

## Just two final shows for Randsburg Opera House remain on tap this season

Back by popular demand, the Randsburg Players have scheduled two special performances of "Lily, the Felon's Daughter." Friday and Saturday, Aug. 25-26, are absolutely the last two chances you have to see this spectacular show at the Randsburg Opera House. Make your reservations now for \$19 each for a sumptuous dinner buffet and an opportunity to boo, hiss, and throw popcorn at the villain. Come and give encouragement and support to the heroine, or, if you prefer, cheer for the evil villain of the show. Call 375-9589 now for information and tickets. All seats reserved.

# ROYAL BACK-TO-SCHOOL SALE.



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In the next ad, you get to play the horse.

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Register to win a Medieval Times prize package for four. One winner per store! Drawing held Wed., Aug. 23.

WIN a Personal Computer

Register to win an Apple® IIC Plus Personal Computer from Boston Stores and Hush Puppies. Drawing held Wed., Aug. 23.

WIN a \$10,000 Scholarship from Hush Puppies

Pick up a free mail-in entry form for a chance to win a \$10,000 scholarship in the Hush Puppies \$200,000 National College Scholarship Sweepstakes. Some restrictions apply. See stores for details.

WIN in Daily Giveaways, August 14-23

Register to win prizes from our regular Back-to-School merchandise.

Arizona Medieval Times Promotion accommodation and transportation courtesy of



EXECUTIVE LIMOUSINE SERVICE

TCP 3984

No purchase necessary. Winners must be 18 or over.

## Super Savings on Back-to-School Fashions.

**JUNIORS**  
Selected walk shorts from Palmetto's. Choose from solids, twill, acid wash denim and plaid in Fall colors. Sizes 3-13. Reg. \$26.-30. Sale 25% off.\*  
Spumoni tops. Novelty screen tops including long sleeve tees and sweatshirts. Sizes S-M-L. Reg. \$22.-32. Sale 25% off.\*  
Selected tops including woven shirts and knit tops in basic and novelty styles. Sizes S-M-L. Orig. \$18.-26. Sale 33% off.\*  
Selected sweaters in a variety of colors. Sizes S-M-L. Orig. \$20.-38. Sale 33% off.\*  
Selected knit pants. Choose from an assortment of many styles and colors. Sizes S-M-L. Reg. \$18.-30. Sale 40% off.\*  
Fleece, zip front jumpsuits in a variety of solid colors. Sizes S-M-L. Reg. \$30. Sale 40% off.\*  
Selected acid wash denim jeans. Sizes 3-13. Reg. \$36.-38. Sale 33% off.\*  
Olga Scoops panties. Buy 2 and save 25% off.  
Olga foundations. Sale 33% off.  
Buy 2 and Olga will make it 3! Purchase any 2 selected styles of Olga foundations, and Olga will send you a third one free. Sleepshirts. Orig. to \$24. Sale 40% off.

Entire stock of socks. Sale 33% off.\*  
Entire stock of scarves. Sale 40% off.\*  
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**YOUNG MEN**  
Entire stock of PCH coordinated separates. Sizes S-XL. Values \$26.-32. Everyday low prices \$19.47-23.97.  
Entire stock of Bugle Boy fashion separates. Sizes S-XL. Values \$22.-42. Everyday low prices \$16.47-31.47.  
Body Glove tee shirts in assorted prints. Sizes S-XL. Reg. \$14. Sale 25% off.\*  
Fashion tops by Blox. Choose from knits and wovens in sizes S-XL. Reg. \$20.-25. Sale 30% off.\*  
Entire stock of Morey Boogie tee shirts and shorts. Sizes S-XL. Reg. \$12.-22. Sale 25% off.  
**CHILDREN**  
Entire stock of OshKosh durable playwear. Infant, Toddler, Girls' sizes 4-6x and Boys' sizes 4-7. Values \$10.50-43.00. Everyday low prices \$7.47-31.47.  
Entire stock of Buster Brown sportswear and dresses. Infant, Toddler, Girls' sizes 4-14 and Boys' sizes 4-7. Values \$9.-26. Everyday low prices \$6.47-19.47.

Entire stock of Boys' PCH coordinating separates. Sizes 4-14. Values \$23.-26. Everyday low prices \$16.97-19.47.  
Entire stock of Bugle Boy fashion separates. Boys' sizes 4-14. Values \$18.-35. Everyday low prices \$13.47-25.97.  
Hush Puppies fleece separates for Boys. Choose from coordinating tops and bottoms in sizes 4-7. Reg. \$9. Sale 25% off.\*  
Boys' short sleeve woven shirts. Choose from an assortment of prints and colors. Sizes 4-16. Reg. \$12.-15. Sale 25% off.\*  
Bugle Boy socks for Boys. Sizes 6-11. Reg. \$4.50-5.50. Sale 25% off.\*  
Entire stock of Buster Brown socks. Reg. \$2.25-3.99. Sale 25% off.\*  
Entire stock of slips and panties by Her Majesty. Girls' sizes Infant through 14. Reg. \$2.-15. Sale 25% off.\*  
Fashion hair accessories and fun jewelry from Rosecraft. Reg. \$1.-8. Sale 25% off.\*  
Entire stock of Trifit socks and lights. Girls' sizes Infant through 6x. Reg. \$2.25-6.50. Sale 25% off.\*  
\*Discount taken at register.  
Some items not available in some stores. Intermediate markdowns have been taken.  
Back-to-School promotions not available in Hemet location.

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WHITTIER  
(213) 947-2891

# NWC Rocketeer

Naval Weapons Center, China Lake, California 93555-6001

Vol. XLIV, No. 33/August 18, 1989

## Low Cost Seeker transition a first at NWC

Partnership of the Navy and industry is taking on a new dimension as evidenced by the recent transition of responsibility for HARM (High-Speed Anti-Radiation Missile) Low Cost Seeker (HLCS) software development from NWC to Ford Aerospace.

"To my knowledge, this is the first time we have transitioned a project in the middle of the Full Scale Engineering Development (FSED) phase from the Center to the contractor," said Mike Schmitt, deputy technical manager (HLCS). "Instead of

having the contractor assume responsibility from the beginning of the phase, we retained the initial leadership because the expertise on this critical project resided at NWC.

"As we proceeded, we trained Ford Aerospace personnel," said Schmitt. "After the successful critical design review held several weeks ago with NAVAIR, both NWC and Ford feel confident this transition technique was the correct method."

NWC will continue to monitor Ford's

technical performance throughout the remainder of the FSED phase and will perform test and evaluation on contractor products. FSED is expected to be concluded in late 1990 following further evaluations of the NWC-designed/Ford-built HLCS. Limited production will begin after the next milestone evaluation.

The HARM LCS was approved for the FSED phase in January 1988 and Naval Air Systems Command (NAVAIR) contracted with Ford Aerospace Corp. the following month.

A joint Navy, USAF project, LCS provides more capability at much less cost for HARM, the primary U.S. anti-radar/defense suppression weapon. The prototype production model successfully completed critical design review in January.

"Many people at Ford Aerospace and at NWC worked long hours to ensure the successful conclusion of the review," said Schmitt. "For the LCS, this technique should contribute to total quality management approach for this vital project."

## Inventors reap patent benefits

Three NWC inventors received \$6500 in royalties for two license agreements entered into on two patents relating to chemiluminescent systems last Friday.

Ronald A. Henry, Joseph H. Johnson and Herbert Richter are the first NWC inventors to participate in the transfer of government technology to the commercial market. Capt. Doug Cook, commander, NWC; Gerry Schiefer, NWC technical director; and John Unpingco, NWC Counsel, participated in the award ceremony and bestowed outsized checks and plaques bearing the U.S. Patent Office's official patent to the inventors.

Richter explained that "today's success can be attributed to a team effort. A number of China Lakers worked on this project, including several who conducted tests in sub-Arctic conditions. The NWC Legal Staff has been aggressive and persistent in paving new ground and the Marine Corps also assisted many of our tests."

Chemiluminescence is the process by which two chemicals mix to produce light. The Navy uses this system as emergency lighting for life rafts and on ships for damage control parties. Commercially, these lightsticks are being sold as novelties; they are often seen as small green tubes at ballgames and amusement parks at dusk.

Police departments are also using them for emergency lighting, miners are using them for safety lighting and the deep sea fishing industry is using them as lures.

Under the Stevenson-Wylder Technology Transfer Act of 1986, the inventors and NWC will receive monetary awards for the technology transfer. The act allows the government to commercially license its patents and technology to industry for a reasonable royalty. Twenty percent of the royalty goes directly to the inventors. A maximum sum of \$100,000 per year per patent license may be received by government inventors.

