

Community Events

Steel Magnolias opens tonight and Saturday at the Old Kern County Building, Ridgecrest Blvd, at 7:30 p.m. Tickets are available at the door and the box office will open at 6 p.m., for each performance. General admission tickets are \$6, while military, students, and senior citizens cost \$5. The show also runs the following weekend, Dec. 7 & 8.

It's a **Just for Kids Christmas Party** at the NWC Youth Center on December 1st. Festivities include caroling, cookie decorating, Santa and more! Special activities for children 0-5 years runs from 5:30-6:30 p.m., while activities for all kids begins at 6:30 p.m. until 9:00 p.m. Tickets are available at the Youth and Child Care Center, Military \$3.00, DoD \$4.00 and all others \$5.00.

From now until Dec. 7, the Cerro Coso Art Gallery will feature the work of artist Jeff Murphy. The exhibit, called **Derivatives of Decay**, involves photographs of animal and human bones colored in a striking manner. A reception and discussion with the artist will be held Monday at 7 p.m. in the art lab. The show and reception are free of charge. For more information, call 375-5001, ext. 238.

Kern County Health Department Ridgecrest **Flu Clinic** scheduled for December 5, 1990, will be held at the Senior Citizen's Center in the Ridgecrest Community Building, 125 South Warner, from 2-4 p.m. People 55 years and older are urged to receive flu shots. The cost for the flu shot is \$2 each. For more information please contact the Ridgecrest Health Department Office at (619) 375-5157.

Each week, Community Connection for Child Care provides special parenting tips through their Parenting Tape Program. Interested parents can listen to these helpful, three to four minute tapes from 5 p.m. to 10 a.m. by calling 375-0446. The final tape being shown is:

Dec. 1-7 -- **Child Care Options** explains three types of child care -- centers, family child care homes and care in your own home.

Santa's Workshop will take place at the Desert Empire Fairgrounds on Saturday and Sunday, Dec. 1-2. Hours on Saturday are from 10 a.m. to 5 p.m. and on Sunday, 10 a.m. to 4 p.m. Admission is \$1 per person over 12 years of age. Over 200 artists and craftsmen will be displaying works for the holiday season.

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PostScript PS35	2849	2095
AppleTalk interface	145	99

Computing Technology

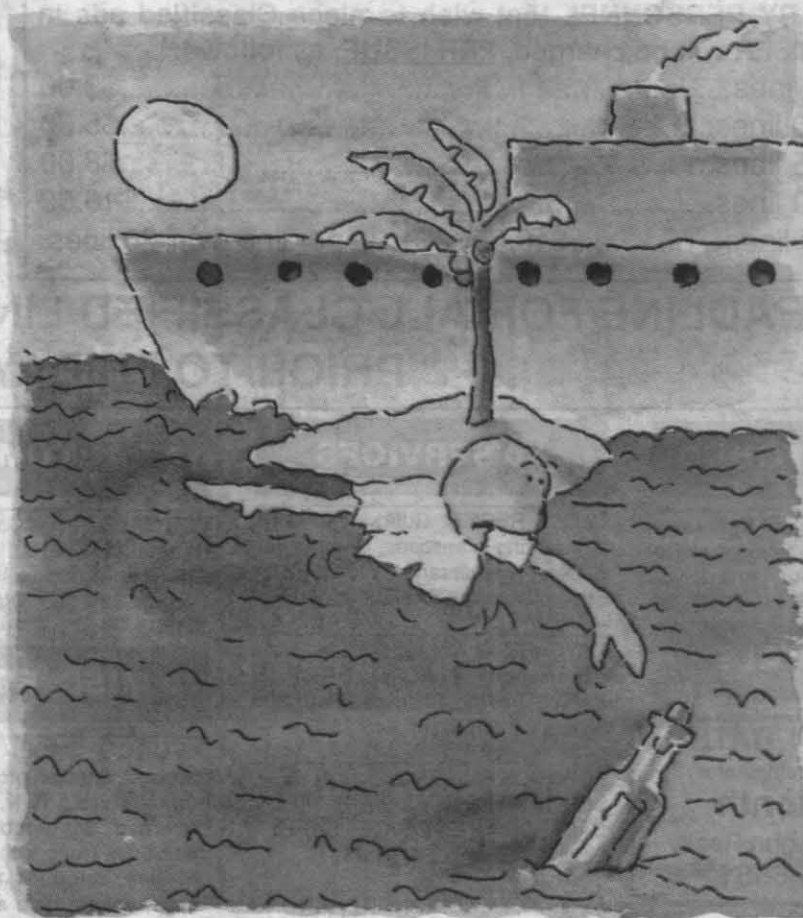
Computer Store

251 Balsam St. 375-5744 quality, service, price

"Franz Liszt" concert by concert pianist to be held

Distinguished American pianist, Robert Guralnik, performs a musical event based on the life of Franz Liszt at the Naval Weapons Center Theater on December 4 at 7:30 p.m. General admission is \$9, and \$6 offered to full-time active duty military, dependents, under 21 or over 65.

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Nov. 30, 1990

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MWR's special Santa's Breakfast set next Saturday

Only one week remains to buy advance tickets for the Morale, Welfare and Recreation Division-sponsored Breakfast With Santa on Saturday, Dec. 8, at 9 a.m., in the Naval Weapons Center's Seafarer Club.

This special buffet breakfast features Belgian waffles and a wide assortment of other breakfast foods. Advance tickets are \$4.75 for adults, \$3 for children between two and twelve years of age. Kids two and under are admitted free. At the door tickets will be \$6 and \$4 respectively.

For \$1.25 more, youngsters can have their picture taken with Santa Claus.

Tickets are on sale at the Youth and Children's centers onboard NWC.

Christmas cookies bound for troops in Persian Gulf

Christmas is almost here and many of our service people in the Persian Gulf are away from their families at this joyous time of year. What better way to show them we are thinking of them than to send them Christmas cookies. Volunteers are needed to bake and provide cookies which will be shipped by Dec. 10th. Any help or donations will be greatly appreciated to make Christmas for our service people in the gulf more pleasant. For more information call Sam & Emilie Campisi at 371-4968 or Pat & Renee McCollom at 446-5690.

NWC Rocketeer

Naval Weapons Center, China Lake, California 93555-6001

Vol. XLV, No. 48, November 30, 1990

Public Works answers Sidearm call

China Lake's can-do spirit brings timely delivery of missile fins supporting deployed military units

There is no question the NOTS-NWC can-do spirit remains alive and well at China Lake. Recently the Sidearm Program Office and the Public Works Department's Paint Shop responded to a request to support Opera-

tion Desert Shield. This involved working through the Veteran's Day holiday weekend and resulted in timely delivery of fins for Sidearm missiles.

When a request for the fins came to the Sidearm office, Ron

Gilchrist, Public Works facilitator, was contacted for assistance in meeting delivery timetables.

The task was turned over to Ezekiel Caldwell Jr., who worked the weekend hand-sanding and painting the fins. Cald-

well, a painter in Code 26, has been at NWC since 1986. He said everything they did supported the NWC mission, but he was very pleased he could do this work in direct support of Operation Desert Shield.

Corpsman supports Desert Shield effort

HM3 Chris Kateley returns to NWC from Arabia

Seldom has the China Lake area looked as good to anyone as it did to Hospital Corpsman Third Class Chris Kateley earlier this month. The nine-year Navy veteran just returned from more than three months duty in Saudi Arabia with the 1st Marine Division.

Life for Petty Officer Kateley in the desert of Saudi Arabia was rugged, just as the national news media has described it. But despite the hardships and not knowing when they would come home, he said morale was high and the attitude good in the 7th Marines where he was assigned.

For Kateley, the isolation and disruption of his first shore duty in five years were the hardest parts about his deployment. That's why he, like the Marines he worked with, placed a lot of value of mail call.

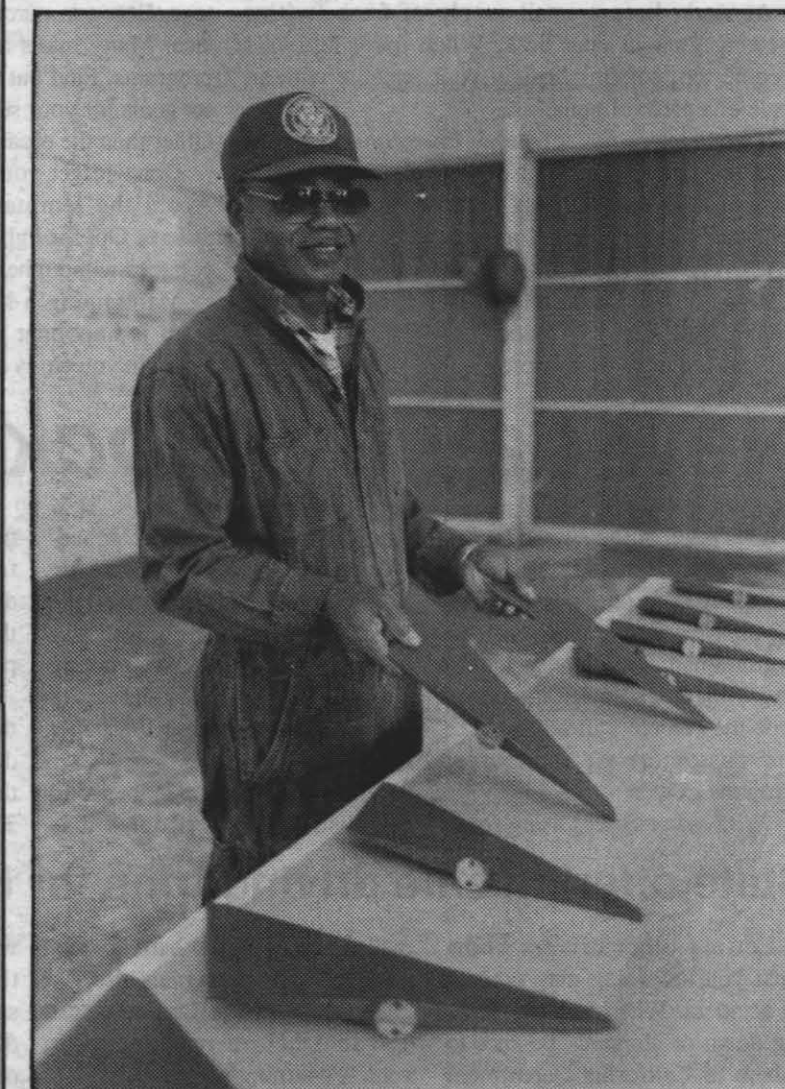
"We got mail every day and that was really important. Everyone shared letters and shared books they got in the mail. There was a lot of bonding between people and a real buddy system," he said.

The adventure started in August when HM3 Kateley was given just hours to pack up and get on the way to Camp Pendleton where he was augmenting corpsmen with the I Marine Expeditionary Force. This callup came as a shock to the petty officer who had only been at the NWC Branch Medical Clinic for a year, after four years of sea duty with the Fleet Marine Force. But shock or not, he was on his way and on Sept. 13 arrived in Saudi Arabia. It didn't take him long to conclude the China Lake desert was "like heaven" compared to the Arabian Peninsula's desert.

For the three months he was in-country, the Marine unit he was with alternated between forward deployment, maybe 100 kilometers from the Kuwait border, to an area in the rear, more than a two hour drive from their front, known as Camp 15.

"There was a rotation system in-country," he noted. "You would spend about two weeks in the front, then rotate back to the camp for three or four days, then head for a different area of the front replacing another unit headed for camp."

(Continued on Page 7)



CAN-DO SPIRIT--After working on the holiday weekend, Ezekiel Caldwell Jr. shows some of the Sidearm missile fins he sanded and painted in response to a request for the fins in support of Operation Desert Shield. Photo by PH3 Cary Brady

Monastero succeeds Doc Austin

Geothermal Program Office leadership change concludes an era at the Naval Weapons Center

"One thing people should realize is that, there is, and always will be, only one Carl Austin. If I can achieve half of what that man has done in his career, I will feel eminently successful . . . and no, I don't have any red suspenders!" chuckled Dr. Frank Monastero, new head of the Naval Weapons Center's Geothermal Program Office (Code 2606).

The program manager is charged with directing and carrying out performance con-

trol and coordination of all DoD geothermal exploration, development and production programs. Additional duties include consultation and coordination with other government laboratories and development of geothermal potential on military lands.

Monastero earned his bachelor's degree in biology, from Temple University in 1966 and went on to obtain a master's degree in geology from the same university in 1968. He then

attended Florida State University where he got his doctorate in geology and geophysics. "While working on my doctoral thesis I was part of Operation Deep Freeze, which focused on researching the resources on and around the Antarctic continent. My particular work centered on the Tasman Basin, and was in search of submarine volcanism," said Monastero.

(Continued on Page 5)

China Lake Calendar

Sat. Dec. 1

...Just For Kids Chirstmas Party, 5:30 p.m. start, NWC Youth Center. Call NWC ext. 2909 for details

Sat. Dec. 8

...Breakfast Buffet With Santa Claus, NWC Seafarer Club, 9 to 11 a.m.

Wed. Dec. 12

...Surplus Govtment Property Auction, 9 a.m., Warehouse 41(Building 1073)

...CLWISE luncheon meeting, 11:30 a.m., Carriage Inn

...SIGADA Popcorn Forum, 3:30 p.m., NWC Training Center

...TARIF ribbon cutting ceremony, TARIF Building

Coming Events

Items of interest to the China Lake population may be placed in the CHINA LAKE CALENDAR by calling the NWC Rocketeer at NWC ext. 3354 before 11:30 a.m. on Tuesday before Fridays publication.

