NEWLY APPOINTED — Don Cortichiato is the new Deputy Director of Safety and Security. — Photo by PHAN Bob Reynolds

IAAS combines efforts of three branches . . .

(Continued from Page 1)

ing averaging techniques over several good images. A series of rules then compares the target's ISAR features with a library of known ISAR characteristics. The result hopefully will be a match of critical classification details which denote a naval ship class. The labels for these critical details then are added to the image and the image is made available for pilot verification.

The system architecture for the Aircrew Interface Module has been simulated at Human Factors by Robison. Presently, the AIM software is being coded in LISP and is expected to be completed in July. The extensive documentation for the system also is nearing completion and has been accomplished on a "SEE-IT" work station using the Excelsior package of software documentation tools. When fully functional, the AIM will determine what information is to be displayed to the pilot on a continual basis, taking into account the pre-mission briefing, the external environment, the EW environment and pilot inputs. It will be subject to in-flight tailoring by the operator as changes in the mission status occur. It also will be capable of notifying the pilot when

the environment detected does not fit within the environment boundaries of the expected scenario.

The IAAS testbed simulator is another major portion of the IAAS project that is now being completed at Human Factors. The testbed is a generic single seat-cockpit simulator connected to a VAX 11/750. Graphics capability is provided by a Genisio GCT 3000 color graphics system capable of running four independent color graphic displays. The cockpit also hosts a simplified set of controls including a control-stick, multifunction displays and elementary arming switches. A projection TV system is planned for providing out-of-the-cockpit situational cues which will be generated by the in-house gantry terrain model linked to the operator's controls. Various scenarios will be driven by a laser video disk recorder which also is integrated into the system.

The goal of the IAAS concept is to increase pilot effectiveness and survivability in a combat environment. Verification of the IAAS, scheduled this year, will compare performance using IAAS imagery and its concepts to pilot performance levels while using existing informational displays. To date, the IAAS project has generated extensive interest on various levels throughout the Navy and the Air Force.

NWC enters MIP . . .

(Continued from Page 1)

other affected individuals are the ones who will provide the best suggestions for increased efficiency.

All Center personnel are encouraged to take part in the MIP by submitting Model Installation Program Initiatives (MIPIs). Military and civilian personnel, their dependents, contractors and persons assigned to NWC tenant commands are all encouraged to participate.

Individuals can take part by submitting MIPIs, a request to waive a particular directive. The MIPI is a written proposed solution to a procedural problem which describes the specific relief requested and benefits anticipated. NWC is allowed to keep any financial savings generated with MIPIs.

Any Model Program Initiative (MPI) should include the following information: the subject area (i.e., payroll, travel, etc.); the governing directive, regulation or instruction number and section or paragraph; a description of the current procedure (problem) and the proposed procedure (solution); and benefits to be derived from the change, including time and dollar savings if any. The originators should also include their name, code, phone number and date. A simple, one-page optional form for MIPIs is available from Code 02A21, NWC ext. 1058. Completed MIPI forms should be sent to Code 02A21 and a copy should be provided to the department point of contact for MIP.

At NWC, the MIP office and cognizant codes will review the MIPIs before forwarding them to the Commander. The NWC Commander is the only individual at the Center who can disapprove a MIPI. If local command approval is granted, a Navy message is sent to the Principal Deputy Assistant Secretary of the Navy (S&L) with information copies to the chain of command. If MIPIs involve cancellation or changes to an internal NWC policy, rule

or practice, they can be approved at the NWC Commander's level.

Once the waiver request leaves China Lake, there is a required three-work-day response at each level in the chain of command. If there is no response within the three-day time limit, concurrence is assumed. Eighty-nine percent of all Navy requests have been approved since the program began in 1984. A high approval rate has been achieved because MIP waiver requests are submitted to headquarters by the commanding officers most familiar with operational bottlenecks.

As a Model Installation, NWC should be a place where innovation is free to flourish and the possibility of failure should not deter the testing of risky ideas. NWC's Commander wants to encourage a "can do attitude, demonstrate flexibility and take an entrepreneurial approach" to restrictions impacting the ability of the Center's employees to get their jobs done.

Center goals for the Model Installation Program include improving the Navy weapons systems acquisition process and enhancing our ability to apply innovative technological advances and more effective use of full-spectrum RDT&E laboratory capability.

Hamilton feels if China Lake personnel can specifically identify obstacles preventing them from implementing efficiencies or improvements in command operations or resource management, there is a good chance the instruction, regulation or law preventing the change can be waived.

He stressed no area is "off limits." Contracting, procurement, travel procedures, housing, personnel, payroll and budget, facilities management, quality of life issues and more can all be addressed through the Model Installation Program. Regulations from agencies such as the Bureau of Land Management, Forest Service and Environmental Protection Agency are also fair game.



CAREER ENDS — AO1 Kenneth D. Grattaroti is piped over the side and takes a final salute as he and his wife, Diane, walk down the aisle lined with sideboys. Petty Officer Grattaroti retired in early May, closing out his more than 20-year Naval career.

Soccer time . . .

(Continued from Page 6)

man and Sean Williams to demolish the Cosmos. The Aztecs' defense, led by Elliot Borden and Colby Begin hasn't been scored on in the last five games.

Strikers 3, Sting 1
 All three goals for the winners were scored by Damon Kelling as the Strikers used excellent hustle and good defense to preserve the win. Mike Ogren had the only Sting goal. Chris Blevens was the top defensive player, and Phillip Nave led the offense.

Division Three Roughnecks 1, Tornados 1
 The Roughnecks, short one player, were led by Natalie Noel and Larry Flores in the tie game. Jason Rainwater, Dean Barnett and Adam Drybread led the Tornados as Bryan Auld scored the only goal.

Sounders 3, Diplomats 0
 Behind two goals from Loren Letsche

and one from Jimmy Ball, the Sounders were easy winners. Tofi Tuipala and Jon Rae were top defenders. No report from the Diplomats.

Surfs 6, Kicks 2
 The Surfs got two goals each from Jeff Bradley and Thomas Watt along with solo scores from Robin Hemmings and Scott Hansen to lead the way. There was no report from the Kicks.

Division Four Whitecaps 5, Rogues 1
 Despite playing shorthanded, the Whitecaps were easy winners. Richard Flores and Randy Marsh had two goals each and Derek Lindsey added the final tally. Carol Stockin was almost flawless in her first game as goalie. Dean Waldron had the only goal for the Rogues, with an assist from Brendan Ledden. Kirk Swasey also played a strong game.

Center sporting briefs

Intramural slowpitch softball action began last week at the Naval Weapons Center with 14 teams competing in two divisions.

League action is scheduled for 5:30, 7 and 8:30 p.m. Mondays through Thursdays at NWC's Schoeffel Field.

Volleyball action in the NWC Intramural League ended Monday, May 12 with GBU winning the "A" Division followed by Mixed Co. in second place. "B" Division teams have been paced by BLM's squad while Just-Here-to-Have-What was holding down

the number two position going into the final night of loop competition.

Sierra Desert Gun Club members will teach a Hunter Safety Class on June 7-8 for area residents needing the class to obtain a California hunting license.

The 15-hour, two-day course will be held at the club's facilities on-board the Naval Weapons Center. Registration will be held in the lobby of the Ridgecrest Police Department on Saturday, May 31 from 9 a.m. to 1 p.m. and Tuesday, June 3, 7-9 p.m. There is a \$10 registration fee.

NWC Rocketeer

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Under-19 team splits weekend soccer clashes

Inland Empire Youth Soccer League teams still can't win on the road in the Under-19 division. The Scorpions hammered a strong Fontana team on Saturday, playing at Davidove Field, 8-1. The next day they turned around and lost 4-3 to a Rialto team beaten earlier in the season by Fontana 6-1.

Coach Karl Kauffman said it just proves the teams can't win away from their friendly home fields.

In their easy Saturday victory, the Scorp were led by Scott Piri's three goals and two assists. Paul Leles added a pair of goals,

both of them on assists from Bill Ledden. Also notching a pair of goals was Joe Pakulak while Doug Dragovich added a solo score and Neil Johnson had an assist.



Sports

CLMRG offering a class on basic mountaineering

Basic mountaineering and mountaineering safety will again be taught by members of the China Lake Mountain Rescue Group starting Tuesday, June 10 and running for six weeks.

Lectures will be held on Tuesdays from 7 to 9 p.m. and practices on Wednesdays from 5 p.m. until dark. No fee will be charged for the class, however, some equipment will be required.

Joining the class, which will be limited to 40 students, requires a demonstration of physical condition. Students must be 16

years of age or older.

Pre-registration for the class is by mail. To pre-register, send name, address, a listing of prior experience (if any) and a list of reasons for wanting to take the course. Also a self-addressed, stamped envelope to: CLMRG, P.O. Box 2037, Ridgecrest, Calif. 93555, ATTN: Daryl Hinman/Bob Rockwell.

Additional information can be obtained by telephoning Mary Wyatt NWC ext. 2951 or 377-5108.

Scorps remain unbeaten with Under-16 age group

Maintaining their unbeaten record the Under-16 Scorpion Soccer Club rolled past the Fontana Jam 4-1 on Saturday. The victory assures the Under-16 squad of at least a tie for the regular season championship of the Inland Empire Youth Soccer League.