The remaining eighty percent is to be used by the government laboratory for internal research and development.

The two NWC patents licensed were issued in December 1986 and April 1987. A patent grants a monopoly to produce or use an invention for a period of 17 years. So, royalty checks will be coming to the inventors and to NWC until 2003 and 2004.

The license agreements are with American Cyanamid Corporation and with Chemical Devise Corporation, both of whom produce the lightsticks. In addition to an upfront payment for signing these agreements, the companies will be paying an ongoing royalty of 2.75% and 2.5% respectively from these companies on the net (Continued on Page 6)



**PASSING THE DISK--A computer disk replaces the baton as the NWC team passes on the LCS software development responsibility to Ford Aerospace.** Starting from far left, the Ford Aerospace team of Ruthann Sutton, Walt Otto, Kimberly Perry, Bob Fischer, Steven Moh, Jim Dossi, Paul Bauer and Bill Hughes take on their new responsibilities from Chuck Bankston, Michael Schmitt, Greg Lundin, John Seybold, and Dan Wright. Not available, Ann Ruff.

## Retirement brings honors

In recognition of his many contributions to the Naval Weapons Center and the Navy, Capt. Douglas Cook, NWC Commander, recently presented the Navy Meritorious Civilian Service Award to Duane H. Williams, former head, Energetic Materials Division, Ordnance Systems Dept.

"It is with great pleasure that I present you with the highest honor I am able to bestow..." said Capt. Cook on behalf of Capt. John Burt, former NWC Commander, at the award winner's retirement party. "Because of your knowledge and leadership in the (Continued on Page 6)

## Skill makes big difference

Skill and enthusiasm were key ingredients in Mike Hasting's approach to a request for assistance from the Commander, Naval Air Force, Pacific Fleet. That competent approach allowed for a solution of a persistent problem and a Technical Director's Award for this member of the Polymer Science Branch.

Currently, carbonate salt mate-

rial builds up in the pipes of waste treatment systems on board ships. The removal of this build up costs the Navy millions of dollars a year in maintenance costs. Hasting's work has led to an effective, safe and environmentally sound solution to this problem.

He has developed a slow dissolving, time release solution

using citric acid in a briquette shape. This medium will prevent carbonate salt buildup and is superior to the current medium of sulfamic acid powder. A successful preliminary test led to a contract for the manufacture of 15,000 one pound briquettes. Shaped like a hockey puck, these briquettes will be used in the (Continued on Page 7)



## Wellness Corner



Many NWC employees have been told to lower their serum cholesterol levels. Recent evidence suggests that substituting polyunsaturated fats (PUFA) for saturated fats can lower total serum cholesterol. New evidence indicates that, although PUFAs will lower total serum cholesterol levels, high density lipoproteins (HDL) levels are also decreased.

Because of the cardiac risk ratio, total cholesterol/HDL may be adversely affected, therefore, the incorporation of monosaturated fats (MUFA) into one's diet may be desirable. MUFAs, such as those contained in olive oil, can lower serum cholesterol without sacrificing HDLs. Below is a list of common edible and cooking fats and oils with compositional information.

Remember, the key word here is substitution, not addition. Fats should only make up approximately 20-30% of one's daily caloric intake. Also, because PUFAs contain the essential fatty acid, linoleic (being it must be supplied to your body, you can not make it), some PUFAs should be included in your diet.

DIETARY FAT	CHOLESTEROL MG/TBSP	SATURATED FAT(%)	PUFAS (%)	MUFAS (%)
CANOLA OIL (PURITAN)	0	6	32	62
SAFFLOWER OIL	0	10	77	13
SUNFLOWER OIL	0	11	69	20
CORN OIL	0	13	62	25
OLIVE OIL	0	14	9	77
SOYBEAN OIL	0	15	61	24
MARGARINE	0	17	34	49
PEANUT OIL	0	18	33	49

### Challenge remains open at Center

Oct. 21 marks the debut date of *The China Lake Challenge*. This inter-departmental competition is based upon The Sagebrush Games of Tri-Cities, Washington and the Akron, Ohio YMCA Corporate Challenge. Departments will be in categories based upon size, so that departments will be competing against departments of comparable size. The emphasis is on participating in, not just on winning, one of the many events.

Every person who participates will be awarded participation points that go towards their department. Family members can also participate. Some of the events include dashes, a softball tournament, a volleyball tournament, obstacle course, softball throw, jump rope, tug a war, hackey sack, special events for the kids, horse shoe toss and relays. Time predicted events, such as an 8-mile, time-predicted bicycle ride, will also be included. Many departments have already chosen an event to sponsor.

### New under secretary announced

NNS--President George Bush nominated J. Daniel Howard to become the new Under Secretary of the Navy, July 31. He is expected to be confirmed by the Senate on Aug. 4 and sworn into office the week of Aug. 7.

Howard would succeed Secre-

tary of the Navy H. Lawrence Garrett III who held the Under Secretary post prior to his current office.

Howard previously served as the Assistant Secretary of Defense for Public Affairs from February 1988 to May 1989.

## Project effort brings rewards

*Dr. Richard Hollins receives NWC Commander's Award recognition*

Successful stewardship of the rehabilitation of the Chemistry Division's laboratories brought recognition to Dr. Richard A. Hollins, head, Energetic Materials Branch. Capt. John Burt, former NWC Commander, presented Hollins with the Commander's Award for Excellence in Mission Support during the ribbon cutting ceremony heralding the completion of the rehabilitation project.

"This award recognizes your efforts in coordinating this project and seeing the project through from its inception in 1980 to its successful conclusion in May of 1989," said Capt. Burt.

Dr. Ronald Derr, head, Research Dept., noted in his

nominating letter that Hollins readily assumed the collateral duty to develop the plans for the Chemistry Division's extensive rehabilitation project; surveyed all division personnel to assess the requirements for the project; and worked hand-in-hand with the architectural and engineering firm chosen to draw up plans for the rehabilitation project, insuring that the division's needs would be met.

"While performing this collateral duty, he (Hollins) maintained a very productive individual research effort, as well as performing his other branch head duties in an exemplary fashion," Derr wrote in the nominating let-

ter. "Dr. Hollins' efforts have resulted in an aging archaic facility being transformed into a modern and efficient laboratory. These new facilities will insure that the division will have excellent research laboratories for years to come," Derr concluded.


Capt. Burt added, "Your contribution is an outstanding example of technical competence and commitment to serving the Naval Weapons Center.... Your efforts have made it possible for your division to continue working at the leading edge of research and development, and to continue to serve the Center in the years to come."



**WORK RECOGNIZED--Efforts contributing to the completion of the new Chemistry Wing were honored recently when Dr. Richard Hollins received the Commander's Award from Capt. John Burt, former NWC Commander. Joining in the congratulations are (l to r) Dr. Ronald Atkins, head, Chemistry Division; Dr. Hollins' wife, Judy; and Dr. Ron Derr, head, Research Department.**

**NWC Rocketeer**

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**Public Affairs Officer - BEN DUFFY** Editorial Assistant - **PEGGY SHOAF**  
 Photographer - **PHAN CARY K. BRADY**

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Ads up to 20 lines.....	\$10.00
Ads over 20 lines.....	\$10.00 & \$1.00 per line over 20 lines.

CLASSIFICATIONS	
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**

### 20 RENTALS

IDEAL FOR 2 SINGLES, 2BR, 2BA. Stove, refrig., dishwasher & W/D hook-up. Carpeted, blinds, water & trash paid. Secluded patio. No yard maint. \$430 mo. 1st, last & \$125 Sec. Dep. For info and application call 375-40076. Available 1 September.

KERNVILLE-2BR OVERLOOKS TOWN. 5 min. walk to river park. \$600. 446-3118.

### 30 SERVICES

FIREWOOD - Almond, Apple, Pine & Fir. 377-4465. Wilhorn & Sons Firewood Sales.

### 35 AUTOMOTIVE

1984 CHEVY S10 BALZER. \$6,900. 377-5876.

1985 TOYOTA SR-5 4WD P/U. Long-bed with EFI; includes camper shell, frame-type trailer hitch & wiring. Warn 4800 lb. capacity winch & accessory kit, front & side brush guard, special chrome wheels; has new brakes, new tires, new rancho rs-5000 shocks & new windshield. \$8000 OBO. 375-2905 & leave message.

1986 YAMAHA BW80S - Children outgrow - MUST SELL! \$400. 446-4251.

1968 TRAVEL MATE - Sleeps 4. Very comfortable. \$500 446-4251.

### 40 MISC. FOR SALE

CAMPER SHELL - fits Chevy S10 pick-up, short bed. 446-7044.