Wellness Corner

Traditions of the holidays go far beyond the religious aspects for most Americans. And many of those traditions--parties, all-day shopping trips, extra work breaks to enjoy holiday treats--offer temptations to give up healthful habits.

But the holidays don't have to be an exceptions to your healthful lifestyle. The American Heart Association urges you to keep your heart in mind through the hectic holiday season.

Both healthful eating and exercising are often forgotten during this time of the year, but there are plenty of things that you can do to avoid the temptation to eat foods high in cholesterol, fat, sodium and calories and to skip exercising.

At work, keep a small supply of fresh fruit or chewing gum in your desk. When party leftovers become too tempting, satisfy your appetite with an apple or a piece of gum.

If your office has a holiday luncheon, prepare a large tossed salad instead of a gooey desert. That way you'll be able to watch your own diet. You may find your co-workers will appreciate the sale themselves.

If you do bring a desert, try fresh fruit. If you use canned fruit, you can reduce calories by selecting fruit packed in its own juices.

At parties, consider fresh vegetable dipped in low-fat yogurt, fruit and low-fat cheeses as appetizers and snacks. If you find yourself trapped in a food line, opt for raw vegetables and fruits instead of baked goods and highly salted nuts and chips. If the temptation to nibble is too great, try getting involved in a stimulating conversation and as far away from the food as possible.

If you drink alcohol, do so in moderation. Drinking water with a twist of lime or lemon or diet sodas can curb your appetite without adding pounds. It gives you something to do with your hands instead of picking up food.

For exercise, shopping can actually be an advantage. Between purchases try mall-walking for exercise. Many malls already have organized walking programs. Find out how many laps equal a mile and set goals for your self. And, of course, take the stairs rather than the escalator when possible.

Don't forget your healthful diet while shopping. Avoid the temptations of high-fat entrees and deserts. Opt for light choices such as salads or baked potatoes without heavy toppings or dressings.

Maintaining a healthful diet and exercise program is important year round, and your willpower can help you enjoy a healthful holiday season.



New day for Rocketeer

This issue of the *NWC Rocketeer* marks the last one published and distributed on Fridays. Starting next week, the paper will be in guardmail for Thursday delivery. *Rocketeer* staff members hope the change will better serve our customers at the Naval Weapons Center.

With many offices using some

form of alternative work schedules, many China Lakers were not at work on Fridays to get the paper. The change to a Thursday publication is aimed at making sure all employees have an opportunity to receive the paper in a timely fashion.

With the change in printing and distribution schedules it is

necessary to move the deadline for articles and photos to the Friday preceding publication. Thus the deadline for next Thursday's paper is today, Nov. 30.

Readers with questions about the new distribution schedule or deadlines are encouraged to call the *Rocketeer* staff at NWC ext. 3354. Steve Boster, Editor

State offering safe driving trips for holiday season

Letting other drivers know what you are doing may prevent an accident. When turning, slowing down or stopping, be sure to adhere to California Department of Motor Vehicle rules. Following are a few of the safety rules many people tend to forget.

Always signal to other drivers when you plan to turn, slow down or stop. Conditions may require that you use both hand and vehicle signal lights when doing so. For instance, if bright sunlight

makes signal lights hard to see, use hand-and-arm signals also.

Signal turns at least the last 100 feet before reaching your vehicle's turning point.

At highway speeds, signal at least five seconds before changing lanes or making a turn.

On right turns, look for bicycles and motorcycles between your vehicle and the curb. Be sure to stay in the right-hand lanes of both streets.

You must give the right-of-

way to all vehicles coming from the opposite direction on the same roadway close enough to be dangerous. Make your left turn only when you can see clearly it is safe.

If you must make a right turn through a bike lane, do so no more than 200 feet from the intersection where you plan to turn.

If stopped at a stop light and if there is no sign prohibiting a right turn, you may turn when the light is red, providing it is safe.

Letter to the editor

To the Editor,

Thank you for publicizing my Eagle project to collect books for the service people in Saudi Arabia. I collected about 2,500 books. I also want to thank Mayflower Moving Company and the Bookshelf which donated boxes, Steve McLean of Sandstone Printing who produced the original flyer, and Graphic Impressions which donated labor on printing the flyers. I'd like to thank the Kiwanis Cub members who are paying for this project and who donated time to help with packing the books. Cub Scouts from Pack 341 and Boy Scouts from Troop 35 and Troop 824 helped collect and pack books. The Methodist Church gave me space to store and pack books. I appreciate everyone's help in making this project work.

Sincerely
Russell Patton

NWC HOTLINE
Integrity, efficiency program
Call: NWC ext. 3636 (24 hours)
or call the Inspector General at:
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288-6743 (Autovon)

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PERSONALS.....1	SERVICES.....30
LOST & FOUND.....5	AUTOMOTIVE.....35
HAPPY ADS.....10	MISC. FOR SALE.....40
HELP WANTED.....15	GARAGE SALES.....45
RENTALS.....20	PETS & SUPPLIES.....50
BUSINESS.....25	REAL ESTATE.....55

DEADLINE FOR ALL CLASSIFIED LINE ADS IS 4:30 p.m. WEDNESDAY - PRIOR TO FRIDAY PUBLICATION

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'87 Mustang GT convertible, white, leather interior, remote alarm system, 42,000 miles. \$14,500. Call 446-7895.

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35 AUTOMOTIVE

FOR SALE - Truck Canopy. Fits Ford Ranger XLT - \$150. Car-top rack - \$15. Pair of bucket seats out of '85 Dodge Colt - \$35, w/seat belts. 446-1012.

40 MISC. FOR SALE

DIVORCE SALE - Sofa and Loveseat, 3 pc. entertainment center, bookshelves, full size Somma Waterbed, Bentwood Rocker, automatic baby swing, crib, portacrib, carpet-Blue, color TV, 10-speed bike, lamps, coffee table and sofa table, dinette set, plant stands, coat rack, stereo, mini blinds, washer and dryer, new solid oak bedroom set. 446-5393.

FOR SALE - Childs' toy kitchen - \$15.00. Double Stroller, excellent condition - \$60.00. Johnny-Jump-Up baby exerciser, new - \$15.00. Call 446-4432.

NEW SOLID OAK Bedroom Set - King Pier Group with lighted headboard, chest, dresser/mirror, ent. center. Paid \$4,000, sell for \$3,000. 446-5393.

SOLOMON SX/81 SKI BOOTS, hardly used; asking \$150 - leave message. 446-2604.

TANDY 1000PC, PRS-80 MONITOR, Citizen 120D printer, Deskmate software package. \$575. 446-3811.

45 GARAGE SALES

MATURANGO MUSEUM Gift Shop Sale - Books, jewelry, T-shirts, pottery, other gifts. Nov. 30 thru Dec. 2, 10a.m. to 5p.m.

50 PETS/SUPPLIES

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55 REAL ESTATE

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NWC sailors look sharp during fall uniform inspection

On such a cool, clear, breezy day where the leaves on the trees are turning colors and the men and women of the United States Navy stand so proud in their dark crisp uniforms, one tends not to think of the enormous effort required to make such a picturesque scene. The Naval Weapons Center's military members held their traditional personnel "winter blues" inspection on the front lawn of the Headquarters Building last Wednesday. With the change of seasons the military members shift from summer whites to winter blues.

"It's so impressive to see them out there in those sharp uniforms. Sometimes we forget it's a military base, but when you see them out there in formation you quickly remember," commented Laura White, who proudly watched her husband standing tall. The NWC military personnel had the same effect on all Center employees passing by to take care of routine business. People would suddenly stop, look and smile to themselves admiring the men and women who serve their country.

Few of us standing in the background stopped to think about the hours spent frantically scrambling around to ensure every piece of their uniform was absolutely perfect. Shining shoes, buckles, and double checking for Irish pennants (little strings hanging from the uniforms). We just stood and admired the end result as did NWC Commander, Capt. Douglas W. Cook, who performed the inspection of his troops. It was a sight indeed! And the hard work they put into the grooming paid off because they looked perfect in every way.



AN IMPRESSIVE SIGHT INDEED - Capt. Douglas W. Cook, NWC Commander, inspects the uniforms of military men and women during the fall inspection on the front lawn of the Headquarters building.

Photo by PH3 Cary Brady

Public Works officer recognized

Captain (Sel) James R. Williams, the Naval Weapons Center's public works officer, received his third Meritorious Service Medal of his Navy career recently. Capt. Douglas W. Cook, NWC Commander, presented Capt. (Sel) Williams with the gold star representing the third medal, for work done at his previous duty station.

As executive officer of the Naval Construction Battalion Center, Gulfport, Miss., from September 1988 through May 1990, Capt. (Sel.) Williams was credited with major improvements in mission effectiveness and support provided to the Naval Construction Force.

In the citation to accompany the gold star, NWC's PW Officer was praised for his "personal commitment, outstanding leadership and effective training management." Signed by Adm. Frank B. Kelso II, Chief of Naval Operations, for the President of the United States, the citation added, "Because of his outstanding leadership, the command was recognized for many awards during his tenure, 1988 winner and 1989 finalist for the Admiral Elmo R. Zumwalt Award; 1988 and 1989 finalist in the Ney competition; 1989 finalist for the Commander in Chief's Excellent Installation Award; 1989 Naval Military Personnel Command Award for Best

Overall Morale, Welfare and Recreation program, medium size installation and the 1989 Golden Anchor Award.

Capt. Cook praised the efforts of Capt. (Sel.) Williams, noting he had an outstanding record.

The soon-to-be captain also received a letter of appreciation from the commanding officer, Naval Reserve Construction Battalion Center at Gulfport for his exceptional support the Reserve Construction Center received during the summer, 1990 annual training period.

Looking on as he received the honors was Capt. (Sel.) Williams' wife, Cheryl.



THREE TIME WINNER -- Capt. Douglas W. Cook, NWC Commander, presents Capt. (Sel) Williams (center) with the gold star representing the third medal for work done at his previous duty station. Cheryl Williams looks on proudly as her husband receives the award. Photo by PH3 Cary Brady

Graduate reunion announced

Graduates of the U.S. Navy Test Pilot School will take part in the 43rd annual reunion and symposium next April 27 at the Naval Air Test Center, Patuxent River, Md. The event will be held in the Cedar Point Officers' Club.

To receive invitations, TPS alumni, who haven't been in recent contact with the school, should send their current mailing address to: Reunion Coordinator, U.S. Naval Test Pilot School, Naval Air Test Center, Patuxent River, MD 20670-5409. Or, call the alumni clerk at (301) 863-4107, AUTOVON 356-4107.

Dedicated NWC Commissary employees work appreciated

In a recent awards ceremony, seven military and civilian employees in the Naval Weapons Center Commissary were recognized for their dedication, superb performance and years of faithful service. The certificates and service pins were handed out by Ensign Michael E. Corsey, officer-in-charge of the Navy Resale Activity Detachment; Senior Chief Ship's Serviceman Romeo Binaoro, Commissary Store manager, and Chief Ship's Serviceman Martin Cherry, Commissary Store's assistant manager.

Enthusiasm, professionalism and devotion to duty, earned Russell G. Preul the honor of being selected as China Lake Commissary Store Employee of the Quarter for July-September 1990. Signed by Ensign Corsey, the Letter of Appreciation received by the meat manager read, in part, "your dedication, hours of hard work and personal sacrifice provided the best possible service and customer satisfaction for the morale and welfare of the community."

SHCS Binaoro received his 15

year Navy Resale Service Award Pin and certificate for his faithful service with the Navy Resale System. As the new manager of the local store, the senior chief has already increased customers and sales due to his imaginative ideas, noted Ensign Corsey.

Sandra Bozony, head cashier, received her 10 year Naval Resale Service Award Pin and certificate, while Dianne Johnson and Eula Mae Helm, both cashiers, received their 5 year pins and certificates.

In addition, Dean O. Rice, sales audit clerk, received a Letter of Recommendation for a quality step increase. "He carries out all responsibilities with enthusiasm, sound, mature judgement and attention to detail," reads the citation. "He gets the job done."

SHCS Binaoro concluded the ceremony by saying, "Our mission is to enhance the quality of Navy life by providing customers with quality foods and household products at an overall savings in a clean, well stocked, friendly environment."



"Chanukah"

What is the Jewish holiday of Chanukah about? Ask a Jewish friend this question and you will probably get one of two answers.

The first answer will describe the victory of Judah and the Maccabees over armies ruling over the Jews. They may even know this struggle took place in the Second Century Before the Common Era.

The second probable answer involves explaining about a miraculous container of oil. This oil was found in the Temple when the Jews regained control of their religious worship at the end of the struggle. The oil should have only burned for one day, but in the Jerusalem Temple the oil burned for eight days. By the eighth day, the community had found new oil to continue the ceremonial lights burning.

So what is the meaning of this holiday which last from Dec. 12 to Dec. 19 this year?

Chanukah is about both these things. Both parts of the story revolve around the same theme. This theme can be found in the name of the holiday. *Chanukah* is Hebrew for "dedication."

The Maccabees stood up for their rights because they were dedicated to their faith. The oil was involved in the re-dedication of the Jewish Temple. The idols of the ruling ancient Syrians had been brought to that sacred spot of Judaism. The Jews were re-establishing the religious practices of their day.

Today, in synagogues around the world, we find these lights burning all the time. Jews keep these lights lit to signify God's eternality, and to affirm our faith.