Ridgecrest coaches said the Jam was a very physical team, although not as skilled in soccer fundamentals as some other squads have been.

The Scorps scored first as Jim Caves scored off an assist from Matt Mechtenberg. The goal gave the Scorps a lead they never surrendered.

Armando Valdivia continued to have a hot hand, hitting the next two goals for a 3-0 advantage. Late in the first half the Scorps notched their final goal, this one by Matt Ziegler with an assist from Ted Armstrong.

Fontana's lone goal of the clash came early in the second half on a short-field breakaway.

Coaches said the Scorpion defenders played an excellent game. Brian McCrary, John Dykema and Jim Caves were credited with excellent play.

Under-16 action resumes tomorrow (Saturday) when the Scorps visit Barstow to take on the Condors at 11 a.m.

Anglers now doing better

Last weekend the fishing at Lake Isabella could be summed up in one word: terrible.

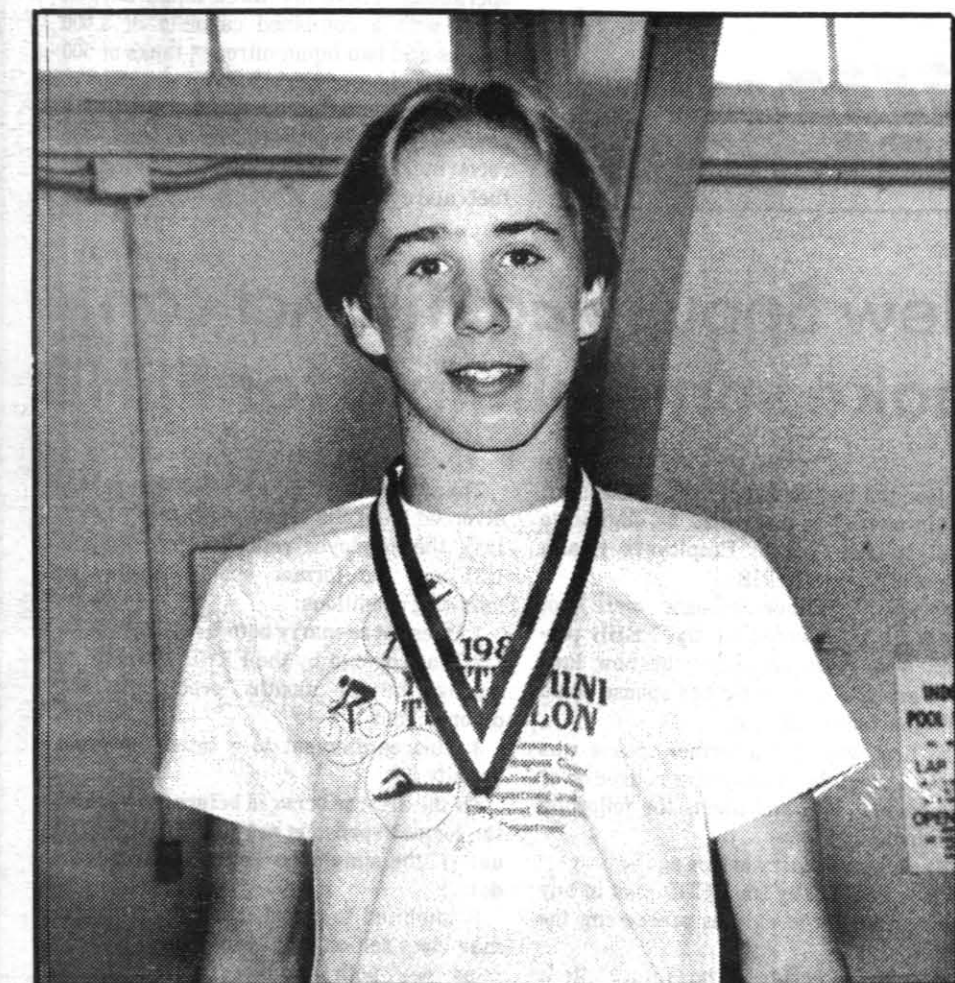
A few bluegill are apparently trying to spawn; some were caught off Rocky Point and other rocky areas by anglers using either worms or meal worms.

A few crappie, measuring from 8 to 14 inches, were picked up in the south fork area and at Rocky Point, and a few bass were caught where there are flooded weeks or in other flooded brushy areas.

Some trout were taken at the main dam and at French Gulch by anglers fishing from shore, and a few salmon were caught by those trolling slowly around the cemetery area.

Best bet for fishing is Brush Creek or Bull Run Creek (or other creeks in which native fish are found). Trout in these streams should be biting well now that the snow is melted.

Both the upper and lower Kern River areas are being stocked regularly



TOP FINISHER — Phillip Zurn was the top finisher in the NWC Youth Mini-Triathlon, completing the course in less than 21 minutes.

Phillip Zurn swims, rides and runs way to victory

Phillip Zurn walked off with the overall victory in last Saturday's Youth Mini Triathlon sponsored by the NWC Recreational Services Department and Ridgecrest Recreation Department. Zurn's winning time of 20:18 also won him top honors in the boys 13-14 class. Robbie Bouse in the same division was second overall with a 21:50 clocking.

Winning the honor was based on combined times for a one-mile run, four-mile bike ride and 125-yard swim in the indoor pool. Contestants were entered as teams or in-

dividuals in five age groups from six to 17 years of age.

The two Saturday mornings preceding this event, contestants were able to take part in conditioning events where they could practice any or all of the events and be timed in them.

First place finishers in each of the divisions were; Raymond Gonzales, Chuck Rouland, Kimberly Harris, Eric Martin, Revelle Bailey, Joey Stokely and Jack Osborne.

Twelve games set on busy Saturday schedule

With 12 games on tap last week, action continued in the Naval Weapons Center's Youth Soccer League.

Division One
Coyotes 5, Owls 0
Behind two-goal performances from Matthew Girardot and Dan Hartley, the Coyotes were easy winners. Frank Gamble added a final tally in the victory. Eric Bignall and Tracie Thornberry, goalie, led the Owls' effort as they bowed despite a good try.

Express 8, Apollos 0
Thanks to three unassisted goals from Vasken Haroutunian and four goals from Chris Potten, the Express were easy winners. Haroutunian accounted for the other goals after an assist from Potten. The Apollos did not return a score sheet.

Rowdies 4, Chiefs 2
Strong defense from Mark Garland and three goals by Neil Covington were keys to the Rowdies' victory in this clash. Louis Moore notched the other goal in the win. The Chiefs picked up goals from Michael Hobson and Kevin Nowicki and had excellent defensive performances from Billy Nelson, Mitchell Fortune and Kenny Kirshenman.

Fury 6, Eagles 1
Jeff Janson, Jason Lint and Daniel Kelling scored for the Fury squad en route to victory. David Estis, in goal, allowed only one score. Jason Ford was credited with the lone Eagles' score while Jon Ford and Kate George were praised for strong performances.

Cobras 4, Roadrunners 1
The Cobras picked up three goals from Jonathon Mikelsen and one more from Dave Verbeck for the win. Meg Frisbee and Kevin Cormett had the assists. Shelbie Hanson and James Swader supported Glenn Baker who had the only goal for the Roadrunners.

Division Two
Timbers 1, Blizzard 0
Joe Tuipala accounted for the only goal of the game. The Timbers were hampered by strong winds, but used a strong defense to keep the Blizzard at Bay. This was the first time this season the Blizzard lost.

Drillers 1, Earthquakes 0
Another 1-0 game found the Earthquakes playing a strong defensive game, but unable to crack the Drillers' goal line. An-

thony George at halfback was the Earthquake standout. Jeff Caruso boomed in the lone goal, while the defense of Garrett Katzenstein, Brandon Lilly and Justin Buckley were keys to the win.

Lancers 2, Sockers 2
Mike Ogren with an assist by Sean Waldren led the Lancer scoring. Jamie Agrelius and Matthew Hill led the defense. The Sockers got goals from Jamie Gribb and Howard Gamble and outstanding play from Brett Becker, Jenny Slater and Donnie Hill.

Aztecs 8, Cosmos 0
Ryan Webb and Brett Juskalian were joined by Scott Tenzycki in leading the Cosmos. The Aztecs used four goals from Miles Ross and two each from Ben Fried-

(Continued on Page 7)



The Skipper Sez...

QUESTION

Civilian employee/Military dependent — I live on base and I have just received a notice from the animal control that our dogs have excessive barking. What I would like to know, we take good care of our dogs, we both are away from home during the day and at night the only times our dogs bark (and this is my question) is when loose dogs are in the area roaming around or when people are out with their dogs walking or jogging, whatever the case may be. It seems like our dogs are getting the blame, yet they are within the confines of the area they are suppose to be and are well taken care of. I am sure our problem isn't just ours; I am sure other people are in the same situation. It seems like our dogs are getting blamed even though other dogs are roaming loose, whether they are with somebody or just out on their own and I would like to know if this is a problem in other areas or what, because I don't feel that we should have to permanently remove our animals when other animals are causing the problem. Thank you.