### 40 MISC. FOR SALE

ADVANCED SPANISH COURSE. Text workbooks and cassettes, \$100. Beginning Japanese course textbooks and cassettes, \$50. 446-3118.

COMMODORE 64 KEYBOARD, 1541 DISC DRIVE, DATASSETTE, ROYAL LETTER MASTER PRINTER, MANUALS, LOTS OF SOFTWARE, \$800 OBO. SONY 11" B&W TV, \$10.00 OBO. ATARI 2600 (new version) & 9 games, \$100.00 OBO. 2 AQUARIUMS (5 & 10 gal.) WITH EVERYTHING BUT FISH, \$20 FOR BOTH. VIBRATING MASSAGE BELT FOR WEIGHT LOSS, \$15.00 OBO. "EASYGLIDER" SKIING EXERCISER, LIKE NEW, \$45.00 OBO. 446-4751 AFTER 4.

DIVORCE SALE - EVERYTHING MUST GO! 727 E. Ridgecrest Blvd. #B, 375-2615.

ELECTRONICS COURSE, II VOLUMES, 25IN HEAT KIT TV, test equm. \$200. 446-3118.

FULL-SIZE BED, BABY SWING & CARRIER. 377-5876.

GE "POTSCRUBBER 600" DISH-WASHER - 1 year warranty parts and labor. 10 year warranty on tub and door liner. Won in contest - don't need - "BEST OFFER" - call 375-7580.

KENWOOD K-32 stereo with turntable, cassette deck, integrated amplified and case, 2 BOSE bookshelf speakers \$325 OBO. 446-3198.

SOFA - Brown/Beige Plaid, very good condition. Great for the Rec. room or households w/kids. \$95. 446-4712.

### 40 MISC. FOR SALE

REDWOOD PICNIC TABLE with benches. 2 lawn chairs; loveseat with cushions - \$45. 446-5810. COMPOUND BOW; 70 lb. drum, fully loaded, \$300 firm. 446-5810.

### 45 GARAGE SALES

GARAGE SALE - SAT. 9 AM - 1 PM, 1912 BLUERIDGE.

### 50 PETS & SUPPLIES

FOR SALE: QUARTERHORSE (Shiloh) for sale - owners relocating. \$900 - sale price includes saddle and tack. Call 446-6376.

### 55 REAL ESTATE

1987 24x48 MOBILE HOME on 2.5 acres. 3BR, 2BA, cathedral ceilings, fireplace, fenced yard. \$61,900. 377-5876.

4 BR, 2 BA, 2 CAR GARAGE, 6560 Valley, Inyokern. 10 min. to NWC main gate. \$60,000. \$5,000 down, O.W.C. OR LEASE OPTION. 446-6487 EVES.

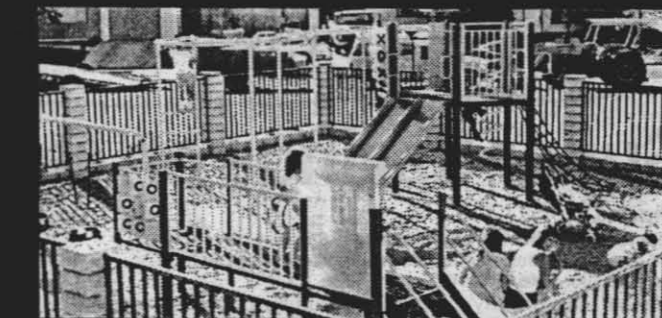
RENT FREE, 1BR, 1BA apt, refundable investment of \$10,000 buys lifetime use. Call 375-5060, 375-9124.

**Too much junk HANGING around the house? ROCKETEER classifieds will help turn those unwanted items into cash - call 375-4481**

### 55 REAL ESTATE

### 55 REAL ESTATE

## PROSPECT PARK VILLAGE



Tot lots with Jungle Gyms

## GRAND OPENING - Phase II 2, 3 & 4 Bedroom - \$440 & up

- Pool & Jacuzzi
- Refrigerators/Fireplaces (limited)
- Lighted Tennis Court
- Washer/Dryer Hookups and On-Site Laundrys
- Tot lots with Jungle Gyms
- Fenced Yards
- Covered Carports
- 4 Carpet Color Choices

**375-6543**

For Special Attention - Call Ahead for Appointment (next to Kern Regional Park & French Street)

**449 Toro Drive**



## Community Events

**Attention bowlers:** The Indian Wells Valley Association for Retarded Citizens is having its second annual All Star Bowling Tournament on Sat., Aug. 26 at Sierra Lanes from 1 to 4 p.m. The tournament will consist of five-person teams, with a \$100 team-entry fee. First prize is \$300, 2nd prize \$200, 3rd prize \$100. Raffle prizes and prize for most pledges for pins knocked down will be given away. Deadline for entry is Aug. 18 at 4 p.m. (Late entries will be accepted). Call Cathy or Vickie at 375-9787 for more information or to register a team.

Tomorrow is the closing date for many of the entries for the Desert Empire Fair, which will be held Sept. 6-10. Entries being sought are for the Home Arts Department, pie baking contest, clothing & textiles, preserved goods, arts & crafts, photography and lapidary & minerals.

Entries for the horse show are due on Aug. 25 and some flower entries still have until Aug. 31. Entries for Little Miss Desert Empire Fair must be in by Aug. 29. Check the DEF premium book for details. The premium books are available at the fairgrounds, Chamber of Commerce, library, arts & crafts stores, the Inyokern Country Feed Barn, the museum and various locations in the Lake Isabella and Kernville areas.

Entry fees must accompany all entries. For further information, call the fairgrounds at 375-8000.

By popular demand, the Randsburg Players have scheduled two special performances of "Lily, the Felon's Daughter," on Aug. 25 & 26. Set for the Randsburg Opera House, the dinner play is \$19. Call 375-9589 for information and tickets.

Come save at the WACOM Thrift Shop sale from Monday, Aug. 21, to Thursday, Aug. 24. Located just north of the NWC fire station, everything in the store will be reduced 50%. The shop is open Monday & Wednesdays from 8 a.m. to 11:30 a.m.; Tuesdays from 6:30 p.m. to 9 p.m.; and on Thursdays from 10:30 a.m. to 12:20 p.m. Proceeds from the shop are distributed to the CFC campaign, the Navy Relief Society and local non-profit organizations.

Western Days will be held at the Desert Empire Fairgrounds (Joshua Hall) on Saturday, Aug. 26. Meet the local rodeo participants at 6 p.m. and join in the raffle scheduled for 8 p.m. Deadline for local entries is 5 p.m. on Aug. 26. For more information, call Dan Smith at 377-5288 or Hap Ross at 375-4285.

## Museum members welcome art show

Maturango Museum's Art Gallery Committee is eagerly anticipating its annual December "Open Art Show." This exhibit is a way to participate in a professionally-displayed group exhibit. This year, the "Open Art Show" will display the works of museum members and will not be limited to any one particular theme.

Entries will be accepted at the museum, corner of Los Flores and China Lake Blvd., on Nov. 29 from 11 a.m. to 5 p.m. Only one item per artist may be entered and a \$5 entry fee will be required. A 20% commission will be charged on each sale, which will benefit museum programs. All works will be selected on a

space available, first come/first reviewed basis.

The show opens Dec. 1. A preview reception will be held the preceding night from 7-9 p.m.

For more information, contact the museum at 375-7141.



	Max	Min	Gusts
Thurs.	103	75	19 knots
Fri.	102	74	16 knots
Sat.	106	73	19 knots
Sun.	109	63	19 knots
Mon.	110	71	20 knots
Tues.	110	67	26 knots
Wed.	107	63	22 knots

## Volunteers play critical part in annual Telethon

Volunteers are needed for the local broadcast of the 1989 Jerry Lewis Labor Day Telethon to benefit the Muscular Dystrophy Association.

The 21 1/2-hour-entertainment spectacular will be aired on Channel 8 (Desert Cable TV) starting at 6 p.m. on Sept. 23 through 5 p.m. on Sept. 4 from the Kern County Fairgrounds in Bakersfield.

Volunteers play an important role in the Telethon's success," said Elsa Stevens, program coordinator. "Each year, they handle a variety of behind-the-scenes jobs, such as answering pledge phones and sorting pledge envelopes. The fantastic people of Kern County have always come through for us in the past, and I hope we can count on them this year."

Those interested in volunteering can call the MDA office at (805) 393-2161.

Money raised through the efforts of Telethon "Love Network" affiliates helps fund the important work being done by MDA-sponsored researchers to

find treatments and cures for muscle disease. One of the most promising experimental techniques now under investigation is "myoblast transfer therapy." This technique involves the injection of healthy immature muscle cells, called myoblasts, into diseased muscle in an effort to produce hybrid muscle cells that display healthy characteristics. The procedure has shown positive results in laboratory mice.