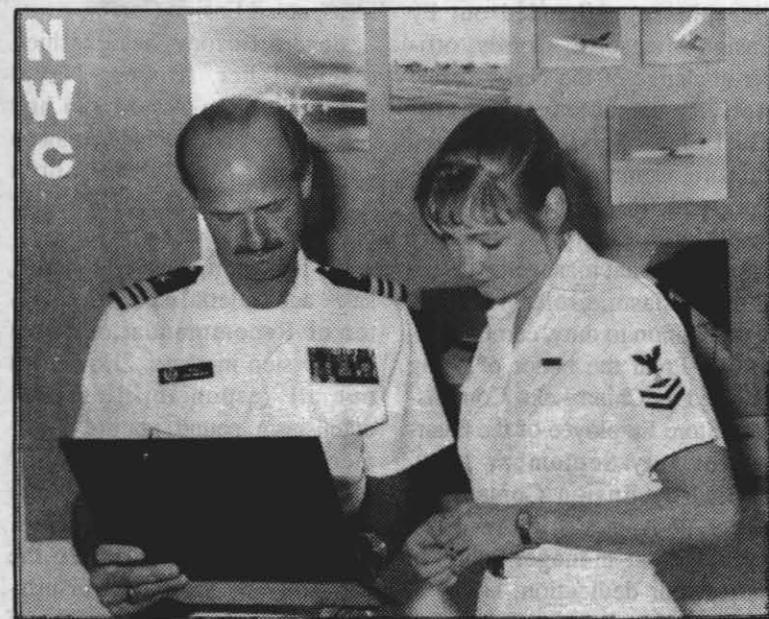
On Chanukah, we light candles to mark our dedication and joy. We light an increasing number of candles, from one to eight, to stress this joy. The nickname "Festival of Lights" is related to this practice.

Chanukah is about memory, as are many Jewish holidays. The memory on which we focus during Chanukah is a happy one of religious freedom. We do not focus on the events before the struggle, rather on the outcome. Judaism and the Jewish People survived and continue to thrive.

In America, Chanukah has been focused on more than in any other country. The reasons for this focus have to do with American culture and the season. It makes sense that the Jewish holiday celebrating our religious freedom has taken on a new importance in the country of multiple religions with a goal of mutual respect for those religions.

Chanukah is a time for taking joy in that reality. This year we will light the candles once again in joy, memory and in celebration of Judaism and religious freedom for all.

by Andrew Busch
Student Rabbi



SIX MORE — AC2 Anne Vanek, Code 6112, looks over her reenlistment papers with LCdr. Walter Gromada, Code 612B. The Air Traffic Controller added another six years to her Naval career.

Photo by PH3 Cary Brady

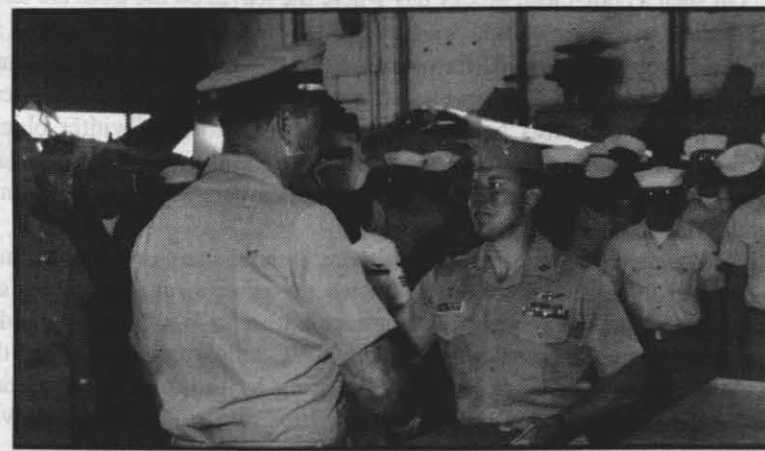
Pilot's skill saves life and aircraft

Being a Navy pilot is often glorified in movies like "Top Gun" as an elite profession where tough macho images appear untouchable. But where movies tend to sugar coat life in the danger zone, real life pilots know that every time they fly a mission it is a potential life and death situation. Aviators at VX-5 specialize in attack aircraft. They work daily on projects which develop attack aircraft tactics and are responsible for testing the Navy's newest attack weapons' systems.

A pilot at Air Test and Evaluation Squadron Five (VX-5) recently experienced the aviation danger zone while flying an F/A-18 Hornet aircraft during a night attack mission. Lt. "Chip" Miller had just lifted off runway 21 at the NWC airfield after midnight when he experienced a sudden loss of power in his aircraft. Fire lights illuminated and visible flames trailed behind his aircraft. The aircraft began to settle, but he was able to control the rate of descent by selecting full afterburner on the remaining engine while simultaneously securing the failed engine. The pilot maneuvered the aircraft away from populated areas and set up for an arrested landing. Compounding matters, the left leading edge flaps malfunctioned, causing degraded flying characteristics. However, his immediate actions and unsurpassed flying skills allowed him to bring the aircraft to a safe single-engine arrested landing.

Lt. Miller was recognized for his heroic endeavors by the Commander, Light Attack Wing, U.S. Pacific Fleet when he received the COMLAWINGPAC "STANDOUT WARRIOR" award. "Your flawless execution of NATOPS procedures during your recent engine failure on takeoff, at night, was superb. . . you saved two valuable assets -- your Hornet and yourself," stated the citation signed by VADM. S.R. Briggs. During a guest visit to the squadron, Deputy Chief of Staff, Commander in Chief, U.S. Pacific, RADM. Lyle F. Bull, presented the young pilot with the prestigious award.

Strapping oneself into a \$40 million piece of booming steel for a daily spin requires constant awareness to the consequences of each maneuver. The profession is dangerous, but aviators like Lt. Miller at VX-5 wouldn't trade it for the world!



GATHER AROUND—RADM. Lyle F. Bull puts the Vampires at ease during a VX-5 quarters assembly and has them gather around Lt. "Chip" Miller while he congratulates the fighter pilot for his heroic deeds. Photo by PH3 Rob Foster



Divine Services

Protestant	
Sunday Worship Service, East Wing	8:00 a.m.
Sunday Worship Service, Main Chapel	10:30 a.m.
Sunday School, 1008-10 Blandy & 1903-05 Mitscher	9:00 a.m.
Bible Study (East Wing), Wednesday (September thru June)	11:30 a.m.
Men's Prayer Breakfast, East Wing, Thursday	6:30 a.m.
Officers' Christian Fellowship/Christian Military Fellowships, East Wing, Thursday	7:00 p.m.
Islamic	
Jumaa Prayer (Friday at 1006 Blandy)	12 (noon)
Roman Catholic	
Sunday Mass, Main Chapel	9:00 a.m.
Daily Mass, Small Chapel	11:35 a.m.
Confessions, Weekdays	By appointment
Religious Education Classes (Sunday) (September thru May)	10:30 a.m.
1902 Dibb, 1002 Blandy, 1008-10 Blandy & 1903-05 Mitscher	
Jewish	
(NWC ext. 2851)	
Weekly Services (Friday - East Wing)	7:30 p.m.
Adult Hebrew Lessons (Saturday at 1004 Blandy)	3:00-5:00 p.m.
Religious Education (Sunday at 1004 Blandy)	9:00 a.m.-12 noon

Chaplain S. A. Casimano, LCDR, CHC, USN
Chaplain G. L. Goodman, LT. CHC, USNR
Andy Busch, Student Rabbi
Hearing Impaired Equipment, Nursery Available
Phone NWC ext. 3506, 2773, 2873

Cerro Coso begins registration

Early registration for spring courses for continuing students at Cerro Coso Community College will be Dec. 3-7, 10 and 11 by appointment. Early registration for new students will be Dec. 5 and 10 by appointment. Regular registration for continuing students will be Jan. 7-10 by appointment, while continuing and new students can register Jan. 8 and 9 by appointment. Schedules will be available in the Training Center lobby when released by the college.

The Center will pay for an employee's full tuition if the courses are provided under the NWC/Cerro Coso Contract. If employees can show courses are job-related or will strengthen their contributions to the Center's mission, tuition will be paid directly to the college by Code 224.

To apply for Center tuition support, submit a NAVWPNCEN 12410/73 (Rev. 12-88) (Request for On-Center Training) via department channels to Code 224.

If a course is not directly job-related, a NAVWPNCEN 12410/66, Academic Enrollment Justification and NAVWPNCEN 12410/68, Individual Development Plan (describing how the course fits into the employee's overall career plan and how attendance at the course will strengthen his or her contribution to the Center's mission), must be submitted along with the NAVWPNCEN 12310/73.

If tuition is involved and the employee is not yet a California resident, a DD Form 1556 (Request, Authorization, Agreement and Certification of Training and Reimbursement) must be submitted via department channels to Code 224. A **job order number is required** on the DD Form 1556.

Code 224 will return the approved NAVWPNCEN 12410/73 or DD Form 1556 to the employee, who **must** take it to Cerro Coso when registering for NWC to pay the tuition.

A NAVWPNCEN 12410/73 or DD Form 1556 is not required for co-op students. Simply tell the registrar you are an NWC co-op student when registering.

Requests for tuition support (NAVWPNCEN 12410/73 or DD Form 1556) must be received by Code 224 at least three days prior to the employee's registration at Cerro Coso. This allows the request to be processed and returned in time for registration. **The approved NAVWPNCEN 12410/73 or DD Form 1556 must be taken to Cerro Coso when registering in order for NWC to pay the tuition. Employees who pay tuition will not be reimbursed.**

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

Soldering technology facility schedules two classes

Two soldering courses have been planned for December. A 40-hour high-reliability soldering course to MIL-STD-2000 will be held Dec. 10-14, while a 24-hour recertification course will be held Dec. 17-19. Both classes will be held from 7:30 a.m. to 4:30 p.m. at 543 Graaf Street. A current eye exam is necessary for either class.

The first class is for government/contractor per-

sonnel needing certification as inspectors or operators. Previous soldering experience is required.

The second course is for government/contractor personnel requiring annual recertification as inspectors or operators. Previous certification to MIL-STD-2000 is required.

To register, call the Soldering Technology Training Facility, Code 36812, at 446-5571.

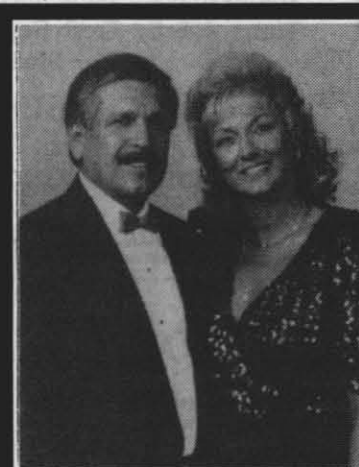
Management skills taught at NWC

Management Skills for Administrative Personnel (16 hours)

Jan. 16-17, 0800-1600, Training Center. By Dr. Suzanne Hard.

Scope: This dynamic two-day seminar will increase your effectiveness, impact and productivity. Learn to increase your credibility, team building skills and ability to get things done through other people -- even when you have no formal authority over them. Here's what you will learn. Identifying and developing your leadership style -- identify your leadership skills and styles, understanding situational leadership, using power and influence effectively. Motivation -- how to motivate when you have no position authority. Communication with effectiveness -- understanding verbal and non-verbal systems, sharpening listening techniques, learn to identify conflict styles and negotiate solutions, improving decision making and risk taking skills. Planning and organizational skills -- use action planning tools, setting priorities, handling anxiety, stress and conflict, team building techniques. Goal setting -- locating your challenge of change, step-by-step time lines to goals. Networking and mentoring -- establish partnerships with your co-workers, identify your keys of talent, image and exposure.

Deadline: January 2.



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Some items not available in some stores. Intermediate markdowns may have been taken.

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Upcoming external degree courses revealed

(Continued from Page 19)

Solution methods are demonstrated on a wide range of engineering topics, including structures, fluids, thermal energy transport and mechanical systems. ME 501A and ME 501B form an integrated, two semester sequence. ME 501B emphasizes physical phenomena that can be described by Partial Differential Equations.

Note: This is a core course for the master's degree program in mechanical engineering through CSUN.

Text: *Advanced Engineering Mathematics*. Kreyszig Wylie, sixth edition; and *Basics of the Finite Element Method*. Paul E. Allaire. W.C. Brown Publishers, 1985 (ISBN 0-697-00119-9).

ME 594C: Seminar on Turbulence (3 units)

January 28-May 20; Mondays, 1610-1910; Training Center. By Dr. Gutmark, NWC ext. 3745.

Prerequisite: Knowledge of fluid dynamics and viscous flows.

Scope: Introduction to turbulence, laminar and turbulent flows, basic equations of motion, Reynolds decomposition, Eddy viscosity. Turbulence theories: mixing length, statistical approach, energy balance, large-scale coherent structure. Free shear flows: turbulent shear layers, jets and wakes, plumes. Wall bounded turbulent flows: boundary layer flow, instability and transition, relation to drag, separation and heat transfer. Turbulent flows in engineering. Measurements of turbulent flows and visualization techniques: hot wire anemometry, laser doppler

velocimetry, temperature fluctuations measurements.

Text: *A First Course In Turbulence*. H. Tennekes and J.L. Lumley. M.I.T. Press, 1989.

IE 507C: Seminar In Industrial and Systems Engineering (Simulation) (3 units)

January 31-May 23; Thursdays, 1610-1910; Training Center. By Professor Kang Chang, CSUN, (818) 885-2166; and Luke Crews, NWC ext. 4867.

Scope: Application of computer simulation to design and analysis of engineering systems. Model development and validation. Includes simulation of both discrete event and continuous variable systems.

Note: This is a core course for the master's degree program in systems engineering through CSUN.

Text: *Simulation Modeling and Analysis*. Avenill M. Law and W. David Kelton. McGraw-Hill, second edition.

AM 542: Finite Element Method In Mechanics (3 units)

January 30-May 22; Wednesdays, 1610-1910; Training Center. By Ron Marvin, NWC ext. 5116.

Prerequisite: A course in structures and a knowledge of a computer programming language such as FORTRAN or consent of instructor.