ANSWER

Your question about who is responsible for dogs on the Center is well taken. The person with the primary responsibility is the owner. Center policy charged them with proper care and control with regards for others. Failure to exercise control can result in the removal of the offending animal from the Center.

The Housing Office, the China Lake Police Department and the Ridgecrest Animal Control Officer also have a part to perform in the control of dogs. The Housing Office will receive complaints and where considered to be warranted will issue letters to occupants. The China Lake Police Department will respond to emergency or problems at any time but are not equipped to contain or transport animals to the Animal Shelter. The Ridgecrest Animal Control Officer does not routinely patrol the Housing Area but will respond to complaints regarding roaming animals and will apprehend them. The Animal Control Officer may be contacted during normal working hours at 375-8157.

It will require the cooperation of all concerned to control this problem. In your case, you are responsible to see that the barking of your dog does not disturb others. Incessant barking, regardless of the cause, infringes on the rights of others to live in peace.

All China Laker, 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.



ENERGY SAVING PAYS OFF — Garyl Smith, head of the Center's Energy Program Office, watches as Linda Mourino, Energy Service Representative for Southern California Edison Company's high desert area, hands NWC Commander Capt. K. A. Dickerson a pair of checks for \$7,257 and \$1,288. Looking on is Dick Verbeck, SCE's District Manager. The larger rebate was given NWC for its replacement of generators with solid state devices, and the other for use of small high efficient variable speed motors. — Photo by PHAN Bob Reynolds

NRS fundraisers planned

Tomorrow's Third Annual B-Mountain Bash is among the highlights of the 1986 Navy Relief Society Fund Drive at China Lake. The drive has topped \$8,000. This was with \$2,500 reported from VX-5 and \$2,000 donated by WACOM.

On May 31 and June 1 a softball tournament will benefit the NRS drive. There is a \$75 per team entry fee. Contact AEC Barry

Hileman at VX-5 or AMS2 Jesse Pickford at NWC for details for edntering a team.

Tickets are still available from key personnel for the annual drawing. The tickets will be on sale in Michelson and Lauritsen Labs today (Friday) and Monday, according to LCDr. Rich Bruce, NRS Fund Drive Coordinator.

Trident facility work wins Commander's Award

Friday morning the Trident II Vertical Test Facility systems installation team — all 18 of them — received the Commander's Award for Excellence in Mission Support.

As Capt. K.A. Dickerson, NWC Commander, made the presentation, he said that this was the highest award that he was able to present.

When a contractor failed to complete the installation on time and didn't maintain the quality standards required for this essential facility, the Instrumentation Branch team of the Range Department was required to finish the work, Capt. Dickerson said.

The letter of nomination written by Dick Boyd, head of the Range Department, points out that "Much of the job had to be completed and some of the contractor's work had to be redone; it included the pro-

urement and installation of equipment and materials valued at \$1,500,000. Over 70,000 terminations and 700,000 feet of wire were installed. Many of the systems installed and the techniques used were new and unfamiliar to the team."

Capt. Dickerson commented, as he handed out the truncated pyramids and letters of commendation, along with a stipend, that comprise the award, that "You saw a job that had to be done, and did it."

Much of it, he added, was done on their own time, such as weekends and over the Thanksgiving and Christmas holidays, with more than 3,900 hours of overtime logged from October 1985 through January 1986.

The letter written by Boyd says that the successful completion of the task required personal sacrifice, dedication, attention to detail and physically arduous work. Some

team members were required to work from 10 to 12 hours a day, six to seven days a week.

Some, the letter says, handled a great increase in workload while they maintained regular Instrumentation Branch services for other projects and all had to handle a high level of stress resulting from keeping a high priority and highly visible program on schedule.

Joining Capt. Dickerson in congratulating the winners of the award were Gerry Schiefer, Technical Director; Bill Porter, Deputy Technical Director and Laboratory Director; Jack Russell, head of the Test and Evaluation Directorate; Boyd; and Crill Maples, head of the Ordnance Test and Evaluation Division in the Range Department.

"You all did an outstanding job and it's appreciated," Capt. Dickerson said.

Award winners included Steven Blanche, Ordnance Equipment Mechanic Helper; Alonza P. Brockwell, Instrument Mechanic; Lawrence L. Byrd, Jr., Supervisory Electronics Technician; Timothy M. Castleberry, Electronics Technician; Michael S. Dunn, Ordnance Equipment Mechanic Helper; Gus K. Gunz, Electronics Worker; Kenneth J. Hagadorn, Electronics Worker; Robert A. Kahley, Electronics Worker; Dale M. Metz, Electronics Technician; Michael C. Mitchell, Electronics Mechanic Helper; John M. Mooney, Electronics Engineer; Larry L. Musgraves, Munitions Destroyer; William G. Neider, Engineering Technician; Robert L. Owens, Electronics Technician; Davis L. Quick, Electronics Technician; Connie R. Reeder, Electronics Mechanic Helper; and Merle L. Sword, Secretary.



TEAM EFFORT REWARDED — The 18 members of the Trident II Vertical Test Facility systems installation team are joined by Capt. K.A. Dickerson, NWC Commander, and Gerry Schiefer, NWC Technical Director, in a group photo after team members were presented

the Commander's Award for their outstanding efforts in getting the facility up and running when a contractor failed to meet the time and quality standards required. This is the largest group ever to receive the award. — Photo by PHAN Bob Reynolds

Gate work set

Currently, flood control work on the main gate area is expected to begin in early July.

When a definite date for the beginning of construction is announced, the Rocketeer will carry a map of the detours that will be employed to ensure that traffic will flow smoothly during the three weeks that construction is expected to take.

Timecards due early

Timekeepers are reminded that timecards are due in the payroll office next week by 4:30 p.m. on Tuesday, May 20, because of the Memorial Day holiday the following weekend.

Those who have any questions should either consult their schedules for early submission of timecards or should contact the Payroll Branch at NWC ext. 2121.

Hurricane abatement tried by China Lakers

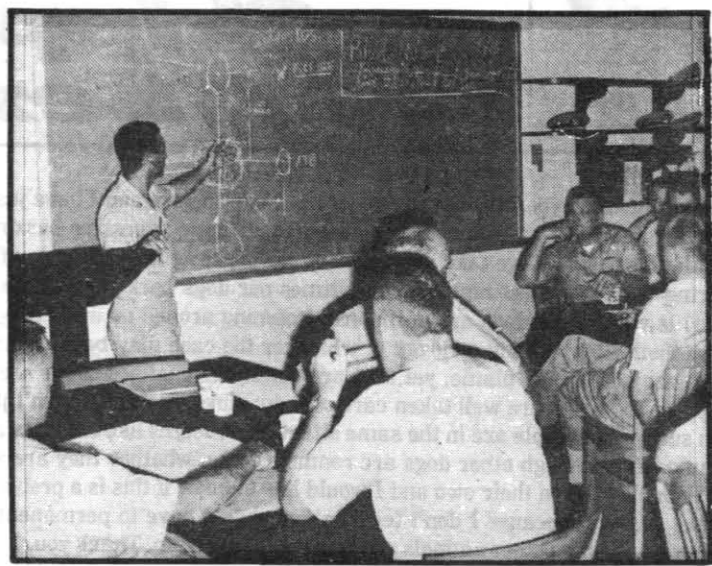
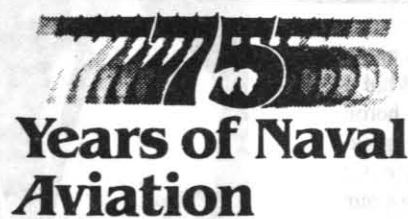
One of the first weather modification efforts attempted at China Lake was in the abatement of hurricanes. The idea behind hurricane abatement was to disturb the cloud and wind before it built to the kind of fury that created such havoc when it hit either populated areas or ships at sea.

The first attempt was with Hurricane Esther in September 1961 when silver iodide spray was dispensed from a dissemination device named Cyclops. Dramatic changes were seen on part of the storm wall.

The Navy and the U.S. Weather Bureau worked together on Project Stormfury for several years. From 1961 through 1974, China Lake personnel monitored hurricanes in the Atlantic Ocean and in the Caribbean Sea.

Among hurricanes seeded were Hurricane Beulah in 1963, Hurricane Debbie in 1969 and Hurricane Hazel in 1971. Storms that could be seeded were very carefully selected to ensure that no problems would result from the seeding.

Analysis of the results of such seeding confirmed a 30 percent reduction of peak winds and an increase in the diameter of the eye of the storm, suggesting a decrease in storm energy.



Next NOTS South picnic June 11

The annual NOTS South picnic will be held on Wednesday, June 11 at 2 p.m. at Kit Carson Park in Escondido.

Jane and Haskel ("Hack") Wilson, former Technical Director, and the committee planning the annual event hope to see many from this area joining them that day to meet old friends and co-workers.

Those planning to attend should bring warm clothing just in case the weather may not be as warm in Escondido as here — on at least one prior picnic, parkas were in order. They should also bring their own food and table service.

To reach Kit Carson Park, travel I-15 south to the Via Rancho Parkway off-ramp, then go east to the fifth traffic light and turn left into the park.