"The volunteers can take great pride in their contribution to this major research undertaking," said Stevens. "Scientists are closer than ever to developing a treatment or cure--if increased public support of MDA's work can be achieved."

The Association currently sponsors some 500 individual research projects worldwide. It also supports some 230 outpatient clinics nationwide, where people with any of the 40 muscle disorders covered by MDA programs receive medical care, orthopedic aids and related services.

## Students seeking contest victories

Students in grades seven through twelve are eligible to enter the Fleet Reserve Association's 1989-90 Americanism Essay Contest.

The theme for this year's contest is "What freedom of speech means to me." Deadline for entries is Feb. 1. Prizes range from a \$1000 savings bond to a \$75 savings bond.

Essays should not be more than 350 words in length, legibly printed or written in black ink or typewritten on one side of the paper. One entry is allowed per student.

For more information, write to: Chairman, FRA National Americanism-Patriotism Committee, 1303 New Hampshire Ave., N.W., Washington, D.C., 20036.

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 August 23, 1989  
 9:00am - 3:00pm

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**LOCAL RESIDENT GREETSS RUSSIAN PILOT--Lt. Scott McClellan, right, of Air Test and Evaluation Squadron Five, was recently on hand at Elmendorf AFB Alaska, for the historic arrival of the new Soviet AN 225 Condor transport aircraft which was escorted by two MIG-29's. Lt. McClellan, as the senior Naval officer aboard, greeted the aircrew as they stepped foot on American soil. The Soviet planes were enroute to an air show in British Columbia.**



## The Skipper Sez...

### Question

Just recently I received a memo regarding the Policies on Safety and Health here at NWC. It read: "The most valued resource of this Center is the employees and their safety and health is of utmost concern". I am glad to see this because I feel the health of all employees, especially of pregnant women, is at stake. I recently received information about the drinking fountains that we have in our workplace. When the fountains are unboxed, a warning notice is included that warns that the amount of lead coming from the fountain is dangerous for small children and pregnant women. I feel angry because when I was carrying my son, I drank several glasses of water a day from a drinking fountain in my office building and was never warned about the lead content. I want to know why this warning is not posted by each fountain. There are enough things to worry about while a woman is carrying a child, she does not need to be worrying about the water she is drinking.

### Answer

Thank you for bringing this to my attention. Lead poisoning has long been a concern, and the use of lead solder in water systems was stopped many years ago. We have not used lead solder on potable water systems on the Center for nearly ten years.

The use of lead solder in the manufacture of drinking fountains has not been a concern until very recently. While the possibility of drinking enough water to be harmful from a fountain constructed with lead solder is extremely slight, Navy policy has been to specify lead-free construction. To our knowledge, we have not installed any lead-bearing fountains in the recent past. It is possible we, or a contractor, have done so inadvertently. If you will contact me with the location of the fountain in question I can further determine how it was installed as well as have it removed and replaced with a lead-free fountain.

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

## General Colin Powell named to head Joint Chiefs of Staff

NNS--On Aug. 10, President George Bush named Army General Colin L. Powell to become chairman of the Joint Chiefs of Staff (JCS) when Adm. William J. Crowe Jr. retires Oct. 1.

At 52, Powell is one of the youngest four-star generals in American peacetime history and, if confirmed by the Senate for Chairman Post, will become the first black officer to hold the nation's highest military post.

As chairman of the Joint Chiefs, Powell's most important role will be chief military advisor to the President. He will also serve as principal military advisor to the National Security Council and the Secretary of Defense.

Powell started his military career 31 years ago when he was commissioned a second lieutenant in 1958. He served two tours in Vietnam.

He was chief aide to then Secretary of Defense Caspar W. Weinberger from 1983-1986, commanded the army's fifth corps in western Europe for six months, then returned to Washington to serve as President Reagan's national security advisor. The general is currently commander of the Army Forces Command, which oversees all troops stationed in the continental United States.



**THREE MORE YEARS OF SERVICE--is pledged by AZ3 Michele Walraven in a recent reenlistment ceremony at the Master at Arms office. Lt. Honor Rosar served as the reenlisting officer. Photo by PHAN Cary Brady.**



**TIME TO RE-UP--AME3 Deborah Clark reenlists in the U.S. Navy for six more years at a reenlistment ceremony at the Seafarer Club on Aug. 1. Serving as reenlistment officer is Ensign Richard Chapman. Photo by PHAN Cary Brady.**



## Save money while you help local charities, too

Starting Aug. 21 and running through the 24th, the WACOM Thrift Shop is having a sale! There will be 50 percent off on all merchandise in the shop. Be sure to come in and take advantage of the great savings in the store!!!

The WACOM Thrift Shop is located at 1811 Lauritsen Road. For more information, call 446-6667.

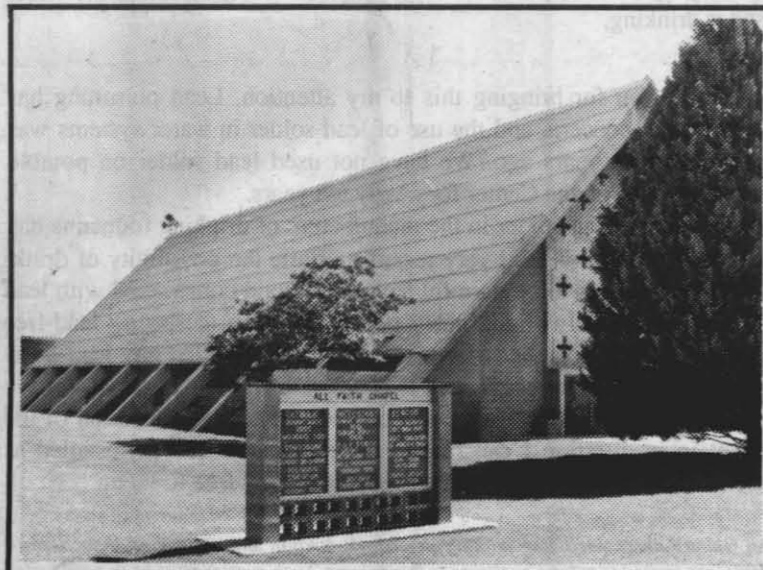
## Donations still accepted

Even though the Salvation Army drop off box has been removed from the corner of Richmond and King, donations are still needed and wanted.

To make items easier to donate, the Salvation Army's

truck will be in the China Lake area every Thursday between the hours of 8 a.m. and 1 p.m. to pick up donations at requested pick-up spots.

To schedule a pick-up, please call 1-800-348-3562.



## Divine Services

Protestant	
Sunday Worship Service, Main Chapel	10:30 a.m.
Sunday School, Annexes 1, 2 & 4	9:00 a.m.
Bible Study (East Wing), Wednesday (September thru June)	11:30 a.m.
Men's Prayer Breakfast, East Wing, Thursday	6:15 a.m.
Officers' Christian Fellowship/Christian Military Fellowships, Annex 4, Thursday	7:00 p.m.
Islamic	
Jumaa Prayer (Friday in Annex 4)	1:00 p.m.
Roman Catholic	
Sunday Mass, Main Chapel	9:00 a.m.
Daily Mass, Small Chapel	11:35 a.m.
Confession (Sunday), Command Chaplain's Office	8:15-8:45 a.m.
Confession By Appointment	Anytime
Religious Education Classes (Sunday) (September thru May), Annexes 1, 2 & 4	10:30 a.m.
Jewish	
Weekly Services (Friday - East Wing)	7:30 p.m.
Adult Hebrew Lessons (Saturday in Annex 4)	9:00-10:00 a.m.
Sabbath School (Saturday in Annex 4)	1:00-4:00 p.m.

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## Navy Relief teaches students 'the places to turn' for a hand

Learn more about the Navy Relief and the Navy/Marine Corps community from a class being offered by Dianne Kerefky, the executive director from Port Heuneme/Point Mugu auxiliary. The class will be held from 9 a.m. to 12 noon, Monday through Friday, from Sept. 25 - 29.

The class will cover basic policies and principles of Navy Relief and how these are applied to volunteer work. They also include a wide variety of information concerning the Marine Corps and Navy, as well as many benefits for military personnel

and their families.

The course is open to anyone with a genuine interest in helping sailors and marines in time of emergency, or just learning more about Navy Relief.

Classes will be held at 1811 Lauritsen Road, in the Navy Relief Building, ending with a graduation scheduled for Sept. 29 at 12:15 p.m. Free child care will be provided at the Base nursery. If requested, NRS will pay round

trip mileage to classes at the IRS allowable rate. Class hours and commuting time are credited toward a Navy Relief Volunteer pin, charm or tie device.