Scope: Study of structural mechanics problems by use of finite element method. Course will cover review of background information, formulation of the various basic elements, assembly of elements and application of the method to selected topics in structural mechanics.

Text: *Finite Element Structural Analysis*. T.Y. Yang, Prentice-Hall, 1986.

MATH 477: Theory of Probability (5 quarter units)

January 8-March 14; Tuesdays and Wednesdays, 1610-1810; Training Center. By Dr. Lee Lucas, NWC ext. 5219.

Prerequisite: MATH 6C: Calculus III or equivalent or consent of instructor.

Scope: Axiomatic probability, random variables, density and distribution functions, common probability distribution, conditional probability, central limit theorem.

Text: TBA

Note: This is a foundation course for the master's degree program in systems engineering and for the master's degree program in computer science through CSUC. This is a required course for the bachelor's degree program through CSUC.

Cal State University, Bakersfield

Following are classes being offered this winter for the Cal State University, Bakersfield (CSUB) bachelor's degree in business administration and the master's degree in administration programs.

MGT 302: Introduction to Operations Management (5 quarter units)

Jan. 7-March 11, Mondays, 1610-2110, Training Center. By Professor Vigen, CSUB, (805) 664-2332.

Prerequisite: MGT 301: Quantitative Methods for Business Decisions or equivalent or consent of instructor.

ADM 600: Seminar in Management (5 quarter units)

Jan. 10-March 14, Thursdays, 1610-2110, Training Center. By Professor Taryan, CSUB, (805) 664-2326.

Scope: Examination and application of theories and concepts pertaining to the effective acquisition, allocation and utilization of resources -- human, financial and material in pursuit of organizational objectives. Deals with the functions of management, including planning, organizing, controlling, directing and staffing of complex organizations, as well as the processes of management, including leadership, decision-making and communication.

Note: This is a core course for the bachelor's degree program in business administration through CSUB.

ACC 303: Managerial Accounting (5 quarter units)

Jan. 10-March 14, Thursdays, 1610-2110, Training Center. By Professor Burrows, CSUB, (805) 664-3406.

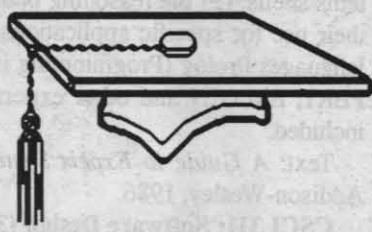
Prerequisite: BS AD 1b: Principles of Accounting II or equivalent or consent of instructor.

Scope: Internal accounting, with emphasis on generation of information for managerial planning and control. Cost accumulation through conventional systems, and for fully automated factories, comparison of budgeted and historical data, introduction of standards and analysis of variances. The concepts of direct costing, responsibility accounting, by-product and joint product costing.

General Comments

Job-related courses other than those listed above or those offered under contract with Cal-State, Chico; Cal-State, Bakersfield; or Cal-State, Northridge, must be approved on a DD 1556 (Off-Center Training Request) before registration if NWC is expected to pay for the training.

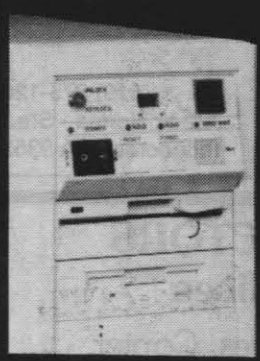
For more information, call Cecil Webb at NWC ext. 2648.



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Computing Technology

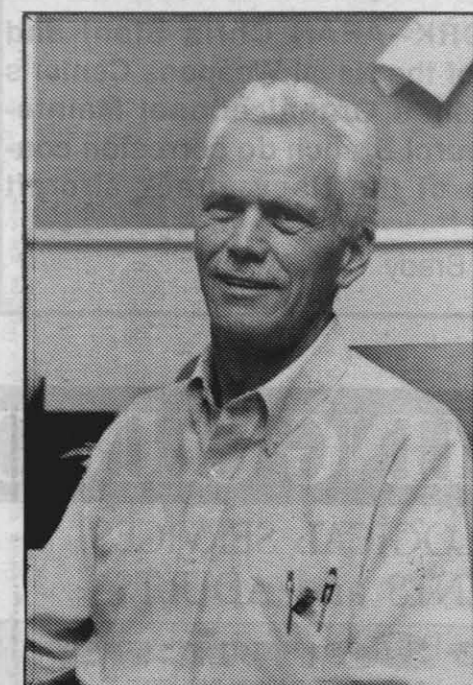
Computer Store

251 Balsam St. 375-5744 quality, service, price

New leader directs geothermal operations

(Continued from Page 1)

After receiving his doctorate, he joined the staff of the U.S. Department of the Interior, in Washington, D.C. It was during the troubled energy crisis period that he worked from 1972-78 as program manager for research designed and implemented to complete a thorough assessment of the impacts of off-shore oil and gas exploration. "We studied everything from bacterial populations to the number of policemen you'd need in Egg Harbor New Jersey, if they discovered oil or gas in the Baltimore Canyon," stated the geologist. Operating a 52 million dollar budget and responsible for studies in every part of the



Dr. Frank Monastero

outer continental shelf during the six years there was "very exciting and always interesting!"

It was then on to commercial industry for the next ten years, where Monastero worked mainly in the field of oil and gas exploration and development. He conducted research on several energy projects including geothermal work in eastern Montana, Southeast Asia, the Middle East, Alaska (off-shore), and California (on-shore). For three years he owned an energy development company which he felt was reasonably successful. "With the downturn in the energy business I just got tired of beating my head against the wall," said Monastero. He decided to come back to public service and began working with the district office Bureau of Land Management (BLM) in Riverside, Calif. "When I was offered a position at NWC, it was one I couldn't refuse. The geothermal program here is very successful due to efforts by the Navy and Carl Austin. The whole thing is contingent on a good foundation, I feel fortunate to have inherited a rock solid program."

The program manager foresees laying new blocks of development on top of the foundation already established. This will include looking into further expansion and development of the Coso field and trying to provide power to parts of the base that aren't yet experiencing the benefits of clean geothermal energy. Future expansions will also include developing other Navy installations like NAS Fallon, Nev., Adak, Alaska, and possibly nearby Ft. Irwin and Air Force facilities. Monastero firmly believes geothermal energy is one of the truly clean sources of energy available in the world.

"The people at the Geothermal Program Office are firmly committed to the development of the resource for the benefit of the Navy, and we believe this resource can be developed in concert with the primary mission of the base. We're very cognizant of the importance of protecting the primary mission," said Monastero. The Coso facilities are located on the outer envelope of the test ranges. When tests are scheduled during the week the facilities are put on automatic, all personnel are evacuated beyond the gate and tests are conducted. "Ever since the facilities have been operating there has never been a failure where the plant automatically shuts down during a range closure."

...revenues of the plant this year will be in excess of \$4.5 million... over the life of the contract... \$850 million

The geothermal plant operates 97% of the time and produces 240 megawatts of power. "That 240 megawatts of power is enough power to provide the needs of approximately one million people." 1000 megawatts of developable power in the shallow reservoir has been estimated as the ultimate capacity at Coso by Dr. Austin, former head of the geothermal program. "We've recently had success in drilling what are called step-out wells" said Monastero. "These wells are out of the main reservoir area and hoped to be part of a new reservoir." In the coming year there are plans to further test and evaluate the extent and quality of the new resource found in these wells. "If we are in a new

portion of the reservoir there may be enough steam for another plant, which could mean more power available for NWC and more revenue for the Navy." All of the salaries and costs associated with running the Geothermal Program are paid for from the revenues earned at Coso; there are no appropriated funds expended.

This calendar year the savings on the electricity bill for the base will be about 35% of the total electric bill, or about 4.3 million dollars. The revenues the plant will make this calendar year will be in excess of 4.5 million dollars and savings and revenues over the life of the contract are conservatively estimated to be in excess of \$850 million. The revenues are used for administration of the contract, exploration and development of geothermal resources in new locations at NWC and other DoD facilities, and support of Energy Cost Avoidance Programs.

"Like the old phrase says...whiskey is for drinking and water is for fighting...that's the way it's been in the west for 100 years," commented Monastero concerning the water supply in the Valley. The geothermal office has used isotopic studies to conclude the origin of the water is from the Sierra Nevada and has no relationship to the water in the Valley. "We reinject 80% of what we produce, 20% lost is through evaporation at the cooling towers. We virtually put everything back in the ground we produce." Monastero feels people concerned with the ultimate water sources should be aware of the drilling being done by the Bureau of Reclamation in the Indian Wells Valley. "The first well punched off Highway 178, west of town, (Continued on Page 11)

Updates change days

Persian Gulf crisis updates, which are given each week by Air Test & Evaluation Squadron FIVE (VX-5) personnel, will now be held each Wednesday morning at 8 a.m. in the VX-5 conference room, Hangar I. For more info, contact Lt. Kevin L. Baker at NWC ext. 5728.



Sunday night! Watch the Packers & Vikings NFL game live on ESPN Channel 14 at 5:30.



Zenith has just been designated as the official personal computer of the NFL.

Computer Store

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Part of Knox Road closed to traffic today

Due to construction, Knox Road will be closed to traffic today (Friday). Vehicle traffic north of the Naval Weapons Center's Administration Building lot will be detoured through the Michelson Laboratory parking lot.

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2 Locations:

Intersection of Hwys. 14 & 58, Mojave (next to Chief Auto Parts)

Ridgecrest Blvd. & China Lake Blvd., Ridgecrest (next to Denny's Restaurant)

Opens December 14th

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by
Alex Topar
&
Mary Frost
Graduate Gemologist



Until about 1450, diamonds were worn only by those of royal birth. Agnes Sorel, a mistress of King Charles VII of France, was the first commoner to wear diamonds. She was only 18 years old at the time.

Even today, the possession of a fine diamond makes anyone, of any age, feel like royalty. You're invited to inspect our selection. Diamonds are the perfect gift.

Mr. T's Fine Jewelry

Sierra Lanes Plaza

NEX offers new services

Additional changes are being implemented by the Naval Weapons Center Navy Exchange to provide better service to its customers, noted Ensign Michael E. Corsey, officer-in-charge.

People shopping for diamond jewelry at Christmas can now find full carat stones at the local store. NWC's NEX will also start carrying mattresses and box springs from Sealy, Serta and Simmons; major appliances; and 9- and 13-inch televisions made

or assembled in Mexico.

The store has also increased its Take Home Layaway Program to allow patrons up to six months to pay for items. In response to customer requests, said Ens. Corsey, the NEX is now carrying a complete line of Fashion Faire cosmetics and are providing free samples with each Fashion Faire purchase.

Don't forget to mark your calendars for the upcoming events being held by the Navy

Exchange.

•Free gift with purchase of Black Hair products.

•NEX Twilight Sale on Nov. 30 from 6:30 to 9 p.m.

•NEX Kids Shopping Night on Dec. 7 from 6:30 to 8 p.m.

•NEX Customer Appreciation Night on Dec. 14 from 6:30 to 9 p.m.

During the Kids Shopping and Customer Appreciation nights, there will be refreshments and prize giveaways.

Housing Office provides tips

HOUSING SAYS Vacating quarters? Here are some things you can do to make your move easier. Thirty days prior to vacate date, an Intent to Vacate Notice must be filed at the Housing Office. A preliminary and final inspection will be scheduled at that time. If you choose to hire a cleaner we will provide you with a list of approved cleaners. A cleaner guide will also be given to you at this time and should be with you when the inspector does the preliminary inspection. The

inspector will answer any questions you might have.

Remember to call the Trouble Desk, NWC ext. 2380, prior to vacating for problems with items needing repair in your home. Start minor cleaning well in advance of your move. If you need assistance with relocating or want any information on your next duty station, let us help you. The Housing Office staff is here to make your move as effortless as possible.



SAILORS AT WORK--AEAN Chris Stahl and AMS1 Tim Fulton of the Naval Weapons Center's Aircraft Department's Organizational Maintenance/Material Control Branch do corrosion control work on one of the Navy attack aircraft assigned to NWC.

Photo by PH3 Cary Brady

MIP office moves to Code 055

Still coming up with revolutionary ideas to help the Center? We still want to hear them, but we've changed codes and wanted to let you in on the news. The Model Installation Program (MIP) office is alive and well and still processing your ideas, but it's doing it from a new code. The MIP office has changed organizationally from Code 0121 to Code 055. The move is part of the process to focus resources on the development of an improved suggestion/idea program which was started earlier this year.

The office is still located in room 2025 of the Administration Building and you can still reach the MIP team (Bruce MacIntosh and Melanie Truesdale) by calling NWC ext. 2311/2437 or by sending your "E" mail on SCF::MPI. Our guard mail address is now Code 055. So get your thinking hat on - there could be a MIPI cap in your future too.

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Spring class schedule announced by colleges

To enroll in any of the following classes, submit a NAVWPNCEN Form 12410/73, Request for On-Center Training, via department channels to Code 224. Registration will be held at the first class meeting. **Deadline for enrolling is 10 calendar days before the class starting date.** Enrollments in courses will be on a first come, first served basis, unless otherwise stated.

Cal State University, Chico

Following are classes being offered this spring for the California State University, Chico (CSUC), Computer Science Program (bachelor's or master's degrees).

CSCI 152: Operating Systems Programming (3 units)

Feb. 9-10, March 16-17, May 11-12; Saturdays and Sundays, 0800-1600; Training Center. By Professor Clem Luk, CSUC, (916) 898-4590. Lab, which will be conducted by Howard McCauley, NWC ext. 2274, will be held on Tuesdays from 5 to 6 p.m., commencing Feb. 12.

Prerequisite: CSCI 171: Computer Architecture or equivalent or consent of instructor.