China Lake Police Reports

Personnel at the Commissioned Officers' Mess report some unknown person has stolen the telephone out of the lifeguard's office. When the theft took place is unknown because the phone was there last fall when the pool closed and is no longer in place.

A man reported someone took his personal tools from the welding shop at Michelson Laboratory. The missing items are valued at \$500.

Golf course personnel told police that vandals had damaged four golf carts.

Desert Counseling Clinic personnel informed China Lake police of a case of child molestation involving a girl living in Center housing. The case is under investigation.

A good citizen found a government key in the north compound of Lauritsen Laboratory and turned it in to the police, where it can be reclaimed by its owner.

China Lake police sent an officer to assist Ridgecrest police when a potentially combative individual was taken into custody at Desert Counseling Clinic.

A woman living on Ellis reported that she has been receiving annoying, threatening phone calls. Her ex-boy friend is suspected of making the calls.

A series of three traffic accidents occurring late last week resulted in some damage to all vehicles and injury to one individual. A backing accident on C Street in the pilot plant area resulted in some damage to both cars when one backed into a parked car. Another accident, this one at the east parking lot of the air terminal, also caused minor damage to both vehicles. And when, due to a mechanical problem, a vehicle struck the curb at Switzer Circle, the passenger in the car was slightly injured.

Personnel at the BEQ have been breaking off bits of the wooden picnic tables to use to fire up the barbecues, resulting in a vandalism complaint being filed.

A 13-year-old girl and her mother filed charges of battery against a teacher at Murray School, who reportedly grabbed the victim and shook her, resulting in bruises. The case is under investigation.

A man was arrested for driving under the influence when he was discovered passed out in his car. The car was blocking

the intersection of Randsburg Wash Road and Highway 178.

A mentally disturbed military dependent who attempted suicide was transported to the Medical Clinic for initial treatment and then to Bakersfield for psychiatric evaluation.

Two juveniles — one 13 and one 9 years old — were picked up for breaking holes into the east wall of Vieweg School last Sunday. The case is under further investigation.

Two residents of the BEQ scuffled, one pushing the other into a window and breaking it. The ambulance transported the injured man to the Medical Clinic for sutures.

In a traffic stop at Knox and Stroop, the driver was found to be unlicensed and was cited into East Kern Municipal Court.

A resident on Kearsarge called police to report that three subjects in a vehicle in front of the residence were honking and yelling. By the time that police arrived, the vehicle had departed, but about 40 minutes later the resident received an annoying phone call from a female suspect. The case is under investigation.

Crime and loss prevention to be emphasized by CLPD

China Lake Police Division personnel join with their counterparts in law enforcement occupations throughout the nation in believing that preventing crimes and losses is at least as important as apprehending criminals.

When crimes or losses do occur, China Lake Chief of Police Jim Brown says, they are analyzed to determine why these happened so that they may be prevented in the future. "This," he adds, "we feel is so important that we've added Sgt. Al Spaeth to our staff to serve as Loss Analysis and Crime Prevention Officer."

Sgt. Spaeth, who has been at China Lake since November, brings a quarter century of law enforcement experience to his job. In addition, he is the first China Lake Police Division officer to complete the three-week course at the National Crime Prevention Institute at Louisville, Kentucky, from which he has recently returned.

Under the currently mandated missing, lost, stolen, recovered (MLSR) program, Sgt. Spaeth will analyze loss reports to determine what happened, why it happened and how.

"Our aim," he says, "is to reduce loss rates to zero. Many losses that occur on Center, for instance, really don't involve a crime. I am available to help Center codes plan how to avoid future losses."

He and his team also hope to help Center employees, whether they live in Navy



housing or in town, to make themselves as secure from crime as possible. Sgt. Spaeth is available to give talks, answer questions or consult with individuals or groups. He can be reached by telephoning NWC ext. 2947.

AV-Fuels becomes part of Supply Department

Since Jan. 1 the Aviation Supply Fuel Farm — Liquid Oxygen/Nitrogen Facility — have been part of the Naval Weapons Center's Supply Department, the newest addition to this department.

Lt. John Dean, the former Aviation Supply Officer and Petty Officer Randy Weiss, Aircraft Department AV-Fuels Coordinator, first investigated moving the function into the supply office about two years ago. CWO4 Jack D. Bartlow recently took over as Aviation Supply Officer.

Following an inspection and research by the Naval Petroleum Office last year, NWC has authorized to switch this function from the Operations Division of the Aircraft Department to the Supply Department.

Ruben Gomez was brought on-board as manager of Aviation Supply's operation of the AV-Fuels and Liquid Oxygen/Liquid

Nitrogen Distribution Facilities. Gomez is a retired Navy Senior Chief Petty Officer who had been assistant manager of the fuel storage facility with Mercury Fuel Storage.

The fuel-LOX/LN2 distribution facility is operated by contractor personnel from Mercury Refueling. Jimmie Drum, as manager, supervises 11 employees and various contractor-furnished delivery equipment.

Mercury Refueling as the fuels contrac-

tor is responsible for along side delivery of fuel to NWC, VX-5 and transient aircraft. This allows the Navy to use sailors for actual fueling operation of its aircraft.

The contractor also provides search and rescue fuel support with a 2,000 gallon truck always on standby to provide jet fuel for the NWC SAR helo in the Kern and Inyo County areas as needed.

NWC's aviation fuel storage is accomplished with six storage tanks with a

combined capacity of 400,000 gallons. The facility keeps stocks of JP-5 and JP-4 jet fuel along with 100/130 AV-gas.

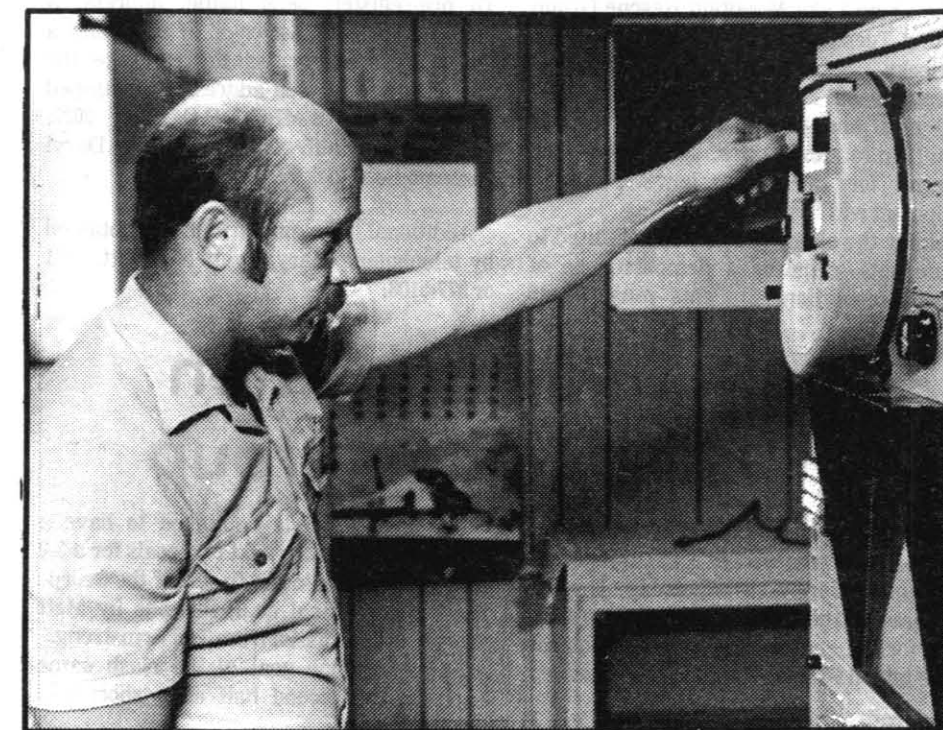
Gomez, facility manager, said the objectives of this operation are to maintain an adequate supply of fuel, deliver the correct fuel to the aircraft in a safe, timely and efficient manner and correct operation of fueling equipment to reduce maintenance and prolong the useful life of such equipment.

At the LOX/LN2 facility, the personnel work to ensure uninterrupted aircraft operations. There are three liquid oxygen tanks with a combined capacity of 3,000 gallons and two liquid nitrogen tanks of 500 gallons each.

Gomez, the contractor and three military personnel assigned are responsible for receiving, store issuing and controlling of fuels and cryogenic products.



Military News



ANOTHER HITCH — Storekeeper Second Class (SK2) George Byrne reenlisted in the Navy earlier this month, after 20 years on active military duty. — Photo by PH2 Rick Moore

New Spouse Equity Act can make some eligible for FEHB

Under the Spouse Equity Act (PL98-615), certain former spouses may be eligible to enroll in the Federal Employees Health Benefit program (FEHB).

Previously former spouses were not eligible to be covered by the FEHB program. This changed under the new law. There are two ways a former spouse could be eligible for enrollment.

The first way is if a former spouse was divorced from the employee or retiree on or after May 7, 1985 and meets the following conditions:

1. Does not re-marry before age 55;
2. Was covered by the FEHB plan at any time during the 18 months preceding the divorce; and
3. Has entitlement to a future survivor annuity.