Navy Relief work is done mainly by volunteers; only through their efforts can we truly take care of our own in emergency situations. While everyone is urged to come to this course, no one is required to volunteer. At some time, you or your neighbor may need Navy Relief and you will indeed know "the place to turn." That alone is enough to make attending the course worthwhile.



By LCdr. S.A. Casimano, CHC, USN  
 COMMAND CHAPLAIN



### "The Beatitudes of Jesus (Part 4)

This week, we conclude our brief consideration of those verses of the Gospel of St. Matthew (5: 3-12) which are known to us as the "Beatitudes of Jesus."

We recall, in this final section of commentary on these pronouncements of the Savior, that each "Beatitude" gives a special directive or guideline, the following of which is designed to perfect the Christian in his or her call to follow Christ.

Summing up this section of teaching, Jesus proclaims: "Blessed are you when people insult you, persecute and falsely say all kinds of evil things against you because of me. Rejoice and be glad, because great is your reward in heaven, for in the same way they persecuted the prophets who were before you." (11-12).

Bible scholars point out the fact that the Savior ends his list of "Christian characteristics" on a sad and chilling note: persecution, insult, slander and misunderstanding may possibly lie ahead for the faithful follower who seriously attempts to incorporate into his or her life attitudes of "detachment from worldly possessions," or "a desire for equity and justice among men," or any of the virtues describe in each Beatitude. And, if we reflect on this, it only stands to reason.

The history of mankind is hardly a stranger to persecution. Indeed, whenever and wherever there exists a number of different world views or beliefs, there will eventually emerge a dominant opinion that, more often than not, may seek to preserve itself by any means possible, even persecution.

In our day, "citizens of the heavenly kingdom," whose values stand apart from those whose goals are dominance, power, manipulation of people and resources, and personal gain at any price should not find it hard to believe that they cannot ally themselves with those whose motives are exclusively worldly or materialistic. If to proclaim Christ the Lord means striving for all that he indicated as good, just, noble and God-like, then the Christian will invariably find himself or herself at odds with

those who do not share the urgency of this belief.

Peace and equity and harmony cannot co-exist with contention, discord and merciless action for personal gain. And, those who approach the world today with firmly-rooted convictions of peace, equality, meekness, a hunger and thirst for justice, and a belief that all are brothers and sisters of common heavenly Father, are bound to meet with persecution and be objects of backbiting and misjudgment.

It is difficult to be a "make of peace," when, even in our day, it is more expedient to use force or coercion to settle conflicts. It is difficult to advocate humility and equality of all, when the manipulation of races and peoples of differing cultures and beliefs has proven to some to be the most useful solution for control. Simply put, it is difficult to be a Christian today and not compromise the values for which Christ himself so clearly stood and toward which we are asked to strive by our decision to "take up our cross and follow him."

Jesus, once again, pronounces a special blessing ("Blessed are you...") on those who squarely face and cope with the bitterness of rejection and unpopularity because their views espouse more gentle, tender and compassionate methods of interaction with others. Persecution need not be experienced as it was by the early Christian martyrs who, by the grace of God, happily chose death and physical suffering rather than surrender their beliefs. Today, it can take a number of forms: unpopularity, ostracism, criticism and ridicule are just as painful and can be met with at every turn from people who do not share the peaceful, all-embracing vision of Christ. Care, too, must be taken that "fanaticism" not replace the power of gentle and authentic example: the "persecuted of God" quietly and humbly accept the fate of being misjudged, without retaliation or aggressiveness or being overbearing, because theirs is a kingdom that will ultimately triumph. This has been the belief of Christians, persecuted and misjudged, down through the centuries.

## Long-term training...

(Continued from Page 16)

responsibility. Nominees should be in the growth period of their careers at the DP-4 or SES levels. Other mandatory characteristics include a high intellectual capacity and a proven record of management abilities and job accomplishments.

### Princeton Midcareer Fellows in Public Affairs

Location: Woodrow Wilson School of Public and International Affairs, Princeton, New Jersey

### Duration: 1 academic year

This program helps midcareer officials increase their knowledge in disciplines relating to their fields. Participants choose from a variety of courses and seminars. Nominees should be managers at the DP-3 level and above.

### Navy Experience with Industry Program

Location: Various locations in the private sector

### Duration: 1 year

Background: The Navy Experience with Industry Program is a managerial development program of the Office of the Secretary of Defense under the direction of the Assistant Secretary of the Navy (Shipbuilding and Logistics). The purpose of the program is to provide Navy personnel an opportunity to experience and adopt sound private business techniques through long-term/rotational assignments with industry.

Structure: The program covers a 10-12 month period during which individuals are placed with companies that match their job requirements and desired learning objectives. Individualized training plans are mutually developed by participants and industry to include both general and specific learning objectives. While in the program, participants are assigned a company mentor who provides counseling and assistance in the selection of job assignments.

Eligibility: The program is

open to employees in grades DP-3 and above. All nominees should have experience in the logistics career fields and have demonstrated the potential for promotion to top management positions.

More detailed information about OCPM sponsored programs is published in OCPM Training Programs Manual NAVSO P-3669 which is available in the Academic Fellowships Office, Code 2241, Room 212, in the Training Center.

### How to apply

Interested employees may obtain application forms and information about application procedures from Code 2241, Room 212, in the Training Center, Bldg. 947. Additional information about Graduate LTT and specific OCPM sponsored program is available from Bill Bethke or Sue Swett, Code 2241, NWC ext. 2349.

Application deadline for both NWC and OCPM programs is Oct. 3.

## Choices given at college

Whether it's Physical Science or Physics you're interested in, Cerro Coso has the course for you this Fall. Fall classes begin Aug 21.

Introduction to Oceanography is a beginning oceanography course covering all aspects of the sea: physical, chemical, biological and geological, emphasizing the coastal environment. Richard Leo will instruct the 3-unit course on Mondays, Wednesdays, and Fridays from 9-10 a.m. in Room 229.

Properties of matter, mechanics, heat, sound, light, electricity, magnetism, and modern physics is the topic of General Physics. This 4-unit course was designed for preprofessional, and non-engineering students. The course will meet on Tuesdays and Thursdays from 5-6 for lecture and for lab on Tuesdays from 6:40-9:30 p.m. in Room 328.

General Earth Science is an introduction to geology, oceanography, meteorology, and astronomy. The 3-unit course will cover rocks and minerals, mountain building, ocean and shoreline features, weather fronts and space exploration. This course was designed for the non-science major. A class will meet on Tuesdays and Thursdays from 8-9:30 a.m. in Room 229 and another class will meet on Mondays and

Wednesdays from 5-6:20 p.m. in Room 334.

Other physics courses being offered include: Electricity and Magnetism and Physics Recitation.

All residents of the Kern Community College district are eligible to enroll in classes at the col-

lege if they are a high school graduate, 18 years of age or over, or a high school junior or senior with the written approval of their principal.

Enroll in any of the over 150 courses being offered by Cerro Coso Community College during the fall 1989 semester.

## Soldering classes now being offered

Three 40-hour high-reliability soldering courses for government personnel needing certification to MIL-STD-2000 as inspector or operators are being offered by Soldering Technology Branch. The classes will be held at 543 Graaf Street from 7:30 a.m. to 4:30 p.m. The first two courses will be held Aug. 28-Sept. 1 and the third will be held Sept. 11-15.

In addition, one 24-hour high-reliability soldering course will be held Sept. 6-8 for government/contractor personnel requiring annual recertification as inspectors or operators. The training will be held from 7:30 a.m. to 4:30 p.m. at 543 Graaf Street.

The requirements for the three 40-hour courses are (1) previous soldering experience and (2) a current eye examination. Requirements for the recertification class are (1) previous certification to WS-6536 or DOD-STD-2000 and (2) a current eye examination.

To be scheduled into class, contact the Soldering Technology Training, Code 36812, 446-5571.

## CCC offers wide variety of electronics sessions

Cerro Coso Community college is offering a variety of Electronics courses during the 1989 fall semester which begins Aug. 21. Some of the courses being offered include: "Electronics Troubleshooting" and "Electronics Manufacturing Processes".

David Allen will instruct "Electronics Troubleshooting" on the application of electronics principles. This 2-unit course meets on Thursdays from 6 to 9:50 p.m. in room 145.

Charles Lewis will instruct a course in the techniques of construction required by the working electronics technician as well as assemblers. "Electronics Manufacturing Processes" will meet on Tuesdays from 5:30 to 9:20 p.m. in Room 145.

Included in the line-up of electronics courses are: "Direct Current circuits"; "Alternating Current Circuits II"; "Active Circuits II" and "Digital Circuits II".