Scope: Operating system concepts and techniques. Course includes study of linkage-editors, loaders, channel operations and interrupt handlers.

Text: TBA.

Note: This is a core course in the bachelor's degree program in computer science through CSUC. This is a required foundation course for the master's degree program in computer science through CSUC.

CSCI 222: Expert Systems and Applications (3 units)

Jan. 29-May 23; Tuesdays and Thursdays, 1400-1515; Training Center (via satellite). By Professor Anne Keuneke, CSUC, (916) 898-5998.

Prerequisite: CSCI 151: Algorithms and Data Structures or equivalent or consent of instructor.

Scope: The basic concepts and techniques of current and future expert systems. Emphasis is on (1) expert systems shells, (2) the reasoning behind their design, and (3) their use for specific applications. Use of a subset of the languages Prolog (Programming in Logic), OPS5, VPEXPERT, EMYCN and other expert systems shells will be included.

Text: *A Guide to Expert Systems*. Donald Waterman. Addison-Wesley, 1986.

CSCI 311: Software Design (3 units)

Jan. 29-May 23; Tuesdays and Thursdays, 0800-

0915; Training Center (via satellite). By Professor Ralph Hilzer, CSUC, (916) 898-5748.

Prerequisite: CSCI 210: Software Engineering or CSCI 270: Systems Design or equivalent or consent of instructor.

Scope: Tools and techniques for design and implementation phases of software life cycle. Design heuristics, structured design, impact of language features on design and coding style, design representations and implementation strategies. Data structure and data-flow-driven designs.

Text: TBA.

Note: This is a required course for the software engineering option of the master degree program in computer science through CSUC.

CSCI 380: Digital System Design (3 units)

Jan. 29-May 23; Tuesdays and Thursdays, 1230-1345; Training Center (via satellite). By Professor Robert Britton, CSUC, (916) 898-4487.

Prerequisite: A digital logic design course or equivalent experience or consent of instructor.

Scope: Application of top-down digital logic design techniques to the design of contemporary digital systems, with a special emphasis on Reduced Instruction Set Computer (RISC) architectures.

Text: TBA.

CSCI 320A: Digital and Analog Transform Theory (3 units)

Feb. 2-3, March 2-3, April 6-7; Saturdays and Sundays, 0800-1600; Training Center. By Professor Luxenberg, CSUC, (916) 898-4653.

Prerequisite: Mathematical interest and ability.

Scope: Seminar in the application of Fourier Transform methods to transmission methods. Bandwidths, data rates, relation between signal-to-noise and bit error rates. The sampling theorem and pattern recognition.

Text: *Fourier Transform and Its Application*. Bracewell. McGraw-Hill, 1986, second edition.

MATH 477: Theory of Probability (5 quarter units)

Jan. 8-March 14; Tuesdays and Thursdays, 1610-1810; Training Center. By Dr. Lee Lucas, NWC ext. 5912.

Prerequisite: MATH 6C: Calculus III or equivalent or consent of instructor.

Scope: Axiomatic probability, random variables, density and distribution functions, common probability distribution, conditional probability, central limit theorem.

Text: TBA.

Note: This is a foundation course for the master's degree program in systems engineering through CSUN and for the master's degree program in computer science through CSUC. This is a required course for the bachelor's degree program through CSUC.

Cal State University, Northridge

Following are classes being offered this Spring for the California State University, Northridge (CSUN), Engineering Program (master's degree).

EE 461N: Digital and Data Communications Systems (3 units)

January 29-May 21; Tuesdays, 1610-1910; Training Center. By Professor Ray Pettit, CSUN, (818) 885-4722.

Prerequisite: EE 450: Probabilistic Systems in Electrical Engineering - Design and Analysis and EE 460: Introduction to Communication Systems or equivalent or consent of instructor.

Scope: An introduction to digital communications systems. Topics include coding schemes such as Pulse Code Modulation and Delta Modulation, channel capacity considerations, performance of baseband systems, amplitude shift keying, frequency shift key and phase shift keying. An introduction to data communication methods will also be included.

Text: *Digital Communications*. Haykin. Wiley, 1988.

EE 569N: Advanced Topics In Communications/Radar (3 units)

January 28-May 23; Mondays, Wednesdays and Thursdays, 1130-1230; Training Center. By Dr. Wade Swinford, NWC ext. 2878.

Prerequisite: EE 550N: Random Processes or equivalent or consent of instructor.

Scope: Presentation of recent topics in communications and radar, using selected papers from current literature as the basis.

Text: TBA.

ME 501B: Seminar in Engineering Analysis (3 units)

January 29-May 23; Tuesdays and Thursdays, 1610-1740; Training Center. By Frank Mansfield, NWC ext. 2627.

Scope: Analytic and numerical methods applied to the solution of engineering problems at an advanced level. (Continued on Page 20)

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(Continued from Page 17)

leave.

Melvin R. Mather, Engineering Technician, Code 3921 -- is recuperating from surgery and is indebted for leave.

Patricia Jaime, Editorial Assistant, Code 3647 -- is undergoing medical treatment and is in need of leave.

Susan E. Gehres, Secretary, Code 3112 -- was involved in a car accident and is under a doctor's care at Loma Linda. She will not be able to return to work until March.

Madeline Kay Blackston, Computer Security Specialist, Code 6447 -- is required to care for her husband who has terminal lung cancer.

Cheryl Mosley, Secretary, Code 3217 -- is in need of leave to care for her son who underwent surgery.

Lorraine Gunther, Supervi-

sory Mathematician, Code 303 -- underwent emergency surgery and is indebted for leave.

Jo Miller, Mathematician, Code 3191 -- needs leave due to multiple medical problems.

Teresa McGowan, Equipment Specialist, Code 3641 -- is indebted for leave due to major surgery.

Deborah Leonard, Secretary, Code 6535 -- had a gall bladder attack and is indebted for leave.

Teresa Clower, Procurement Clerk, Code 2623 -- is taking care of her husband who has had two major hip surgeries. She has exhausted all her leave.

Tamera Nelepovitz, Electronic Technician, Code 3573 -- is experiencing severe complications due to dependent diabetes and is indebted for leave.

Linda Watkins, Procurement Analyst, Code 2504 -- is in need of leave due to ongoing treatment

for cancer.

Karen Linard, Industrial Engineer, Code 3291 -- underwent major intestinal surgery and is in need of leave.

Polly Bainbridge, Secretary, Code 3922 -- is currently undergoing medical treatment and is indebted for leave.

Carolyn King, Engineering Data Management Specialist, Code 36541 -- underwent

surgery.

George Petty, Physicist, Code 3924 -- was admitted to the Duke University Hospital on an emergency basis with the diagnosis of acute myelogenous leukemia.

Satik Martinsen, Management Assistant, Code 36402 -- is diagnosed as having nodular sclerosing Hodgkin's Disease and is currently undergoing treatment.

Jane E. Casey, Technical Writer/Editor, Code 3412 -- underwent surgery to remove a malignant tumor.

Jay W. Hill, Electronic Technician, Code 6421 -- is being treated for pneumonia and valley fever and is indebted for leave.

For more information about the Leave Donor Program, call NWC ext. 2018.

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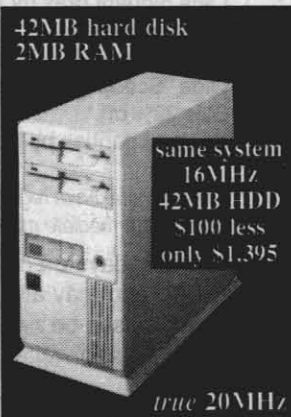
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Saudi desert makes NWC look like an oasis

Mail call remains important to troops

Keep those cards, letters, tapes and packages coming!

That's the message the troops deployed to Saudi Arabia afloat in the region would probably give if they could talk to people here in the States.

As HM3 Chris Kateley says in the feature article on this page, mail call is real important to the men and women so far from home. It is especially true this time of the year.

For the most part the Marines, sailors, soldiers and airmen taking part in Operation Desert Shield share the mail, the letters, the food, the tapes and the books with many others in their outfit. When you are thousands of miles from home, in the middle of a hostile environment, little things, such as the mail, becomes very important. Everyone wants to get mail.

The addresses to send mail to service members deployed over there are repeated below. The mail shows the people at home care, that they support the troops and the men and women serving have not been forgotten.

For sailors and Marines afloat in the region the address is:

Any Servicemember
Operation Desert Shield
FPO New York 09866-0006
For soldiers, airmen and Marines on land, the address is:

Any Servicemember
Operation Desert Shield
APO New York 09848-0006

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Classifieds Get Results!

(Continued from Page 1)

The camps were as close to comfort as the Marines and corpsmen saw. They were close to civilization with paved roads, television showing movies, showers and lots of recreation facilities.



HM3 Chris Kateley

In the field, life was more rugged. They put up with extremely high temperatures and high humidity during the first month or two. Then in November the nights started getting cold, while daytime was still very hot and very humid.

Sand, camel dung and flies were everywhere. "The flies were the worst," said HM3 Kateley. "They were into everything, all over your face, they would try to get in your mouth, eyes, up your nose and into your ears." The Marines finally got a hold of some fly swatters, thanks to ARAMCO personnel. Kateley said he named his "Doc Swat the Fly Killer" and counted a pile of 200 plus flies he killed at one sitting.

Next to the flies, came the sand; whipped by fierce winds, the sand literally got into every-

thing. The Navy corpsman noted the sand helped cut down his appetite since there was so much camel dung in the sand and the sand frequently got into the food. He figured that was one of the prime causes of the dysentery and diarrhea he found to be his top medical problems. The other cause was not drinking enough water.

Since most of the water they drank in the field was distilled from sea water and treated with large doses of chlorine, and tasted like swimming pool water, some of the troops didn't want to drink their quota for the day. Kateley found the Marines responded well to his advice to drink the water or he would have to send them to the Battalion Aid Station (BAS) where they would get the fluids intravenously. Since they disliked the idea of a needle in their vein more than they disliked the water, it worked.

"I still worry about the guys over there. I plan to send...care packages..."

Then there were the snakes, scorpions, dung beetles and other pests. The snakes and scorpions sometimes provided amusement for the troops. They would put two scorpions or two snakes in a pit and see which would win. The little green scorpions stung a lot of people, but generally it wasn't serious. "It wasn't unusual to wake up and find two or three of these little green scorpions had crawled under your pancho with you," added HM3 Kateley.

While he has spent five of his

nine years in the Navy assigned to FMF units afloat, this was the first time he'd spent time with ground units and Kateley was very impressed with their skills, their professionalism and their camaraderie.

"I still worry about the guys over there. I plan to send them



IT WAS HOT--Hospital Corpsman Third Class Chris Kateley talks about his time in Saudi Arabia in support of the Marines from Camp Pendleton.

some Christmas care packages with books, cards and stuff they can use to pass the time with," he added. Sports equipment and Walkman-type portable radios are also popular with the troops in the desert. Kateley commented they depended on these little radios for current news, via the Armed Forces Radio and Television System (AFRTS) and Arab country radio stations. "Newspapers were always at least two or three days old, but with AFRTS we would keep track of what was happening in Washington," he said.

Petty Officer Kateley is scheduled to get out of the Navy on Dec. 21. He plans to fly home to Wisconsin for a holiday visit, then

return to Ridgcrest and enroll at Cerro Coso Community College. He wants to stay in the area and continue to work in the medical field.

"I never expected in my wildest dreams to wind up in the Middle East. I was happy doing my job at the Branch Medical

Clinic and leading a routine life here." Now he hopes to continue his education and lead a somewhat mundane existence for a while.

But, he knows he isn't home free just yet. There is still an outside chance the Marines could get him back. He came back to China Lake because the Navy, unlike the Marine Corps, has not yet instituted a "stop loss program" to keep people on active duty beyond their enlistment period. But, if the Navy changes policy, he could go back. While Kateley isn't excited about returning to Saudi Arabia he says he'll go if they need him.

For now however, Chris Kateley is "glad I'm out of there!"



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Technical groups meeting

CLWISE

Dr. Jo Covino-Hrbacek and Terry Mitchell will be the guest speakers at the next China Lake Women In Science and Engineering (CLWISE) luncheon, which is set for Dec. 12 in the Banquet Room at the Carriage Inn from 11:30 a.m. to 1 p.m. Cost for the luncheon is \$5.50, which is for soup and salad, beverage and a tip.

Dr. Hrbacek is a national leader in the fields of electrostatic discharge hazards in energetic materials, and inorganic materials synthesis and characterization. She will give an *Overview of the Research Department*, while Mitchell, who is the head of the Organization Change Office, will discuss *Leadership: Many Are Called But Few Are Chosen*.

Reservations are required by Dec. 7. Checks for \$5.50, made

payable to "Carriage Inn," may be sent to Barbara Vaughn, Code 3135 (NWC ext. 4770), or Alice Campbell, Code 3158 (NWC ext. 3531).

SIGADA

Robert K. Page from the Missile Software Branch, Code 3922, will discuss the concept of an Ada language hardware co-processor at the next SIGADA Popcorn Forum, which is scheduled for 3:30 p.m. on Wednesday, Dec. 12, at the Naval Weapons Center Training Center.

Ada's advanced facilities for concurrency and time management may require the assistance of a hardware co-processor much like a math co-processor assists in floating point calculations. A co-processor has been developed by the University of Lund, Sweden, to handle concurrency. Page has established the requirements and

proposed a real-time hardware clock to relieve the high overhead associated with software time keeping, while providing the performance necessary for real-time systems.

Page has worked on digital and analog circuit design, developed software for single and multi-processor embedded computers, adapted Ada runtime systems to small embedded computers, and evaluated hardware architectures for use in missiles. He served one year as a Navy affiliate at the Software Engineering Institute, Carnegie Mellon University, working on the "Real-Time Scheduling In Ada" project. He is currently involved in an investigation to implement Ada on a multiprocessor architecture.