The second way is if a former spouse was divorced from the employee before May 7, 1985, the employee retired before May 7, 1985 and the former spouse meets the following conditions:

1. Does not re-marry before age 55;
2. Was covered by the FEHB at any time during the 18 months preceding the divorce; and
3. Has entitlement to a future survivor annuity.

(If the divorce occurred before May 7, 1985 the former spouse is not eligible for FEHB unless the employee retired before that date.)

If qualified to enroll, the former spouse may elect self-only or family coverage and must pay both employee and employer share of the FEHB premiums. Inquiries should be directed to Virginia Spille, Code 091, NWC ext. 2592.

Two sailors sign up again

SK2 George W. Byrne was one of two sailors to reenlist for another tour of active duty with the Navy during the first week of May.

Joining Petty Officer Byrne in shipping over was AS1 David Gossage in the Support Equipment Branch of NWC's Aircraft Department.

Petty Officer Gossage has been on board the Center for less than six months, reporting here following a tour with the carrier Carl Vinson. He is a seven year veteran of active duty with the Navy.

SK2 Byrne has been assigned to NWC for two years. He is part of the Aviation Supply Division, heading the Supply Response Branch.

Including time spent in the Marine Corps, Petty Officer Byrne has 20 years active duty military service.

Currently he is responsible for screening aviation supply requisitions for accuracy and ensuring the right parts are in fact ordered.

Softball starts

NWC's Women's Softball team hosted Edwards AFB in a Mojave Desert Inter-Service League clash on Saturday, splitting a pair of games.

The NWC squad took an early lead in the first game, 7-0, and ended up with a well-deserved 15-10 victory. In the second clash, the China Lakers saw a 3-0 lead vanish as they bowed to the Air Force squad 8-5.

Edwards is hosting the 1986 MDISL Softball Tournament on June 6-8 and the NWC team is entered again this year.



RETIREMENT TIME — Cdr. Ron Miller serves cake to his wife and son following his retirement after 20 years in the U.S. Navy last week. Cdr. Miller headed

the Code 61 Airfield Operations Division prior to retirement at a ceremony held in Armitage Field's Hangar 3.



BIG BOOST — Getting the Navy Relief Society fund drive off to a good start is the check for \$2,000 being presented to Lcdr. Rich Bruce by Gunilla Giegerich of the Women's Auxiliary of the Commissioned Officers' Mess and Jayne Guignet, who heads the WACOM Thrift Shop. Lcdr. Bruce is this year's NRS fund drive chairman.

California State University Summer Classes

The following classes are being offered this fall for the Cal-State Chico Computer Science Program (Bachelor's and Master's Degrees), the Cal-State Northridge mechanical Engineering (Master's Degree) and Electrical Engineering (Bachelor's Degree) Programs; and the Cal-State Bakersfield Business (Bachelor's Degree) and Public Administration (Master's Degree) Programs.

Computer sciences courses

CSCI 250: COMPILER THEORY (3 units)
May 3-4; May 31-June 1; June 28-29; Saturday and Sunday, 0800-1600, Training Center. By Professor Orlando Madrigal, CSUC.

Prerequisite: CSCI 151.
Scope: This course is intended as a first course in theory and the translation of programming languages. The course will cover language definition and descriptors, syntax structures, parsing, extraction of elements, symbol table construction, memory allocation, control statements, I/O lists, code generation, error detection and diagnostic generation. Topics include introduction to compiler theory (programming languages, translator types and arithmetic expressions and ALGOL target codes); formal languages; introduction to syntax analysis; precedence parsing; LR(0) and SLR parsing; LR(1), LALR; syntax directed translation; forms of the immediate code; code generation and optimization; run time storage management; and future research.

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

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

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

Prerequisite: CSCI 231.

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

Texts: "Procedural Elements for Computer Graphics," Rogers, McGraw-Hill.

MECHANICAL ENGINEERING AND APPLIED MECHANICS

ME 480: FUNDAMENTALS OF AEROSPACE ENGINEERING (3 units)

June 4-July 30, Wednesdays, 1400-1500 and Thursdays, 0800-1100; Training Center. By Professor Timothy Fox, CSUN.

Prerequisite: AM 316 (Engineering Dynamics and ME 390 (Fluid Dynamics)).
Scope: Atmospheric structure/space environment. Aircraft/spacecraft configurations. Aircraft/missile systems performance: flight envelope, aerodynamic approximations, available propulsion systems, structural form; take-off, landing, climb and range. Introduction to vehicle stability and control.

Text: No text. Instructor will provide instructional material to students.

AM 316: ENGINEERING DYNAMICS (3 units)

June 2-July 29, Mondays, Tuesdays and Wednesdays, 1600-1745; Training Center.

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

1985, paperback (required) and "Fundamentals of Interactive Computer Graphics," Foley and VanDam, Addison-Wesley, 1982 (recommended).

CSCI 270: SYSTEMS DESIGN (3 units)
June 24-August 21, Tuesdays and Thursdays, 1500-1730, Training Center. By Professor John Zenor, CSUC.

Prerequisite: CSCI 171 and CSCI 172.
Scope: This course focuses on the early phases of the system life cycle: systems analysis and design. You will apply the experience gained in prior courses to the design and analysis of a system for a practical problem. Emphasis will be on the project-team approach. Readings will be assigned from the current literature in systems analysis, design and software engineering.

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

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

June 7-8; July 12-13; August 23-24; Saturday and Sunday, 0800-1600, Training Center. By Professor George Aronvick, CSUC.

Prerequisite: Graduate status, senior within 6 units of graduation, or consent of instructor.

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

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

By Dr. Paul Temple, NWC ext. 3247.
Prerequisite: Math 6B (2nd semester Calculus) and Physics 1A (Mechanics).

Scope: ME 316 is an undergraduate-level basic mechanics course. This course introduces the basic concepts and methods used to describe objects in motion. The first part of the course is concerned with the position, velocity and acceleration of single-point objects acted upon by forces. Newton's laws, gravitation, frames of reference, work and energy, impulse, momentum, projectile trajectories and planetary motion will be among the topics discussed. In the second half of the course, we will expand the study to include the motion of objects with physical extent. In this section, we will discuss rotational motion, angular velocity and acceleration, torque, angular momentum and angular kinetic energy.

The student is expected to have had an introductory course in integral calculus. Note: Statics is not a prerequisite for this course; vector normally it is taken first.

Text: "Vector Mechanics For Engineers: Dynamics," Beer and Johnston. McGraw-Hill, 4th Edition.

NOTE: This is a required class for the on-Center Bachelor's program in Electrical Engineering.

EE 360A: LINEAR SYSTEMS (3 units)
May 29-July 25, Thursdays, 1600-1830 and Fridays, 0730-1000; Training Center. By Professor Jagdish Prabhakar, CSUN.

Prerequisite: EE 260 (Electrical Engineering Fundamentals).

Scope: A systematic development of linear system response models in both the time and frequency domains. Concentrates on continuous system models. Techniques developed include Laplace transform, Fourier analysis, impulse response, convolution and state variables for continuous linear systems.

Text: "Signals and Linear Systems," Second Edition Gabel and Roberts, John

Business and Public Administration

MGT 300: MANAGEMENT AND ORGANIZATIONAL BEHAVIOR (Formerly BA 322) (5 quarter units)

June 16-July 17, Mondays and Thursdays, 1600-2100 (1-hour dinner break); Training Center. By Professor Martin Marsh, CSB.

Scope: An introduction to organizational and management concepts and theories with special attention to individual and group behavior, perception, motivation, influence processes, interpersonal communication and international issues.

NOTE: This is a required course for the BS in Business Administration and a required foundation course for the Master of Public Administration program.

BA 490: SENIOR SEMINAR IN BUSINESS ADMINISTRATION (5 quarter units)

June 16-July 17, Mondays and Thursdays, 1600-2100 (1-hour dinner break); Training Center. By Dean Harry Kelsey, Jr., CSB.

Prerequisites: BA 370, BA 374, FIN 300 (Formerly BA 381), MGT 302 (Formerly BA 321) and MKT 300 (Formerly BA 340).

Scope: A terminal integrating course. Analysis of a wide range of policy decisions, with focus on the role of the executive in planning and implementing programs.

NOTE: This is a required course for the BS in Business Administration.

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

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

Scope: The theory and practice of effective management in multicultural contexts is relatively new and is a direct result of more than 10 years of affirmative action process related to realizing a representative bureaucracy. The increased presence of ethnic minorities and women

Engr. 23 required

UNDERGRADUATE ENGINEERING STUDENTS PLEASE NOTE!

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

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

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

Wiley and Sons.
NOTE: EE 360A and ME 316 are classes for the on-Center Bachelor's program in Electrical Engineering.

EE 459: MICROPROCESSOR SYSTEMS (4 units)

June 2-July 29, Lecture on Mondays 1000-1200 and Tuesdays 0730-1000; Laboratory on Mondays 1400-1500. Training Center for Lectures and Cerro Coso Community College for Laboratory. By: Professor Robert Wong, CSUN.

Prerequisite: EE 355 (Theory of Digital Systems).

Scope: Studies of microprocessor architectures and microcomputer systems. Bit-slice, four-bit, eight-bit and sixteen-bit processors. Basic microprocessor software considerations, microprogrammable microprocessors. Microcomputers system design considerations, applications and future trends.