To learn more about the 1989 fall semester of classes contact the college at 375-5001. Fall schedules are available at a variety of locations around town including the Public Library and the Chamber of Commerce.

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# Apply now for long-term graduate training and OCPM assignments

Applications for NWC sponsored long-term graduate level training and Office of Civilian Personnel Management (OCPM) long-term training are invited from NWC employees. Long-term training is defined as training off Center for a period of more than 120 consecutive working days. To be eligible for long-term training, interested individuals should be employed at NWC for at least three years at the time studies begin.

Long-term training may be considered to meet any of the following objectives:

1. To update employees' knowledge where several years have passed since they have completed or left academic or in-service training.
2. To give technical employees management skills when job responsibilities have, or will become, managerial.
3. To update employees' knowledge and background in their job specialty.
4. To teach employees aspects of another occupation that relates to their present occupation where responsibilities are interdisciplinary or multidisciplinary.
5. To provide educational opportunities stressing motivation and human relations.

Long-Term Training Committee (LTT) members will consider applications in any area of study that relates directly to NWC program requirements. The primary criteria the LTT follows in determining when long-term training is used instead of after-hours, part-time or short-term programs are as follows:

1. The new knowledge and skills required of the employee, either in present or planned career assignments, necessitate a comprehensive, concentrated program of study.
2. The time span for acquisition of new skills and knowledge is such that an accelerated study program of long-term full-time duration is required.
3. It is determined that the academic superiority of the institution selected is such that it is clearly in the best interest of the government that the employee attend the selected educational institution.
4. There is no educational institution or academic program

in the local or community area for part-time or after-hours training.

Office of Civilian Personnel Management funds are available to cover the trainee's travel allowances to and from the school, tuition and fees required for enrollment, and payment of PCS moving expenses or a reduced rate per diem for the duration of the training. The trainee's salary (including MTP) will be paid for with Code 2241 funds.

### NWC sponsored graduate long-term training

For NWC sponsored long-term graduate level training, the following areas of critical need have been established by Center management: systems engineering; microwave/RF circuits, sub-systems and missile guidance; microwave antennas; digital and analog signal processing; missile test equipment; target signatures-modeling and reduction; radar, laser, EO-IR targeting sensors; weapons/avionics integration; tactical embedded software; facility simulation software; air combat susceptibility/vulnerability; EW systems; propulsion; operational research/operational analysis; statistics; microwave circuits, antennas and radar engineering; advanced structural engineering (aerodynamics - CFD (aerospace - thermal, structures); financial analysis/business systems analysis; physics (electro magnetism); electrical engineering - high voltage, short- rise time power; physics - engineering -- detonation mechanics; engineering -- interior ballistics; engineering -- combustion; modern digital signal processing - ISAR, SAR; RF active array theory/practice; avionics system engineering. Programs of study at the graduate level are not solely limited to these areas.

Further details of the NWC sponsored long-term training program are provided in NAVWP-NCENINST 12410.5M of November 12, 1987, and in the Long-Term Training Handbook, IDP 3511. Both sources are available from department offices or from the Training Center.

### OCPM sponsored long-term training programs

The Legis Fellows Program  
Location: Washington, D.C.

### Duration: 5-6 months

This program provides a developmental assignment for personnel whose current or prospective positions may require working knowledge of the operations of Congress. The program combines classroom training with hands-on experience with the staff of a member or committee of Congress. The training will include an orientation session on the operations and organizational structure of Congress, an assignment with a member or committee staff of approximately four months and bi-weekly meetings during the work assignment on Capitol Hill. For some agency personnel (e.g., SES candidates), the program will provide training essential to their executive development plans.

Qualifications: Nominees must be at the DP-3 level. Other qualifications include a demonstrated flexibility in work habits, the ability to initiate work and to work independently with minimum supervision, direction or practices and techniques.

### Congressional Fellowship Program

Location: Washington, D.C.  
Duration: 9 months  
This program involves students in a variety of assignments that will develop their knowledge and understanding of congressional operations. These assignments are full-time positions in offices of members of Congress and staff members of congressional committees. Also included are weekly seminar meetings with leading congressional, governmental and academic figures.

Qualifications: Nominees should be in managerial or executive positions at the DP-3 level or above and have demonstrated potential for high-level management responsibility, and must be willing to work in an unstructured environment with irregular hours of work. Nominees must have an interest in the legislative process and public affairs, must have demonstrated commitment to public service and must show the relevance of congressional experience to their career goals.

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**Armed Forces Staff College**  
Location: Norfolk, Virginia  
Duration: 5 months  
The course content is extremely broad in nature, focusing on the problems and implications involved in economic, political, technological, administrative and military planning.

Qualifications: Those nominated should be grade DP-3 or above. Nominees must have demonstrated a potential for higher-level responsibilities within the Department of Navy, a capacity to adjust readily to a variety of substantial fields and a capacity to master complex subject matter quickly. Nominees must have a TOP SECRET security clearance.

**Industrial College of the Armed Forces**  
Location: Fort McNair, Washington, D.C.  
Duration: 10 months  
This program offers senior-level courses and research in mobilization and the management of resources in support of national security. This program prepares you for positions of high trust and leadership in the federal government. Nominees should be at the DP-4 level.

**National War College**  
Location: Fort McNair, Washington, D.C.  
Duration: 10 months  
The National War College conducts a senior-level course of study that prepares selected personnel of government depart-

ments and agencies for high-level command and staff policy positions associated with national security strategy formulations and implementation. Nominees should be at the DP-4 level.

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ments and agencies for high-level command and staff policy positions associated with national security strategy formulations and implementation. Nominees should be at the DP-4 level.

**President's Executive Exchange Program**  
Location: Various locations in the private sector  
Duration: 1 year

This program offers a developmental assignment in the private sector. Executives participate in a comprehensive education program that is both national and international in scope. The education program involves mandatory attendance at four conferences during the exchange year. Executives take leave without pay from their government jobs and their salaries are paid by their private-sector hosts. Hosts also assume travel and lodging costs incurred by attendees at the conferences. At the end of the exchange year, executives return to their sponsoring federal agencies to positions of comparable or greater

(Continued on Page 17)

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# NWC pays for study on Coso well failures

Failure of a number of old wells and increased geothermal activity at the former Coso Hot Springs Resort area of the Naval Weapons Center (NWC) are of concern to Center officials and local Native Americans.

Because there is no obvious reason for the failure of the wells and the increased geothermal activity at and near the resort, NWC has let a contract for a professional study of the activity.

Mel Erskine and Ben Lofgren, geologic professionals with experience in geothermal systems, are in the process of doing a study to determine, if possible, the actual cause. An initial report is due by mid November, according to Dr. Carl Austin, head of NWC's Geothermal Program Office.

Monitoring of wells and mud pots at the old Coso Hot Springs Resort by the Center will continue during this study period and beyond.

Austin notes there is no reason, at this time, to believe the Coso Geothermal Power Development, located near the resort, is in any way connected to the resurgence of activity at the old resort. Indeed, all previous public concerns about any potential impact by the power development on the old hot springs area focused on the possibility that the development would dry up steam wells and mud pots.

NWC's contractor has injected tracer compounds into the geothermal fluid before it is reinjected into the ground after being used in the power plants in an effort to see where the fluids go. To date none of those tracer compounds have been discovered in samples taken from the resort area.

While access to the Coso Hot Springs area has been restricted for general safety reasons, these restrictions are not intended to restrict access by Native Americans. They can continue to use the area for religious and medicinal purposes. Native Americans have been coming to Coso for thousands of years to use the mud, water and steam in their culture. NWC has no intention of stopping that practice, and plans no additional restrictions on Native Americans.

Wells and other features of Coso Hot Springs have been monitored by the Navy, in increasing detail, for nearly 30 years. During that time many of 40 known wells, all drilled by resort developers starting in the early 1900s, have failed. In every instance, the failure was caused by the highly corrosive steam and fluids eating away the metal well casing and allowing the steam to escape.

Coso Hot Springs is a dynamic and ever-changing geothermal site. It has changed considerably from when it was a resort and continues to change. The latest change may be more of a return to a natural state as the top of the main well used by resort operators has rusted off and is spewing steam. In time this too will change.

NWC officials continue to meet with and work with Native American groups and provide scheduled access to Coso Hot Springs as they have since signing a memorandum of understanding with the Native Americans in 1979.

## Energy reps set meeting for August

There will be a meeting of the Department Energy Conservation representatives on Aug. 29 from 8 to 10 a.m. The meeting will be held in the conference room of Building 00981.

For further information, contact Major J. Pinion or Tami Maxwell at NWC ext. 3411, ext. 381.



COSO HOT SPRINGS--A recent view of the well to the old bathhouses.