For more information, contact Brad Clark, Code 3922, NWC ext. 1276, or Linda Roush, Code 3142, NWC ext. 5575.

October weather continued warm trend at NWC; experts anticipate cold December to wrap up year

October continued the trend for 1990 and was a little warmer than usual on board the Naval Weapons Center. There was only one day with measurable precipitation, with a 0.01 of an inch recorded on Oct. 18.

According to the Range Meteorology Office, the high recorded during the month was 97 degrees with the low of 33 at the Range Systems Laboratory. There was an average daily temperature range of 52 degrees, the most swing on record for October.

BLM reopens some closed roads in tortoise habitat areas

As promised by the Bureau of Land Management (BLM) in September, the emergency quarantine and road closures estab-

lished in October 1989 was lifted on Nov. 21. The area affected included public lands in the Desert Tortoise Natural Area,

Western Rand Area of Critical Environmental Concern, and the region east of Willis Well Road, almost to Highway 395.

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non-pay status for at least ten days. Employees who wish to donate annual leave to the employee should fill out the form at the end of this column, clip it out and send it to Code 221. For more information about this program, call

NWC ext. 2018.

Barry A. Smith, Electronics Engineer, Code 3931--is experiencing symptoms of meningitis and is indebted for (Continued on Page 18)

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(Continued from Page 15)

knowledge of photo-optical and electro-optical systems used in gathering field test data; knowledge of NWC test range instrumentation; knowledge of NWC test range operations; knowledge of test and evaluation of weapons systems. Promotion potential to DT-3 but not guaranteed.

No. 62-040, Electronics Technician, DT-856-2/3, Code 62311- This position is in the Electro-Optical Branch, Instrumentation Systems Division, Range Department, Naval Weapons Center, China Lake, CA 93555. The incumbent operates, maintains and develops improvements to highly specialized tracking instruments (laser trackers, man operated tracking mounts, and associated analog and digital data systems) and the medium and high speed film and video camera systems used for gathering test data on NAVWPNCEN test ranges. The incumbent will improvise new methods and techniques for these systems and their use, as well as assist in planning and conducting field tests. Typical equipment used within the branch are man operated, motor driven tracking mounts, laser systems, 16 and 35 mm medium and high speed film cameras, shuttered video cameras, recording devices, micro-wave communications, and other related equipment. This position requires out-of-doors and at various down range locations. **Job Relevant Criteria:** Ability to troubleshoot digital and/or analog circuits; skill in using electronic test equipment; skill in repairing optical equipment; knowledge of photo-optical and electro-optical systems used in gathering field test data; knowledge of NWC test range instrumentation; knowledge of test and evaluation of weapons systems. Promotion potential to DT-3 but not guaranteed.

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

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

No. 26-036, Secretary (Typing), DG-318-1/2, Code 2611 - This position is primarily located in the Management Information Branch, however, the incumbent will act as a floater for various offices within the Public Works Department. The incumbent will provide secretarial support using a VAX terminal and occasionally a Macintosh. Experience in both is desirable. Full performance level: DG-2.

No. 39-045, Secretary (Typing), DG-318-2/3, Code 393 - This position is open to current 03 employees only. This position is located in the Intercept

Weapons Department, Fuze Sensor Systems Division. Incumbent provides secretarial and administrative support for the division Head and staff. Knowledge of NWC operations and regulations is desired with special emphasis on NWC correspondence procedures. Ability to meet and deal effectively with others is highly desirable. Knowledge and working skill on the Macintosh II PC is desirable. Promotion potential

to DG-3, but not guaranteed.

No. 39-048, Secretary (Typing), DG-318-1/2, Code 3952 - This position is open to current 03 employees only. Incumbent will provide secretarial and administrative support to the RF Guidance Analysis Branch. Knowledge of and working skill on the Macintosh PC is desirable. Must be able to obtain and maintain a Secret clearance. Promotion potential to DG-2.

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 applications 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. 35-012, Interdisciplinary Mechanical Engineer/Electronics Engineer/Aerospace Engineer/Physicist/Mathematician/Computer Scientist DP-830/855/861/1310/1520/1550-2/3, Code 3518 - These positions are in the Weapons Concepts Branch, Weapons Systems Analysis Division, Attack Weapons Department. The branch is responsible for the development of weapons system simulations and analysis of proposed, developmental or operational missile systems. Simulations may be all digital, hardware-in-the-loop, or various combinations, and include all aspects of missile flight and guidance. Proficiency in FORTRAN programming language is desirable. Must be able to obtain necessary security clearance. SF-171 should be sent to Don Kappelman, Code 3518, ext. 6671. Previous applicants

need not reapply.

No. 36-031, Supervisory Interdisciplinary (General/Mechanical/Electrical/Electronics/Aerospace Engineer/Physicist), DP-801/830/ 850/855/ 861/1310-3/4, Code 3609 - This position is the Deputy Program Manager in the Phoenix Program Office. The branch is responsible for providing overall direction, coordination and management of all facets and functions of a major technical program. Promotion potential to DP-4, but not guaranteed. Incumbent may be required to serve a one-year supervisory probationary period. Incumbent must have knowledge of willingness to support NWC EEO program goals and objectives.

Please submit a current SF-171 to Alex Shlanta, Code 3609, ext. 1197. Restricted to 03 directorate only.

CSUB counselors visit Center

Academic counselors of Cal-State University Bakersfield will be on-Center Dec. 7 to advise current and prospective students in the external degree programs offered by that school.

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

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Safety Sense:

Personal protective equipment makes difference when maintained, ready for proper uses

Often, the use of personal protective equipment (PPE) is so basic people take the equipment for granted. While PPE is used frequently in the Navy, many times the equipment is not maintained properly. The false sense of security derived from using inadequate or poorly maintained PPE can set the stage for accidents and injuries.

Therefore, it is important not only to use the best PPE for the job, but also to inspect, and if necessary, correct the condition of the equipment before and after the job is done. If you find the equipment defective, don't use it. Report it to your supervisor.

Here are some simple PPE checks that should be made:

- **Hardhats** -- ensure liner is properly attached and chin strap is in place. Adjust straps and liner to fit you.
- **Gloves** -- check for holes, proper fit, flexibility and possible contamination from previous use.
- **Safety goggles, glasses and shields** -- inspect for defects or damage. If you find cracks or your vision is impaired, replace the item.
- **Aprons** -- check for holes and tears, and mend or replace as necessary.
- **Respirators** -- never use dirty or contaminated respirators. Before beginning a job, test the respirator. If you have difficulty breathing, change filters. If a chemical odor or taste can be detected, change chemical cartridges. When finished with the respirator, remove filters and cartridges, clean and stow the respirators in zip-lock plastic bags.
- **Ear muffs** -- inspect the outer plastic cover and insulation for wear and cracks. Replace them if they're stiff, worn, cut or torn.
- **Ear plugs** -- inspect for wear, deformity and damage. Be sure the fit is snug and the plugs are clean and flexible.
- **Rubber boots and safety shoes** -- test the flexibility of the boots and shoes. Check for worn soles and cracks in the rubber or leather. Safety shoes should fit comfortably.

by Safety Program Office

NEX station offers cheaper gasoline

While the supply lasts, regular leaded gasoline at the Navy Weapons Center's Navy Exchange Gas Station will be \$1.15, said Ensign Michael Corsey, officer-in-charge. "We are doing some construction in this area, and we need to empty the tank as soon as possible," he explained.

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ANOTHER HITCH—Senior Chief Rodolfo H. Aguilar, assigned to the NWC BEQ, is congratulated by Ens. Brian Able, his re-enlisting officer, after the veteran mess management specialist took the oath of enlistment for another active duty tour with the U.S. Navy.

Photo contest open to active duty military people

Active duty China Lake Navy personnel are eligible to enter the All-Navy Photography Contest sponsored by the Morale, Welfare and Recreation Division of the Navy Military Personnel Command. Reservists can enter if the photos were taken while on active duty.

The contest features competition in four categories that may be submitted in each of three groups, black & white, color prints and color slides (transparencies). Entries in each of the three groups must be submitted in one of four categories:

- Military Life
- People
- Nature/scenic
- Creative effects

All entries must be received by Dec. 30. They should be mailed to: MWR Department, NAS Jacksonville, Bldg. 621, Code 130, Jacksonville, FL 32212-5000, Attn: Photo Contest.

For more information call Debra Poindexter, MWR publicity director at NWC ext. 2602.

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Local Investment Representative
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New products may help meet environmental needs

The following products meet requirements of OPNAVINST 4110.2 or OPNAVINST 5090.2 which require use of less hazardous or environmentally safer products to meet mission goals. The information is provided as a service; products are not endorsed by the Department of Defense, Navy, Naval Weapons Center, or Safety Program Office.

Hydrochlorofluorocarbon (HCFC) alternatives are considered to be less hazardous to the environment than chlorofluorocarbon containing products. A number of

new HCFC products are now available:

Dust-Off Plus is an HCFC alternative for use as a dust remover on photographic and technical instruments. It's available at Edmund Scientific company, 101 E. Gloucester Pike, Barrington, N.J., 08007.

The Miller-Stephenson Chemical Company, Inc., George Washington Highway, Danbury Conn., 06810 offers a variety of HCFC alternatives, including MS-222, a dust remover for use on technical instruments. MS-222 is advertised as being environmentally formulated and technically

designed for improved removal of microscopic dust. CFC free Aero-Duster (MS-222) can be used for Micro-miniature assemblies; electro-mechanical instruments; magnetic tape and heads; timing devices; servomechanisms; rotating instruments; optics; and photography equipment.

MS-170/CO2 is advertised as 1,1,1 trichloroethane in a carbon dioxide propellant for use as a solvent cleaner. MS-195/CO2 (Safezone Solvent & Flux Remover/CO2). MS-242 is advertised as a freezing and fault isolation product.

Panduit is advertised as an aerosol cleaner for electrical contacts which uses "green" CO2 not fluorocarbons as a propellant. For more information, the Panduit Corporation, 17301 Ridgeland Avenue, Tinley Park, Ill., 60477 at (800) 752-0900.

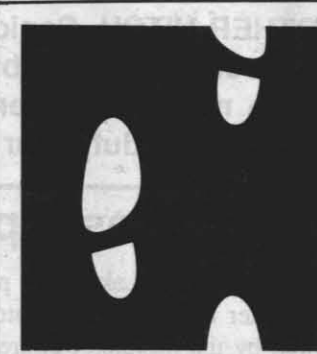
New products available from the Unival Corporation, 498 Nepperhan Avenue, Yonkers, N.Y., 10701. Citrus solvent and degreaser is advertised as an alternative degreaser and cleaner. Du-ol is advertised as a safe, all purpose synthetic penetrating fluid, containing no petroleum distillates.

What Do you Think?

The NWC Rocketeer staff and Center Command want to know what the readers of this newspaper think about the job the staff is doing, the coverage of events and people on board the Naval Weapons Center and ideas you have for allowing the paper to better serve and responded to the customer and reader in a quality fashion.

The staff encourages your article ideas, constructive comments and continued feedback. The form below can be mailed to NWC CODE 0033 via guard mail, or FAX to ext. 2796.

Rocketeer Feedback Forum



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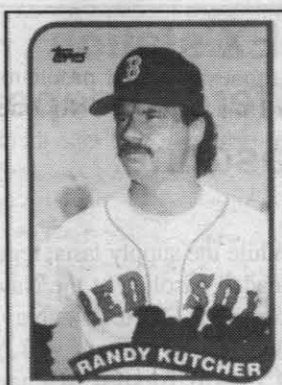
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Qualified employees sought for jobs at NWC

(Continued from Page 14)

sort and distribute all types of documents in a timely, accurate fashion; ability to work within deadlines; ability to respond accurately to organizational changes within the department; ability to work well with a variety of people. Incumbent must be physically able to lift mail tubes and bags weighing approximately 40 pounds. Incumbent must be able to obtain and maintain a secret clearance. Promotion potential to DG-2.

No. 62-033, Flight Test Specialist, DS-301-1/2, Code 6221- This position is located in the Air Operations Branch of the Range Department. As a Flight Test Specialist the incumbent is responsible for assisting project personnel and range customers in the preparation and planning of air tests on the NWC north ranges. Duties include range safety, coordinating range resources, drawing flight profiles and trajectories, and conducting tests on the NWC air ranges. Job Relevant Criteria: Skill in using computers; knowledge of basic mathematics; knowledge of NWC test range operations; ability to communicate orally; ability to work independently. Promotion potential to DS-3. Previous applicants need not reapply.

No. 62-029, Electronics Helper, WG-2604-5/Electronics Worker, WG-2604-8, Code 6213 - This position is in the Instrumentation Branch, Ordnance Test and Evaluation Division, Range Department. The incumbent will help fabricate, install, maintain, and modify digital and analog electronic systems used in the ground testing of rocket motors, warheads, and other ordnance. These systems, include but are not limited to, data acquisition systems, video

systems, fiber optic electronics, communication equipment, control systems, and computers. The incumbent will work with a small dedicated team of mechanics, technicians, and engineers using a variety of modern equipment to help fabricate, install, and test components of systems undergoing maintenance or modification. Job Relevant Criteria for WG-5: Reliability and dependability; shop aptitude and interest; ability to follow directions in shop; dexterity and safety; ability to work as a member of a team. A supplemental is required and can be obtained in Room 100 of the Personnel Building. Promotion potential to WG-11. Job Relevant Criteria for WG-8: Knowledge of electrical/electronic theory; knowledge of mathematics; ability to repair electronic equipment; ability to use electronic test equipment; skill in electronic troubleshooting. A supplemental is required and can be obtained in Room 100 of the Personnel Building. Promotion potential to WG-11. Previous applicants need not reapply.