Text: "Microprocessor Systems Engineering," Camp, Smay and Triska, Matrix Publishers Inc., 1979.

NOTE: EE 459 is a senior elective for the on-Center undergraduate degree in electrical engineering. It also carries graduate credit.

within the structures of service organizations and increased services to multicultural communities and clients have provided challenges and opportunities to management and supervisors to reassess traditional supervisory practices. This course will explore those facets of organizational culture which have changed or are in the process of change because of this new presence.

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

FIN 477: FINANCIAL PLANNING (5 quarter units)

August 4-September 4, Mondays and Thursdays, 1600-2100 (1-hour dinner break); Training Center. By: Professor Shakoari, CSB.

Scope: This course is designed to give students a broad and sound background in the concepts and principles of personal finance. The topics include the basic tools of financial planning and money management, such as decisions on spending and investments, protection of assets and income through various insurance vehicles, retirement planning, tax planning and estate planning. The course includes a few case analyses and projects. Students are required to complete a personal retirement plan by the end of the term.

GENERAL COMMENTS

1. Textbooks are available at bookstores locally.

2. Job-related courses other than those listed above must be approved on an off-Center Training Request (DD Form 1556) before registration if NWC is expected to pay for the training. For more information contact Cecil Webb, NWC ext. 2648.



Personnel News & Notes

No. 62 / May 16, 1986

Naval Weapons Center, China Lake, California 93555 6001

Promotional Opportunities

Applications for positions listed in this column will be accepted from current, permanent NWC employees and from eligible employees of attached activities who are permanently assigned to NWC unless otherwise specified in the ad. Alternative recruitment sources may also be used in filling these positions; vacancies are subject to restrictions imposed by the DOD Priority Placement Program. Applicants must meet all legal and regulatory requirements including minimum qualification requirements by the closing date. Applicants will be evaluated on the basis of experience, education, training, performance ratings and awards as indicated in the SF-171 along with any tests, medical examinations, performance evaluations, supplemental qualification statements and/or interview that may be necessary. Career ladder promotions are subject to satisfactory performance and cannot be guaranteed. **APPLICATION PROCEDURES:** Candidates must submit a current SF-171, along with a supplemental qualifications statement (if required), and should submit a copy of their latest Annual Performance Evaluation if relevant to the vacancy. If a supplemental statement is not required, candidates are encouraged to submit additional information which addresses the specific 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. Ask 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. 26-029, Clerk-Typist, GS-322-3/4, Code 2694 — Incumbent will provide clerical support to the Support Services Branch. **Elements:** Knowledge of grammar, punctuation, spelling, proper format; of filing systems and files management. Ability to receive and refer phone calls and visitors; receive and distribute incoming mail; to prepare timecards, personnel forms, travel orders and itineraries. Promotion potential to GS-4.

No. 26-030, Planner and Estimator (Electrician), WD-2805-8, Code 2613 — Supplemental required. This position is located in the Maintenance Control Division of the Public Works Department. The incumbent provides detailed manpower/material estimates in support of facility maintenance for the entire laboratory. Responsibilities include inspection, job write-up, material lists and sketches, construction, alteration, repair and maintenance. **Job Relevant Criteria:** Ability to facilitate production, technical practices; ability to interpret instructions and specifications; knowledge of pertinent materials; knowledge of pertinent tools and equipment.

No. 31-137, Supervisory Interdisciplinary General/Mechanical/Electronics/ Electrical/Physicist/Mathematician/ Operation Research Analyst, DP-801/830/855/1310/1520/1515-3/4, Code 3192 — This position is that of head, A-6E Project Branch, System Engineering Division, Aircraft Weapons Integration Department. As branch head, the incumbent will direct a multidisciplinary staff which provides tactical system design, algorithm development, functional analysis, tactical software design, system and software testing and implementation for the A-6E aircraft. **Elements:** Knowledge of operational software development; knowledge of digital

computer simulation; knowledge of and ability to support NWC EEO Program; ability to lead and manage a project branch. Promotion potential to DP-4.

No. 31-142, Computer Specialist, DS-334-2, Code 3115 — This position is located in the Software Engineering Environment Branch of the Avionics Facility Division of the Aircraft Weapons Integration Department. The incumbent will be the assistant to the personal computer consultant in the branch. The incumbent will be expected to assist the consultant in the hardware and software configuration of personal computer systems; in training and consulting with users in providing diagnoses and repair of personal computer problems and in recommending and implementing local area networks. **Job Elements:** Knowledge of Personal Computers Operating Systems. Ability to work with others at all levels. Ability to plan and organize workload. Promotion potential DS-3.

No. 36-159, Supervisory Quality Assurance Specialist, DS-1910-3, Code 36823 and 36824 — The incumbents will be responsible for implementing quality assurance on NWC programs, provide data for Quality Trend Analysis, audit contractor's quality program to contract requirements and participate in hardware tear-down/evaluations. **Elements:** Knowledge of quality assurance techniques; acquisition processes; willingness to support EEO policies and procedures. Ability to interface effectively with program personnel, Syscom personnel, contractor personnel as well as section personnel. Promotion potential DP-3.

No. 36-163, Interdisciplinary, Supervisory General Engineer/Electronics Engineer/Mechanical Engineer/Aerospace Engineer/Physicist/Industrial Engineer/Chemist, DP-801/855/830/861/1310/896/1320-3, Code 36821 — Incumbent will manage scientists and engineers that create and implement policies and procedures for quality assurance; define technical requirements and estimate cost; provide Quality Assurance training to

No. 36-166, Supervisory, Engineering Technician, DT-802-3, Code 36823/36824 — The incumbent will be responsible for implementing quality assurance on NWC Programs, provide data for Quality Trend Analysis, audit contractor's quality program to contract requirements and participate in hardware tear-down/evaluations. **Elements:** Knowledge: Of quality assurance techniques; acquisition processes; EEO policies and management techniques. Ability: To interface with program personnel, Syscom personnel, contractor personnel as well as section personnel. Promotion potential DP-3.

No. 36-160, Supervisory Quality Assurance Specialist, DS/DP-1910-3, Codes 36863 and 36864 — The function of these positions are to provide technical and administrative guidance to an R and M assurance section in the implementation of complete R and M assurance efforts to any of a number of weapons programs. These efforts will include such things as monitoring contractor implementation of contract R and M requirements; participate in problem investigations and corrective actions; support to failure reporting, analysis and corrective action programs; review of contractor data and documentation; and other related tasks. **Elements:** knowledge of R and M program provisions reflected in such documents as MIL-STD-785; willingness to support EEO policies and procedures. Ability to work as a member of a technical team; communicate orally; and communicate in writing. Promotion potential DP-3. (2 Positions)

No. 36-161, Supervisory Quality Assurance Specialist, DP-1910-3, Code 3683 — This position is head of the Metrology Branch. The branch is responsible for managing the Navy Metrology Calibration (METCAL) Program at NAVWPNCEN. The Metrology Branch is classified as a Type 3 Calibration Laboratory ensuring measurement accuracy to the required levels and providing measurement traceability to the National Bureau of Standards. The incumbent represents the NAVWPNCEN in all matters concerning METCAL Programs, determines and sets program goals, coordinates METCAL efforts with other facilities. **Elements:** Ability to communicate orally; communicate in writing; conduct studies; and present technical findings. **Knowledge:** Of the METCAL Program, EEO policies, safety regulations. Promotion potential DP-3.

No. 36-165, Supervisory Engineering/Electronics Technician, DP-802/856-3, Code 3683 — This position is the head of the Metrology Branch. The branch is responsible for managing the Navy Metrology Calibration (METCAL) Program at the NAVWPNCEN. The Metrology Branch is classified as a Type-3 Navy Calibration Laboratory ensuring measurement accuracy to the required levels and providing measurement traceability to the National Bureau of Standards. The incumbent represents the NAVWPNCEN in all matters concerning the METCAL Program; supervises and directs the work of the Metrology Branch; monitors the progress of METCAL efforts with other facilities. **Elements:** Ability: To communicate orally; communicate in writing; conduct studies and present technical findings. **Knowledge:** Of the METCAL Program, EEO policies, safety regulations. Promotion potential to DP-3.

No. 36-162, Interdisciplinary Supervisory General, Mechanical, Electronics, Chemical, Industrial Engineer/Physicist, DP-801/830/855/893/896/1310-3, Code 36863/36864 — The function of this position is to provide administrative and technical guidance to an R&M assurance section in the implementation of complete R&M assurance efforts to any of a number of weapons programs. These efforts will include such things as monitoring contractor implementation of contract R&M requirements; participate in problem investigations and corrective actions; support to failure reporting, analysis and corrective action programs; review of contractor data and documentation; and other related tasks. **Elements:** Knowledge: Of R&M program provisions reflected in such documents as MIL-STD-785 and EEO policies. Ability: To work as a member of a technical team; to communicate orally and communicate in writing. Promotion potential DP-3. Two positions.