This is the quickest means of reaching people in the NWC Model Installation Program Office. They are there to assist China Lakers with the MIP process.

Administration Building  
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# Industry pays for patent license

Initial steps taken toward bringing new benefits to scientists and engineers at China Lake



**SHARING THE WEALTH**—Capt. Doug Cook, far left, and Gerry Schiefer, far right, congratulate two of the first three NWC inventors to receive royalty checks from patents of their creations. Herb Richter, Joseph Johnson and Ron Henry (not pictured) each contributed to two patents relating to chemiluminescence. Both the inventors and the Naval Weapons Center will be receiving royalty checks from the commercial application of this system. Photo by Don Cornelius, TID.

(Continued from Page 1) selling price of devices using the inventions during the life of the patent.

"This first step toward commercializing NWC technology should encourage other engineers and scientists at NWC to submit patent disclosures which have licensing potential," said John Unpingco, NWC Counsel. "Additional licensing inquiries have been received and we expect that additional licenses on other Center inventions will be negotiated and granted."

For more information on NWC's patent process, call NWC ext. 1832.



**NWC CREATION BECOMES VALUABLE TOOL**—These chemiluminescent 'light-sticks' glow due to a chemical reaction. One application, pictured above, is to illuminate maps in emergency situations. Two commercial companies are paying the inventors and NWC fees and royalties for the privilege of using the patented inventions in their own products. Photo by Don Cornelius, TID.

# Navy Meritorious Service award caps stellar career

(Continued from Page 1) fields of ramjet propulsion, gun systems and energetic materials, you have brought national recognition to yourself and the Naval Weapons Center."

In the letter nominating Williams for the award, Matt Anderson, head, Ordnance Systems Dept., noted, "Duane was instrumental in establishing the Navy's capability in air-launched airbreathing propulsion. He initiated the design and construction of the airbreathing test facilities both at 'Dock 18' and 'T' Range. He has directed most of NWC's efforts in airbreathing propulsion technology from their beginnings until the recent reorganization of the Ordnance Systems Dept. Pioneering work on the GORGE, ACIMD, SFRJ and SLAT systems have also been performed under his direction."

More recently, Williams assumed responsibility for Navy aircraft gun technology and development. During this time, noted Anderson, an impressive array of guns and ammunition was provided to the Fleet, including the 25mm system for the AV-8B and a suite of new 20mm multipurpose ammunition. According to Anderson, one of Williams' most

lasting contributions to the Center was the work he did as a senior member of the Junior Professional Selection Panel.

While participating in the Junior Professional recruitment, selection and development programs, Williams was an active recruiter on college campuses and was the Ordnance Systems Department's focal point for Junior Professional placement and development, bringing onboard a number of young scientists and engineers who are now assuming positions of leadership as senior staff members retire.

Williams extended his contributions to the Navy when he went to Washington for a year as acting Naval Air Systems Command Propulsion Technology Administrator and later, when he became the Naval Science Advisor to the Amphibious Forces Pacific (COMPHIBPAC).

Capt. Cook concluded the award ceremony by saying, "In recognition of your outstanding contributions, I present this award and express my sincere appreciation and congratulations for a job well done."



**CONGRATS FROM SKIPPER**—Capt. Doug Cook, left, and Matt Anderson, center, head of Code 32, present Duane Williams the Navy Meritorious Civilian Service Award. Photo by Al Boyak

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## 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 applications 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-318-3/4, Code 26** - Incumbent provides administrative and secretarial support to the Public Works Officer/Assistant Public Works Officer. Deals with military travel, training and leave policies and regulations. Knowledge of VAX computer system is helpful. Promotion potential to DG-4.

**No. 62-059, Secretary (Typing), DG-318-2, Code 6204** - This position is located in the Radar Cross-Section (RCS) Range Office in the Range Department. The incumbent provides clerical and administrative support to the Program Office and to the Junction Ranch Test Section, Code 62041. Experience with Macintosh computers is desirable. Candidates must be able to obtain and maintain a Top Secret clearance. Promotion potential to DG-3, but not guaranteed. Status eligibles may apply.

**No. 35-057, Secretary (Typing), DG-318-1/2, Code 3574** - The incumbent will provide secretarial and administrative support to the Head, RF Systems Design Branch (Code 3574). Experience with the Macintosh is desirable. Knowledge and ability to handle plant account, filing, procurement, etc., is desirable. Promotion potential to DG-2. Status eligibles may apply.

## Women's Executive Program information provides assistance

The Women's Executive Leadership Program is a 12-month, career-enhancement program for both women and men desiring training and developmental experiences to prepare them for future opportunities as supervisors, managers and executives in the Federal Government. The program is open to full-time, permanent employees in non-supervisory (or less than one year of supervision) positions at the DA/DS/DT-3 and DP-3 (below the midpoint) levels. Selected participants will spend a minimum of four and one half months away from the workplace during the year.

Information about this program is available in a special edition of the NWC Announcements (Blue Sheet). This special edition will cover NWC graduate long-term training, OCPM long-term training programs as well as the Women's Executive Leadership Program. Additional copies of this special edition are being sent to each department office in addition to regular distribution.

For further information, interested personnel should contact Bill Bethke on NWC ext. 2349 or Ann Kurotori, Federal Women's Program Manager, on NWC ext. 2348.

## Falcon offers classes

In late August, Falcon Microsystems will begin offering Macintosh training classes on a variety of subjects. These classes will be open to the general public and contractors, as well as to NWC employees. Classes will be conducted at I17 Gold Canyon in Ridgecrest.

Code 224 will fund NWC employees taking Falcon courses in Ridgecrest if they are work-related and they are not courses that are already scheduled on-Center by Code 224.

To register with Falcon, submit NWC Form 12410/73 -- Request for On-Center Training -- (NOT a DD-1556) to Code 224 at least 10 working days prior to the class' starting date.

# Be generous -- donate those extra leave hours

Employees indicated below have been approved to become leave recipients under the Leave Transfer Program. These employees have exhausted annual and/or sick leave because of personal emergencies and will be in a 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.

**Debra Campbell, Administrative Assistant, Code 2803** -- is recovering from complications due to pregnancy and childbirth.

**John Hamilton, a former NWC employee (1965-1981) now employed by the Defense Logistics Agency** -- is currently undergoing treatment for liver cancer.

**Jeanne Sizemore, Secretary, Code 344** -- is recovering from a hip and pelvic injury. She is expected to return to work Oct. 1.

**Brian D. Peterson, Industrial Engineer, Code 3294** -- is recovering at Daniel Freeman Memorial Hospital from a bicycle accident on May 14. He is recovering from a severe head injury. Physical, speech and occupational therapy are being given and he is improving every day.

**Mike Mason, Mechanical Engineering Technician, Code 3526** -- is continuing to receive chemotherapy treatments at UCLA for his long-term illness. He is able to work intermittently between treatments.

**Michael Phillips, Student Trainee (Computer Scientist), Code 2803** -- has had repeated surgeries for recurring tumors of the knee, which have led to two replacements of the knee joint.

**Melody R. Reymond, Budget Analyst, Code 2836** -- who

under went emergency surgery and was unable to work from mid-February until late April is indebted for leave.

**Robert R. Huntley, Program Manager, Code 35A1** -- has had a spinal fusion and neural surgery on his right arm. He has been able to work only part time.

**Robert Donsbach, Specifica-**

**tion Writer/Editor, Code 3656** -- suffered a heart attack in May and has now returned to work under close monitoring of his progress by his doctors. He is indebted for leave.

**Joan A. Johnson, Secretary, Code 3592** -- needs annual leave to care for her husband, who is being treated for cancer.

**Leave Donation Form**  
 Complete and send to Code 221

From: \_\_\_\_\_

Code: \_\_\_\_\_

I wish to donate \_\_\_\_\_ hours of my annual leave to: \_\_\_\_\_

I have attached a copy of my last leave and earning statement.

Signature \_\_\_\_\_ Date \_\_\_\_\_

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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 Blandly. 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. 00-004, Writer/Editor (Printed Media) DA-1082-1/2/3, Code 0033** - Incumbent serves as staff writer of the NWC Rocketeer and is responsible for writing and editing material for this publication. Incumbent should require minimal supervision. **JOB RELEVANT CRITERIA:** Knowledge of writing and editing techniques; knowledge of print media; knowledge of public affairs practices; ability to communicate orally. Knowledge of Macintosh computer operations and Quark Express software is highly desirable, but not mandatory. Promotion potential to the DA-3 level, but such promotion is not guaranteed. Previous applicants need not reapply.