No. 62-036, Engineering Technician, DT-802-A/1/2, Code 6213- This position is in the Instrumentation Branch, Ordnance Test and Evaluation Division, Range Department. The incumbent will receive training in and help design, fabricate, install, maintain, and modify digital and analog electronic systems used in the ground testing of rocket motors, warheads, and other ordnance. These systems include, but are not limited to, data acquisition systems, video control systems, and computers. The incumbent will work with a small dedicated team of mechanics, technicians, and engineers using a variety of modern equipment to help fabricate, install, and test compo-

nents of systems undergoing maintenance or modification. The work environment offers the opportunity for individual initiative and independent work while experienced support and backup is available when required. Job Relevant Criteria: Knowledge of electronic principles; ability to interpret and apply written and oral instructions; skill in installation, maintenance, and repair of electronics equipment; ability to work alone; knowledge of NWC test range operations. Promotion potential to DT-3, but not guaranteed.

No. 62-037, Electronics Technician, DT-856-2/3, Code 62321- This position is located in the RF Targets Section, RF Targets Branch, Instrumentation Systems Division, Range Department. Primary duties will include system level hardware design and implementation of Advanced Threat Targets. Incumbent will also design, fabricate, document, operate, and maintain RF Targets used for missile testing on NAVWPNCEN North Ranges, as required. Anti-radiation Missile background or radar operating experience is desired, but not required. Job Relevant Criteria: Knowledge of digital and/or analog circuit design; knowledge of microwave systems; ability to design and fabricate one-of-a-kind electronics hardware; skill in using electronics test equipment; ability to maintain, calibrate, and troubleshoot electronic equipment; ability to communicate in writing; ability to communicate orally. Promotion potential to DT-3, but not guaranteed.

No. 62-038, Electronics Technician, DT-856-2/3, Code 62321- This position is located in the RF Targets Section, RF Targets Branch, Instrumentation

Systems, Division, Range Department. Incumbent will design, fabricate, document, operate, and maintain RF Targets used for Anit-radiation Missiles (ARM) testing on NAVWPNCEN North Ranges. Additional duties will include operation and maintenance of state-of-the-art signal receiving, analysis, and recording equipment. ARM background or radar operating experience is desired, but not required. Job Relevant Criteria: Ability to design and fabricate one-of-a-kind electronics hardware; skill in using electronics test equipment; ability to maintain, calibrate, and troubleshoot electronic equipment; knowledge of digital and/or analog circuit design; knowledge of microwave systems; ability to communicate in writing; ability to communicate orally. Promotion potential to DT-3, but not guaranteed.

No. 62-039, Engineering Technician, DT-802-2/3, Code 62311- This position is in the Electro-Optical Branch, Instru-

mentation Systems Division, Range Department, Naval Weapons Center, China Lake, CA 93555. The incumbent operates, maintains and develops improvements to highly specialized tracking instruments (laser trackers, man operated tracking mounts with medium and high speed film and video camera systems) used for gathering test data on NAVWPNCEN test ranges. The incumbent will improvise new methods and techniques for these systems and their use, as well as assist in planning and conducting field tests. Typical equipment used within the branch are man operated, motor driven tracking mounts, laser systems, 16 and 35 mm medium and high speed film cameras, shuttered video cameras, recording devices, microwave communications, and other related equipment. This position requires out-of-doors and at various down range locations. Job Relevant Criteria: Skill in repairing optical equipment; (Continued on Page 16)

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Personnel News & Notes

Promotional opportunities

Applications for positions listed below are being accepted from Department of Navy employees currently working at NWC and from eligible employees of attached activities who are permanently assigned to NWC. This group includes employees with career or career conditional appointments; employees with permanent Veterans Readjustment Act (VRA) appointments; temporary employees with reinstatement eligibility; and handicapped employees with Sch. (A) continuing appointments. Also included are spouses, with competitive status, of civilian sponsors hired by a DOD activity within NWC's commuting area. Applications from other groups will be accepted when specified in an advertisement. Vacancies are subject to restrictions imposed by the DOD Priority Placement Program. Applicants must meet all legal and regulatory requirements, including minimum qualifications requirements, by the closing date of the advertisement. Evaluation of applicant's qualifications will involve using at least two assessment measures. Assessment measures are work experience, annual performance assessment rating and narrative, education, training, performance assessment and awards.

Eligible spouses (of military sponsors) with competitive employment status may apply for employment preference. Those enrolled in this program will automatically receive consideration for employment on vacancies for which they applied. For initial employment information, career counseling and enrollment, call 939-3317 for an appointment.

HOW TO APPLY: Submit the following: a current application, SF-171 or other Human Resources Department pre-approved form; a copy of your most recent annual performance assessment narrative (note: a copy of your performance plan should be attached if the annual performance narrative description does not clearly state the tasks/duties performed); and a completed Background Survey Questionnaire. A supplemental narrative which relates your qualifications to each knowledge, skill or ability (KSAs) as cited in the advertisement is always desirable and may be required if stated in the vacancy announcement. Write the title, series, level (grade), and announcement number on all application materials. Not submitting the annual performance narrative may adversely affect your evaluation scores. Prior to submitting your application, complete Cover Sheet Form 12335/2, available at the reception desk. Make sure your address, phone number, etc. are current, correct and that all forms are complete and accurate. If information is missing, your qualifications may not be fully and completely rated. Additional information cannot be submitted after the closing date of the announcement. A current date and a signature on the last page completes the application. Civilian Spousal Program Eligibles with competitive employment status must submit a copy of their sponsor's PCS orders with each application in order to be considered for Merit Promotion vacancies which do not state that status eligibles may apply.

Application materials are accepted, and blank forms are available, at the Reception Desk, Room 100, Human Resources Department, 505 Blandy. Announcements close at 4:30 p.m. on Friday, one week after the opening date of the announcement, unless otherwise specified. Applications received after 4:30 p.m. on the closing date will not be considered. Copies of Applications may be submitted since applications are kept in an announcement file and cannot be returned or filed in personnel folders. The Naval Weapons Center is an Equal Opportunity Employer; selections are made without discrimination for any non-merit reason.

No. 22-007, Personnel Clerk/Assistant (Typing), DG-203-A/1/2, Code 226 - Incumbent performs the following duties for a major department(s): processes all actions affecting appointments, pay setting, separations, conversions of appointment, etc; performs competitive and non-competitive qualification ratings; performs ranking and may conduct ranking/selection panels; and drafts vacancy announcements for recruitment. At the higher levels, incumbent advises and recommends to supervisors and managers recruitment options for certain occupations (e.g. clerical); participates in various phases of

crediting plan development. **Job Relevant Criteria:** Knowledge of personnel policies and procedures related to staffing; ability to plan, organize, and accomplish work independently; ability to perform a variety of clerical/technical functions; ability to research, comprehend, and apply complex regulatory information. Promotion potential to DG-3. Previous applicants need not reapply.

No. 31-086, Clerk, DG-303-1/2, Code 315 - (This is a Part Time position). This position is located in the Targeting and Fire Control Division of Code 31. The incumbent is responsible for

the receipt, records maintenance, and destruction of classified documents for the Division. The incumbent also provides clerical support to the Division. **Job Relevant Criteria:** Knowledge of NWC security procedures and regulations as related to classified documentation; ability to deal effectively with people; ability to apply rules, regulations, policies, procedures, and instructions. Secret clearance is required. The full performance level of this position is DG-2. The area of consideration for this position is the 03 Directorate. Previous applicants need not reapply.

No. 36-030, Program Manager, DP-340-3/4, Code 3609 - This position is the Deputy Program Manager of the Phoenix Program Office. The branch provides overall direction, coordination and management of all facets and functions of a major technical program. **Job Relevant Criteria** Knowledge of Weapons System Acquisition Process; Technical knowledge of Air Missile Systems and subsystems; Ability to communicate orally; Ability to communicate in writing; Knowledge of and a willingness to support NWC EEO program goals and objectives. Promotion potential to DP-4, but not guaranteed. Incumbent may be required to serve a one-year supervisory probationary period. Restricted to 03 directorate only.

No. 39-044, Supervisory Interdisciplinary (Electronics Engineer/Physicist/General Engineer/Aerospace Engineer/Mathematician/Mechanical Engineer) DP-855/1310/801/861/1520/830-3/4, Code 3951 - This position is Head, Special RF Technology Branch, Radio Frequency Guidance Division, Intercept Weapons Department. The branch is responsible for research and development of antennas, radio frequency (RF) components, and electromagnetic (EM) modeling of RF scattering and radiating systems. The branch also operates an antenna measurement facility and a backscatter range. The incumbent's duties will include directing and participating in technical tasks of the personnel being supervised, developing and expanding the technology base of the branch, developing and expanding the product base of the branch, personnel management for the branch, and application of the

NWC Demonstration Project. **Job relevant criteria:** Knowledge of electromagnetic fundamentals and techniques for RF and antenna analysis; ability to develop and use computer solutions to complex RF problems is desired; understanding of measurement methods and techniques used for RF problems is desired; knowledge of measurement methods and techniques used for RF components, antennas, and electromagnetic scattering is desired; ability to interface with and make presentations to NWC management and sponsors; ability to communicate well, both orally and in writing; ability to deal effectively with people; understanding of NWC personnel policies and procedures; knowledge of affirmative action including a willingness to implement EEO policies and goals. Must serve one year supervisory probationary period if not previously completed. Promotion potential to DP-4, but not guaranteed. Previous applicants need not reapply.

No. 39-046, Supervisory Interdisciplinary (General/Mechanical/Electronics/Electrical/Aerospace Engineer/Physicist/Mathematician/Operations Research Analyst), DP-810/830/850/855/861/1301/1515/1520-3/4, Code 3903 - This position is Head, Weapons Analysis Office, Intercept Weapons Department. Functions of the office include assessing changing threats and operational environments for impact on weapons programs; assessing department programs and plans for consonance with current and near-term fleet weapon needs, projected operational requirements, and Navy and OSD plans and programs; and conducting selected in-depth studies in conjunction with other departments to identify and define new weapons concepts and new technologies that offer solutions to current and future weapon requirements. **Job relevant criteria:** Knowledge of Naval weapon systems and requirements; ability to influence and motivate others; ability to plan, organize, coordinate, and manage technical projects; understanding of NWC personnel policies and procedures; knowledge of affirmative action including a willingness to implement EEO policies and goals. Must serve one year supervisory probationary period if not previously com-

pleted. The incumbent must be able to obtain and maintain a Top Secret clearance. Promotion potential to DP-4, but not guaranteed.

No. 39-047, Supervisory Interdisciplinary (Electronics/General/Aerospace/Mechanical Engineer/Physicist/Mathematician), DP-855/801/861/830/1310/1520-3/4, Code 3954 - This position is head, Radio Frequency Systems Branch, Radio Frequency division, Intercept Weapons Department. The branch is responsible for design and analysis of RF systems for air-launched weapons. The incumbent's duties will include directing and participating in technical tasks of the personnel being supervised, developing and expanding the technology base of the branch, developing and expanding the product base of the branch, personnel management for the branch, and application of the NWC Demonstration Project. **Job relevant criteria:** Knowledge of transmitters, receivers, signal processing and/or RF guidance systems is desired; knowledge of RF systems and subsystems, radar seekers and electronic counter-countermeasures techniques is desired; ability to interface with and make presentations to NWC management and sponsors; ability to communicate well, both orally and in writing; ability to deal effectively with people; understanding of NWC personnel policies and procedures; knowledge of affirmative action including a willingness to implement EEO policies and goals. Must serve one year supervisory probationary period if not previously completed. Promotion potential to DP-4, but not guaranteed.

No. 39-049, Mail/File Clerk, DG-305-1/2, Code 3902 - This position is open to current 03 employees only. This position is located in the Intercept Weapons Department mailroom. The incumbent receives, sorts and routes all official mail for the department; picks up and processes all unclassified and confidential messages; acts as backup CCP; maintains the department file of serialized letters; operates and performs daily maintenance on copier machine and telecopier. **Job relevant criteria:** Ability to

(Continued on Page 15)

Energy project gains leader

(Continued from Page 5)

hit water at 200 feet and at 2,000 feet they were still in water."

Monastero emphasizes the geothermal program benefits from its broad based support. It is because of local enthusiasm and support from the people on the Center the geothermal plant continues to prosper and grow. Those working in the program office appreciate the unending endorsement from China Lak-

...the geologist loves the desert. "I must have been reincarnated from someone out here."

Monastero believes geothermal energy is not the answer to all the questions and problems regarding energy. "No one should believe it will take them out from under the heavy cloud of oil dependence. If all the geothermal energy in the western United States were developed, we'd still only produce 10-15% of the total electricity needs of the west coast." He firmly believes nuclear power is the direction our nation is going to have to go and also thinks it can be operated safely. "The sooner people come to grips with nuclear energy, the sooner our country will break the strangle hold the Middle East has on us."

Originally born and raised near Valley Forge, Pennsylvania, the geologist loves the desert and is a westerner at heart. "I must have been reincarnated from somebody out here in the West, I have a good strong western feeling." An avid soccer enthusiast, Monastero coaches two NWC Youth Center teams his two sons Curtis, 8, and Andrew, 10, play on. His oldest son James is in the United States Navy stationed onboard USS Bagley, in San Diego, Calif. His wife, Jo Ann, is a contract specialist with Code 252.

(Continued on Page 15)

Long time employees hang it up

Sue Pryor of Code 261 will end a 45-year federal career with retirement on Dec. 31. A farewell is set for Thursday, Dec. 6 at John's Pizza. Starting time is 5 p.m. Tickets are \$7 per person. For reservations, donations or presentations call Tracy Seleska at NWC ext. 3240 or Sharon Smith at NWC ext. 2382.