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

branch personnel; prepare/review Quality Assurance Program Plans (QAPPs); conduct internal audits of NWC quality programs; review drawings, specifications and other program documentation for quality adequacy; prepare/review mandatory inspection requirements; operate the Product Evaluation Laboratory; and develop QA History Data Files. **Elements:** Knowledge: Of EEO policies, Quality Assurance Techniques, NWC Quality policies and procedures. Ability: To communicate orally; and communicate in writing. Promotion potential DP-3.

No. 36-164, Supervisory Interdisciplinary General, Electronics, Mechanical, Aerospace Engineer/Physicist, DP-801/855/830/861/1310-3, Code 3683 — This position is the head of the Metrology Branch. The branch is responsible for managing the Navy Metrology Calibration (METCAL) Program at the NAVWPNCEN. The METCAL Program was established under the Secretary of the Navy. The Metrology Branch is classified as a Type-3 Navy Calibration Laboratory. The METCAL Program ensures measurement accuracy to the required levels and provides measurement traceability to the National Bureau of Standards. The incumbent will supervise a group of Engineers/Technicians/Specialists. The incumbent represents the NAVWPNCEN in all matters concerning the METCAL Program and directs the work of the Metrology Branch; monitors the progress of METCAL Programs; determines and sets program goals; coordinates METCAL efforts with other facilities. **Elements:** Ability: To communicate orally; communicate in writing; conduct studies; and present technical findings. **Knowledge:** Of the METCAL Program, EEO policies, safety regulations. Promotion potential DP-3.

No. 36-165, Supervisory Engineering/Electronics Technician, DP-802/856-3, Code 3683 — This position is the head of the Metrology Branch. The branch is responsible for managing the Navy Metrology Calibration (METCAL) Program at the NAVWPNCEN. The Metrology Branch is classified as a Type-3 Navy Calibration Laboratory ensuring measurement accuracy to the required levels and providing measurement traceability to the National Bureau of Standards. The incumbent represents the NAVWPNCEN in all matters concerning the METCAL Program; supervises and directs the work of the Metrology Branch; monitors the progress of METCAL efforts with other facilities. **Elements:** Ability: To communicate orally; communicate in writing; conduct studies and present technical findings. **Knowledge:** Of the METCAL Program, EEO policies, safety regulations. Promotion potential to DP-3.

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

No. 39-020, Security Specialist, DA-080-1, Code 39 — Incumbent provides detailed and comprehensive security administration for compartmented top secret DOD research and development efforts. Travel may be required. **KSAs:** Knowledge of security procedures and requirements; skill in written and verbal communication; ability to deal with personnel at all levels; ability to work under pressure; ability to obtain a top secret clearance. Promotion potential DA-2.

No. 39-023, Interdisciplinary Supervisory Electronics Engineer/Mechanical Engineer/General Engineer, DP-855/830/801-3/4, Code 3924 — This position is head of the Electronic Systems Branch, Weapons Development Division of the Weapons Department. The incumbent will be involved in the design, development, test analysis and documentation of guidance, control and signal processing systems and components for air and surface launched tactical missile systems; in the design, development, test, evaluation and integration of fiber optics technology into weapons systems; and in engineering projects for direct support of the fleet. This position requires some travel. **Job Relevant Criteria:** Ability to effectively deal with personnel of diverse backgrounds; knowledge of signal processing and control systems technology and fiber optics technology highly desirable; knowledge of systems acquisition process; ability to interface with sponsors; willingness to support NWC EEO policies and goals. This position has promotion potential to DP-4 but is not guaranteed.

No. 33-018, Supervisory Interdisciplinary (General/Electronics Engineer/Physicist), DP-801/855/1310-3/4, Code 3333 — This position is head, Advanced Technology Projects Branch located in the Fuze Systems Division of the Fuze and Sensors Department. This branch performs advanced development, engineering development and production support of proximity sensor

systems and related test equipment for air-to-air and surface-to-air guided missiles. The incumbent is responsible for providing technical and managerial leadership to a team of scientists, engineers and technicians and reports directly to Division Head. In addition, the incumbent will be responsible for interfacing with all levels of NWC management, Program Offices, SYSCOM sponsors, other government agencies and services and development contractors. Previous experience in full-scale development desirable. **Knowledge:** of electronic design principles and radio frequency/microwave sensor systems. **Abilities:** to communicate orally; to communicate in writing. Willingness to support NWC EEO goals and policies. Promotion potential to DP-4, but not guaranteed. DP-4 will be filled by reassignment only.

No. 62-012, Electronics Technician/Engineering Technician, DT-856/802-1/2/3, Code 6256 — (Multiple Vacancies) — These positions are located in the Radar Branch of the Data Systems Division. The incumbent(s) will support range radar operations, operate/repair, modify, maintain and calibrate radar systems, sub-systems and related equipment; and develop, construct and maintain on-axis radar systems. **Knowledge:** Of Nike, Hercules, Western Electric radar family, RCA FPS-106 radar; of application, design and maintenance of RF threat simulations; of electro-mechanical systems, develop and production processes. Promotion potential DT-3. Previous applicants will be considered for the position and need not reapply.

No. 31-141, Interdisciplinary, Electronics Engineer, Computer Scientist, DP-855/1550-2/3, Code 3115 — This position is located in the Software Engineering Environment Branch of the Avionics Facility Division of the Aircraft Weapons Integration Department. The incumbent's responsibilities will include: the operation and maintenance of Micom and ethernet data communication systems; the design, specification and implementation of a Local Area Network to include Code 31 computer facilities, personal computers and terminals at Armitage Field; plan and implement a data interface to the base wide fiber optic network. **Knowledge:** of data communication interface requirements, local area networks and DEcnet/ethernet is required. To apply for this position, send a current SF-171 to Carol Burge, Code 3115.

Reassignment opportunities

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

No. 31-141, Interdisciplinary, Electronics Engineer, Computer Scientist, DP-855/1550-2/3, Code 3115 — This position is located in the Software Engineering Environment Branch of the Avionics Facility Division of the Aircraft Weapons Integration Department. The incumbent's responsibilities will include: the operation and maintenance of Micom and ethernet data communication systems; the design, specification and implementation of a Local Area Network to include Code 31 computer facilities, personal computers and terminals at Armitage Field; plan and implement a data interface to the base wide fiber optic network. **Knowledge:** of data communication interface requirements, local area networks and DEcnet/ethernet is required. To apply for this position, send a current SF-171 to Carol Burge, Code 3115.

No. 39-021, Interdisciplinary General/Electronics/Mechanical/Aerospace/Industrial Engineer/Physicist, DP-801/855/830/861/896/1310-3, Code 39B4 — This position is in the RAM Project Office as manager for Rolling Airframe Missile (RAM) Government Furnished Material (GFM) components. RAM is in the final phase of FSED testing and is going into the production phase. Duties of the position involve the management of the Contact Fuze, Proximity Fuze, Arming-Firing Device, Reduced Smoke Rocket Motor and applicable Test Sets. Responsibilities include

overseeing development efforts, maintaining product assurance, coordinating environmental qualifications, maintaining GFM inventory and monitoring of GFM performance for Test and Evaluation. The ability to participate effectively as a member of a technical team and to communicate both orally and in writing is necessary. Please submit current SF-171 to B. Campbell, Code 39B4, NWC ext. 3741.

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

No. 39-015, Interdisciplinary (General/Electronics/Electronics/Aerospace

Engineer/Physicist), DP-801/850/855/861/1310-2/3, Code 3942 — This position is located in the Air-to-Surface Guidance Branch of the Electro-Optics Division in the Weapons Department. The incumbent will act as the Advanced Antiship Targeting Development Program Manager. This will involve interfacing with sponsors in Washington, D.C., management at NWC and contractors. **Knowledge:** of electro-optical guidance and imaging sensors is required. Experience with IR guidance, automatic target recognition and algorithm development is desirable. Ability to work well with others, to communicate effectively both orally and in writing; and to set and achieve programmatic goals is required. To apply for this position, forward an updated SF-171 to Don Gay, Code 3942, NWC ext. 3341. If selected at DP-2 level, incumbent will have potential to DP-3.

No. 39-016, Interdisciplinary (Electronics Engineer/Computer Scientist/Physicist), DP-855/1550/1310-2/3, Code 3942 — This position is located in the Air-to-Surface Guidance Branch of the Electro-Optics Division in the Weapons Department. The incumbent will be the Software Engineer for the IR Maverick missile and provide technical support for the IR Maverick Program. The incumbent will be responsible for maintaining and utilizing the PDP 11/44 based Tracker Laboratory to support the development, acquisition and evaluation of the IR Maverick missile software. **Knowledge:** of assembly and PASCAL language programming and software/hardware experience is highly desirable. The incumbent will interface with program offices, the SYSCOM sponsor, other government agen-

cies and contractors. Previous experience with full scale engineering development and/or missile production contracts is desirable. To apply for this position, forward an updated SF-171 to Don Gay, Code 3942, NWC ext. 3341. If selected at DP-2 level, incumbent will have potential to DP-3.

No. 625-007, Physicist, DP-1310-1/2/3, Code 6255 — This position is located in the Laser Systems Branch, Data Systems Division, Range Department. The section is responsible for the development of the ALRITE laser tracking system as well as future advanced systems. Responsibilities include designing modifications for the ALRITE system. Incumbent also serves as a member of a team tasked with the design of an advanced laser tracking system. Serves as general consultant in the areas of lasers, optics and electro-optics for range instrumentation applications. Please send SF-171's to R. Harriman, Code 6255, NWC ext. 6337.