Gary B. Bailey of Code 611 will be honored with a retirement dinner tonight (Friday) at the China Lake Golf Course Clubhouse. The party starts at 5 p.m. with dinner at 6 p.m. and presentations at 8:30. Tickets are \$12.50 per person. For reservations or gift donations call Ria or Sherri at NWC ext. 5464 or 5037.

Emanuel (Manny) Dunn of Code 62203 is retiring after 30 years of service at the Naval Weapons Center. He will be honored at a no-host cocktail party tomorrow (Saturday), 6 p.m. at El Charro Avitia. For reservations or contributions call Sandi Jennings at NWC ext. 6811 or Ann at NWC ext. 6033.

Bill Stringham of Code 3452 will retire today (Friday) after 32 years federal service. A retirement luncheon in his honor is set for Wednesday, December 12, 11:30 a.m. at El Charro Avitia. For reservations, presentations or gift contributions call Rose Lathrop at NWC ext. 1100 by Dec. 10.

DRMO readies surplus goods sale for Dec. 12

Local Auction 41-1113 of surplus government property will be held by the Defense Reutilization and Marketing Office at China Lake on Wednesday, Dec. 12. The auction begins at 9 a.m. in Building 1073, Warehouse 41, the public is encourage to bid.

Among the 266 items to be offered will be generator sets, Graflex cameras, lens and shutters, electrical and electronic equipment, Ford tractor, PCs and accessories, printers, hardware, arc welders, optical comparator, torque tester, hydraulic press, band saw, shears, meat slicer, food chopper, 45 ton Lorain crane boom, sewer cleaner, cast iron pipe, tires, trailers, jet engines and trucks.

Items will be on display for inspection from 8 a.m. to 2:30 p.m. daily, except weekends, beginning Friday, Dec. 7. A complete list, as well as sale terms

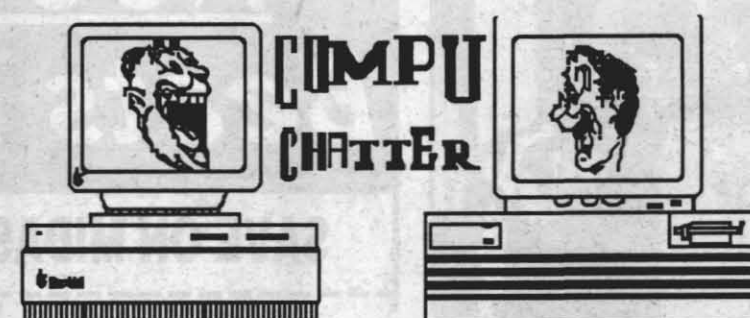
and conditions, can be seen at Building 1073, Warehouse 41.

Registration begins at 7:30 a.m. on the day of the sale. Bidders must be present and registered to bid.

Mailed bids cannot be accepted. Items purchased may be removed on the sale date provided full payment is made. Payment must be in cash or guaranteed instrument (cashier's check, money order, traveler's check, etc.). Purchasers have until Dec. 19 to pay and remove items.

Because the Defense Reutilization and Marketing Office is located within the Naval Weapons Center's interior security fence line, prospective bidders without an NWC pass must stop at the Main Gate Visitor's Center and obtain a pass before coming on-board.

For further details, call Phyllis at NWC ext. 2502/2538.



Sponsored By: PC Lab, Code 2741 NWC ext. 6631

Don't miss this Printer Demo!

Next Tuesday, Dec. 4, there will be a printer demo in the PC Lab. The LaserMaster 1000 and LaserMax system capabilities will each be demonstrated in one hour sessions. These printers are not your average laser printers. The machines produce typeset quality images that are clearly a cut above the capability of most laser printers.

There will be demonstrations with both Mac and IBM PC application software. To personalize the demos a bit, you are invited to bring a disk containing a file you'd like to see printed with you. This way you can compare the output of these printers utilizing your own data. There will be a factory rep from LaserMaster Corp. on hand to answer questions and assist with the demonstrations. If you plan on bringing your own file to print, call the PC Lab in advance to see if the application for your file will be available at the demo.

The LaserMaster will be demo'd with an IBM PC at 9 a.m., 1 and 3 p.m. And the LaserMax will be demo'd with the Mac at 10 a.m. and 2 p.m. I'm not going to try to quote the specifications and supported software applications because the list is just too long. Come to one of the demos and check out these printers for yourself. Oh, if you can't make it to a Mac session that you need, come to a PC session, or vice versa; there will be plenty of opportunity to ask questions at the end of each session. And for those of you who would like to use the printers on your own, sometime; the Laser Master and LaserMax will be available for you to use in the PC Lab until Dec. 14.

By Bob Beane

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New Navy Exchange officer foresees positive changes to military shopping

Improving customer service and increasing the line of merchandise the store carries are two main goals of Ensign Michael E. Corsey, the new officer-in-charge at the Navy Exchange, Naval Weapons Center. Since coming onboard a few months ago, the ensign has already brought in several new lines of merchandise and instigated several customer-oriented promotions, including free gifts with purchase of certain products.

"I want to make this the best store in the region," the officer-in-charge said. "I think we can do that by instilling a sense of pride and loyalty in the employees and bringing in different types of merchandise. We have to do our own marketing because what the people in San Diego or Long Beach want could be different than what the people want here."

Ensign Corsey noted a common complaint was sometimes NEX flyers, which are distributed from San Diego and Long Beach, would advertise items the local store doesn't carry. "I'm trying to change that," the officer-in-charge said. "However, if a customer wants something that has been advertised in an NEX flyer, an order for it can be placed in our Customer Service Department. The customer should receive the item within a week."

Originally from Clovis, New Mexico, Ensign Corsey enlisted in the Navy in 1980 as a data systems technician. After attending a variety of schools, he was assigned to the *USS Nimitz*. After a seven-month deployment in the Mediterranean, he applied and was accepted for Broadened Opportunity for Officers Selection Training (BOOST). After BOOST school, he went to Texas Tech for ROTC. "I was the first midshipman to attend Texas

Tech," Ensign Corsey said. He graduated after four years with a bachelor's degree in business

said. "I wanted to do something where I could use my degree and still be able to work with the cus-



OPTIMISM SHINES -- Ensign Michael E. Corsey, the new officer-in-charge at the Navy Exchange, Naval Weapons Center, optimistically views his job as a challenge to meet the growing needs of his customers.

Photo by PH3 Cary Brady

administration management information systems.

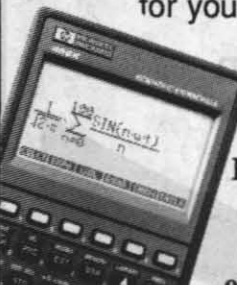
After a series of injuries, he was commissioned in February 1990 and accepted in the Supply Corps. He attend the Navy Supply Course in Athens, Georgia and was then assigned to China Lake.

"I asked to be assigned to China Lake because I wanted the challenge of the job," the ensign

tomers." China Lake's small town atmosphere also influenced his decision in working at NWC. "I heard this was a good place to raise children," he explained. He and his wife, Lisa, have one daughter, Tiffany, and expect another child in the near future.

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Holiday specials for the month of December

Don't miss **Holiday Specials** for the month of December. On December 8 and 9 tickets for Disneyland's Christmas Special will be an incredible \$18.25 for both adults and children. Sea World is offering a Holiday Special on December 15th for a mere \$10.50 per person. Universal Studios is running a military special from now until December 23rd where all tickets for military personnel will run \$14 for admission. For more information call the ITT office at NWC ext. 3252.

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Westbrook wins the turkey

Two hundred twenty-three racers compete in OTHTC event

Paula Westbrook's handicap time of -9:06 in the Over-the-Hill-Track Club's annual Turkey Trot race on Thanksgiving Day resulted in a first place finish and a gift certificate for a large turkey from Stater Brothers. Second place, with a prize of a gift certificate for a small turkey from Stater Brothers, went to Craig Tullio, who had a handicap time of -8:59. The rubber chicken, given each year for the fastest time, went to Brian Ogilvie who finished the race with a clock time of 17:20.

A total of 223 entrants, including six dogs, took part in this year's race. Participants included men, women and children from 4 years of age to over 60 years olds.

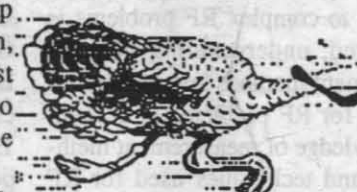
The slightly hilly 3-mile race ran under a "blind

handicap" system, in which the runners drew a handicap after finishing the run. The handicap was then subtracted from the runner's clock time to get the handicap time, giving all finishers an equal chance of winning.

The top fifty finishers all managed to draw handicaps good enough to give negative finishing times.

Lorraine Sylvia, finishing with a time of -8:29, and Bob Westbrook, who clocked in at -7:18, went home with gift certificates from Cornelius' Shoe Store. Times of -7:00 and -6:30 earned Stephanie

Kinhead and Erin Ross gift certificates from Sports Oasis. The other 44 top finishers received hats, t-shirts, tote bags, medals, kazooos and pinky rings.



Brochure offers pheasant hunting tips

Copies of a new brochure identifying 33 Department of Fish and Game wildlife areas and U.S. Fish and Wildlife Service wildlife refuges offering wild pheasant hunting opportunities are now available at DFG headquarters and regional offices.

"A Guide to State and Federal Pheasant Hunting Areas of California" fits a standard pocket size, making it convenient for hunters to carry the publication with them. The brochure is free and may be obtained by visiting or calling DFG offices.

The guide updates similar DFG publications. It depicts a cluster of state and federal pheasant hunting areas in the Sacramento and San Joaquin valleys and includes locations as far north as the California-Oregon state line in Siskiyou County and as far south as Imperial County.

In addition, the brochure contains helpful information about hunting pheasants, handling firearms and lists addresses and telephone numbers of DFG regional offices around California.

Lake Isabella fishing is year-round affair

General trout season is over in California, but in a few areas, including Lake Isabella and the Kern River, fishing season is a year-round affair. With the Department of Fish and Game still stocking the lake and river, trout anglers can bring home five-fish limits if they are willing to work at it.

According to the French Creek Marina, anglers are taking trout near Ramp 16, the Main Dam and French Gulch. The fish average more than a pound each.

Salmon eggs, power bait or nightcrawlers with marshmallows are preferred baits on the lake.

On the river, trout are being taken on salmon eggs, power bait or small spinners. The river is open from the Tulare County line to the lake.

Also at Lake Isabella, anglers find it easy to land catfish. The fish are in 30-40 feet of water and will take clams, mackerel or anchovies. There is no action for bass, crappie or bluegills at this time.



Red Cross offers some safety tips

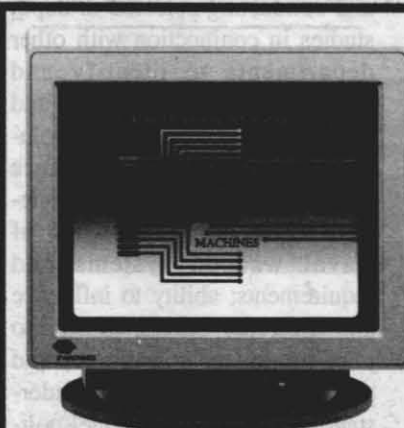
The following safety tips have been provided by the American Red Cross. When doing outside activities, take care, the life you save may be your own.

When hiking, carry a first aid kit, folding knife, candles and waterproof matches.

When canoeing, wear a properly fitted life jacket. Only canoe if you know how to swim. If you capsize, hang on to the canoe -- it is your best flotation device.

Using alcohol or drugs when swimming can make your reaction time lower than normal. You may not be able to make quick decisions in a water emergency. Swim safely. Don't use alcohol or drugs when involved in water activities.

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E-Machines T16 displays a full page including the margins. Continually rated as the best color monitor on the market (Eddy, Five Mice, "Still Champion", "sweeps the field"), the T16 is on sale: List \$2,995, now

only \$2,489

Don't be left out!

Ski equipment is available at Gymnasium Gear Issue Office

Ski season has started and the Morale, Welfare & Recreation Division staff would like this season to be the best one ever! China Lakers are invited to enjoy the powder with downhill and cross country skis provided by the Gymnasium Gear Issue Office. Skis, poles, boots and even a ski rack can be rented at nominal fees.



To insure proper fit, ski fitting appointments may be made Monday through Thursday from 8 a.m. to 4 p.m. Appointments should be made 3 to 5 days in advance of the ski trip.

There is a standard \$20 deposit for skis, poles and boots, and a \$25 deposit for ski racks. Rental fees for retired military personnel are at the rate they retired. Rate breakdown for skis, poles and boots is as follows:

E1-3 -- \$5 daily, \$10 per weekend and \$25 per week (7 days).
E4-6 -- \$6 daily, \$15 per weekend and \$32 per week.
E7-9 -- \$7.50 daily, \$18 per weekend and \$43 per week.
Warrant Officer -- \$8 daily, \$19 per weekend and \$44 per week.
O1-3 -- same as warrant officer.
O4-5 -- \$8.50 daily, 20 per weekend and \$45 per week.
O6 & above, SES -- \$12 daily, \$24 per weekend and \$66 per week.
DoD -- \$10 daily, \$22 per weekend and \$60 per week.
Rate breakdown for ski rack rentals is as follows:
Military -- FREE.
O6 & up, SES -- \$3 daily, \$5 per weekend and \$9 per week.
DoD -- \$2 daily, \$3 per weekend and \$7.50 per week.
For more information, or to make a ski fitting appointment, call NWC ext. 6542.

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