No. 625-010, Interdisciplinary Electronics Engineer/Computer Scientist, DP-855/1550-2/3, Code 62551 (2 Vacancies) — This position is the Projects Section, Advanced Systems Branch of the Data Systems Division in the Range Department. The branch is responsible for the development of advanced range instrumentation systems. The incumbent will participate in the analysis, design and development of electronic components associated with range weapon test support instrumentation, including optical, radar and laser tracking systems. Promotion potential to DP-3. Send SF-171's to R.A. Harriman, Code 6255, NWC ext. 6337.

Secretarial opportunities

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

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

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

No. 26-019, Secretary (Typing), GS-318-3/4, Code 2693 — Provides secretarial support to the Planning Branch. Promotion potential to GS-4.

No. 31-140, Secretary (Typing), GS-318-4, Code 3196 — Provides secretarial and administrative support to the Systems Analysis Branch. Promotion potential to GS-5.

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. 39-004, Secretary (Typing), GS-318-

4/5, Code 3917 — Provides secretarial support to the Weapons Effectiveness Branch.

No. 62-002, Secretary (Typing), GS-318-4, Code 62C2 — This position is located in the Ground and Track Projects, Projects Office, Range Department. The incumbent provides secretarial support to the Head, Ground and Track Projects and duties are part of a broader and more inclusive responsibility by assisting the Projects Office, Code 62C, Secretary. Experience on Xerox 860 is preferable. Promotion potential is GS-4.

Non-appropriated Funds Arrivals

2227	Schmidt, Shawn
2226	O'Brien, Mara
2226	Frisbee, Eric
2222	Wise, Laura

Non-appropriated Funds Departures

2203	Dunnam, Sandra
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Recent Separations

Code	Name	Title
25241	Cooley, David W.	Contract Spec. Supvy.
26416	Aguon, Randy P.	Laborer
26436	Gattoni, John S.	Electrician (High Volt.)
26436	Tobola, Robert R.	Elect. (High Voltage)
3102	Falkenberg, Gail L.	Admin. Officer
3104	Forrester, Robert L.	Electronics Engr.
36516	East, Thomas A.	Engrg Data Mgt. Spec.
36571	Wiruth, Debra L.	Engrg. Tech.
62141	Porter, Carl A., Jr.	Ordnance Equip. Mech.
64101	Knacke, Theodore W.	Aerospace Engr.

Placement exams start

Placement examinations for new students planning to enroll at Cerro Coso Community College during the summer 1986 semester will be administered by appointment in the College Student Services Centers.

Tests will be given on May 21, 22, 27 and 28, by appointment only.

Students enrolling in degree programs or transferring to a four-year institution need to take this test battery before the summer semester begins on June 23.

The test provides a measurement of achievement and ability in English, general

and college aptitude and mathematics.

Results of the examinations are used by the College counselors to assist students in enrolling in appropriate classes and programs and are not used to deny any student permission to enroll for college classes.

There is no charge for this examination and the complete battery of tests takes approximately three hours.

Interested persons can make reservations and receive information about the tests and dates available by calling the Cerro Coso Student Services Center at 375-5001, ext. 219.

Enrollment counseling open

Enrollment counseling for students planning to attend Cerro Coso Community College during the summer 1986 semester will be offered June 2 through 13, by appointment only, from 9 a.m. to 4 p.m., Monday through Friday.

Walk-in counseling will be conducted June 16, from 9 a.m. to 12 noon and 2 to 6:30 p.m.; and June 17, 18, 19 from 9 a.m. to 1 p.m. and 2:30 to 6:30 p.m. No appointment

is necessary to see a counselor during walk-in counseling.

All students are encouraged to see a counselor if they are taking courses toward a specific degree program or have questions regarding a choice of major, study program, graduation requirements, general education certification or transfer credits.

For more information on enrollment counseling call the College at 375-5001.

Speed reading class offered

Cerro Coso Community College is offering two 1-unit, 18-hour lecture courses in "Speed Reading."

These courses are designed for students with average, or better, reading skills who need to improve their speed and comprehension; and for those whose work or professional training requires extensive supplementary reading. Emphasis will be placed on flexibility in attacking a variety of reading situations.

The first course will meet on Monday through Thursday evenings from 5 to 6:30 p.m. beginning June 23 and ending July 10. The second course will begin July 14 and end July 31, meeting on Monday through Thursday afternoons from 12 to 1:30 p.m. Diana Veneski will instruct both classes.

For further information on "Speed Reading," contact the College office at 375-5001.

For information on registering for summer classes, see article entitled "Cerro Coso sets registration" in today's issue of the Rocketeer.

B'fld counselors here June 5

Academic counselors of Cal-State Bakersfield will be on-Center June 5 to advise current and prospective students in the external degree programs offered by that school.

External degree programs offered at NWC by Bakersfield include a bachelor's degree in business administration and a

master's degree in public administration. Bakersfield also provides math courses in other external degree programs at NWC.

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

CSUN advisor due May 29

Dr. Jagdish Prabhakar of Cal-State University Northridge will be on-Center May 29 to advise current and prospective students in the external degree programs offered by the school.

Cal-State University Northridge has external degree programs in electrical

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

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

Chico advisor slated May 30

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

Cal-State University Chico has external

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

Registration schedule set

Cerro Coso Community College has announced its registration schedule for the upcoming summer 1986 semester.

The summer semester will begin June 23 and conclude August 15.

Schedules for the summer semester are now available at the Training Center lobby.

Registration for the summer 1986 semester for continuing students will be conducted on June 16, from 9 a.m. to 12 noon and 2 to 6:30 p.m.

New and continuing students may register June 17, 18 and 19 from 9 a.m. to 1 p.m. and 2:30 to 6:30 p.m.

No appointments are necessary to register. Registration will be based on a first-come, first served basis.

Students requiring placement examinations or a counseling appointment regarding their academic schedule should contact Student Services at 375-5001, ext. 219, prior to registering.

For enrollment in English and Office Careers courses, students must obtain placement cards from Student Services prior to registering for classes.

The Center will pay for full tuition if the courses are provided under the NWC/Cerro Coso Contract. If courses are job-related or will strengthen an individual's contributions to the Center's mission, tuition will be paid directly to the college by Code 094. A DD Form 1556 (Request, Authorization, Agreement and Certification of Training

and Reimbursement) must be submitted via department channels to Code 094.

If a course is not directly job-related, along with DD Form 1556 a NAVWPNCEN 12420/86 (Academic Enrollment Justification) and a NAVWPNCEN 12410/68 (Individual Development Plan) describing how the course fits into the overall career plan and how attendance at the course will strengthen the individual's contribution to the Center's mission, must be submitted.

If an individual is not yet a California resident, a statement from the supervisor indicating the negative impact to NWC of postponing the training until residency is established, must be submitted.

Code 094 will return the approved DD Form 1556 to the originating party. This must be brought to Cerro Coso during registration in order for NWC to pay tuition.

A DD 1556 is not required for co-op students. Co-op students must inform the registrar that they are co-op students while registering.

Requests for tuition support (DD 1556) must be received by CLOSE OF BUSINESS June 6 so that they may be processed and returned in time for registration. Those received after that date will be returned and employees will have to pay the tuition themselves. EMPLOYEES WHO PAY TUITION WILL NOT BE REIMBURSED.

For further information, contact Cecil Webb, NWC ext. 2648.



Personnel Development Opportunity

MANAGING FOR THE NINETIES: GLOBAL ACCOUNTABILITIES

11-13 June, Wednesday-Friday, 0800-1600, Training Center. By: McFletcher Associates.

Intended Audience: Managers and supervisors at all levels.

Scope: Surveys the skills and insights needed to make effective decisions in our fast-moving and increasingly unpredictable culture. Emphasis is placed on understanding the nature of our changing work force, how organizations became the way they are, and how managers at all levels can help their organizations adapt to change. This class involves student participation and preclass reading.

Deadline: 23 May.

INTRO TO VAX/VMS AND DCL COMMANDS

9-13 June, Monday-Friday, 0730-1130, Training Center. By: Walter Gallant, Mini & Micro Education Service.

Intended Audience: People who will be using Digital's VAX/VMS system but will not be writing programs.

Scope: Topics include introduction to computers, what is a VAX, operating systems-VMS, command language, DCL, terminal types, logging in to the VMS system, EDT—an interactive/full-screen editor, directories and subdirectories, changing your default directory, file specification and file types, file protection, understanding error messages, command procedures, using symbols at DCL level, running canned software packages, submit/control print and batch jobs, using standard VMS utilities mail and phone, and documentation overview.

Note: This course is also recommended for MicrovaxII user training.

Deadline: 23 May.

TRAINING FOR THE MICROVAXII

We recommend that if you want training for the MicrovaxII, you take the standard VAX training. Nonprogrammers should take Intro to VAX/VMS and DCL Commands (9-13 June). Programmers should take VAX/VMS Utilities and Commands (21-25 July).

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