**No. 24-028, Supervisory Electronics/Mechanical Engineer, DP-855/830-3, Code 2408** - This position is Head, Operations and Telecommunications Security Office, Safety and Security Department. The incumbent's primary

responsibilities are the management and administration of Operations Security, Communications Security, Computer Security and TEMPEST programs as they affect the Center as well as provide technical advice and assistance in support of the NWC mission. **Job Relevant Criteria:** Ability to perform as a first-line supervisor; Ability to perform technical and analytical work related to the development and improvement of communications systems and procedures as they apply to NWC; Must have the ability to understand and integrate/implement DON programs and policies as they relate to Center requirements; Must be willing to support the Center EEO policies and affirmative action plans. Must have the ability to communicate verbally and in writing. Promotion potential to DP-3.

**No. 35-059, Administrative Officer, DP-341-3, Code 35104** - This position is located in the Weapon Systems Analysis

Division, Attack Weapons Department. The incumbent will serve as Business Manager for the Target Vulnerability Office (Code 351094) and the SSVF Office. Major responsibilities include financial/budget management of the two offices, and primary responsibility for division physical and operations security procedures. Serves as division facilities manager, liaison between management and program offices, and management status reporting. Incumbent will be responsible for assisting division head and administrative officer in securing and maintenance of division personnel submissions as well as overall equipment. Incumbent must work effectively with all facility managers, project offices, and other Center and off-Center personnel in developing business strategies for the program offices. **Job Relevant Criteria:** Knowledge of NAVWPNCEN financial system; Knowledge of contract preparation and monitoring; Ability to communicate effectively in writing; Ability to communicate effectively orally; Ability to collect, analyze and present data. Promotion potential to DP-3.

**No. 36-051, Logistics Management Specialist, DS-346-3, Code 3664** - The vacancy is located in the Integrated Logistics Support Branch, Fleet Engineering Division, Engineering Department. The incumbent is responsible for preparing and implementing ILS plans for DOD weapons systems/equipment; establishes logistics support criteria for system specifications, solicitation packages, contracts, and life cycle cost studies; prepares and manages budgets for cognizant programs, and ensures system support during deployment operation. **Job Relevant Criteria:** Knowledge of integrated logistics support; knowledge of logistics related technical field; ability to plan and coordinate activities; ability to conduct analysis. Status eligibles may apply.

**No. 36-052, Engineering/Electronic Technician, DT-802/856-2/3, Code 3684** - This position is located in the Product Assurance Laboratories, Product Assurance Division, Engineering Department. Incumbent will operate as the technical interface between those center projects requiring prototype electronic fabrication/assembly support and the contractor (VITRO) who is currently providing those services for NWC. Incumbent will be responsible for assessing the requirements of the projects and writing the statements of work, delivery orders, and cost estimates for required work tasks. Duties also include monitoring the work in progress and insuring quality requirements are met as needed. The incumbent will operate as the Contracting Officers Technical Representative (COTR). **Job Relevant Criteria:** Knowledge of general electronic equipment requirements for aircraft, missiles, ground support, and test equipment; knowledge of current electronic assembly techniques and specifications governing them; knowledge of delivery order contracts and COTR requirements; ability to communicate orally and in writing; ability to interface effectively with contractor and other government personnel; ability to plan, organize and accomplish work independently. Promotion potential to DT-3.

**No. 36-053, Industrial/Equipment/Quality Assurance Specialist, DS-1150/1670/1910-2/3, Code 3684** - This position is located in the Product Assurance Laboratories, Product Assurance Division, Engineering Department.

Incumbent will operate as the technical interface between those center projects requiring prototype electronic fabrication/assembly support and the contractor (VITRO) who is currently providing those services for NWC. Incumbent will be responsible for assessing the requirements of the projects and writing the statements of work, delivery orders, and cost estimates for required work tasks. Duties also include monitoring the work in progress and insuring quality requirements are met as needed. The incumbent will operate as the Contracting Officers Technical Representative (COTR). **Job Relevant Criteria:** Knowledge of general electronic equipment requirements for aircraft, missiles, ground support, and test equipment; knowledge of current electronic assembly techniques and specifications governing them; knowledge of delivery order contracts and COTR requirements; ability to communicate orally and in writing; ability to interface effectively with contractor and other government personnel; ability to plan, organize and accomplish work independently. Promotion potential to DP-3.

**No. 36-054, Specifications Writer/Editor, DS-1083-1, Code 3656 (2 vacancies)** - This position is located in the Specifications Branch, Technical Data Division, Engineering Department. Incumbent will be expected to prepare specifications, review specifications pre-

pared by contractors, prepare Engineering Change Proposals (ECP) and Notices of Revision (NOR), incorporate approved NORs into specifications, and edit specifications for proper form and format. **Job Relevant Criteria:** Ability to plan, organize and accomplish work on multiple tasks simultaneously; ability to research, understand and apply appropriate MIL-STDs to meet branch/program requirements; ability to work effectively independently or as a team member; ability to use a computer for input in specification format; ability to communicate effectively both orally and in writing. Promotion potential to DS-3.

**No. 39-069, Administrative officer, DA-341-1/2/3, Code 391** - The incumbent will serve as division administrative officer for the Missile Systems Division of the Intercept Weapons Department. The incumbent will provide administrative support to the Division in the areas of financial management, procurement, personnel, facilities, equipment and space (FESS), safety, and security. **Job Relevant Criteria:** Knowledge of NAVWPNCEN's financial, procurement, personnel, and FES systems and procedures; knowledge of Macintosh computer and Excel and Word software desirable; ability to deal with people at all levels on off the Center; ability to communicate orally and in writing. Promotion potential to DA-3, but not guaranteed.

## Reassignment opportunities

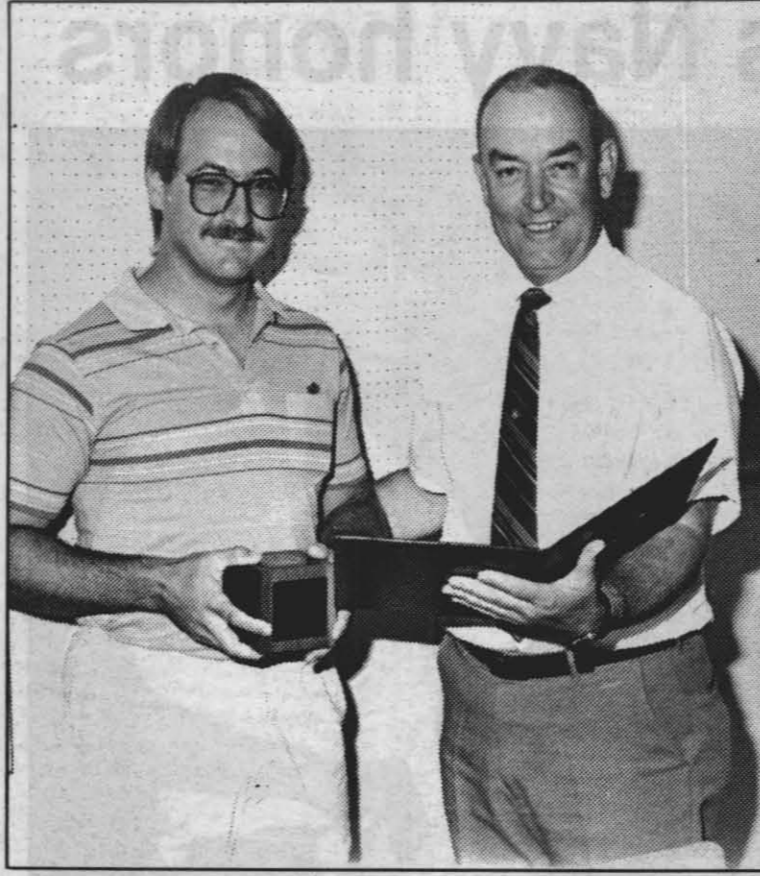
This column is used to fill positions through reassignment only. For this reason, the Reassignment Opportunity Announcements are separate from the Promotion Opportunities column in the Rocketeer. Applications will be accepted until the date stated in the announcement. Employees whose work history has 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. 30-008, Computer Scientist, DP-1550-1/2/3, Code 3032** - This position is located in the Weapons Planning Group (Code 30, Simulations Branch (Code 3032). The Weapons Planning and Tactics Analysis Center (WEPTAC) is an interactive wargaming simulation which allows for the analysis of conceptual weapons and evaluations of Navy Fleet tactics. The Simulations Branch of the WEPTAC organization is responsible for the maintenance of the existing production system, the development of a new Phase II simulation, and the configuration control of software projects. This dynamic environment offers exciting and challenging tasks in the modeling and simulation of scientific and physical phenomena as they apply to anti-air, anti-surface and anti-submarine warfare. Promotion potential to DP-3. Send current SF-171 to Cliff Stone, extension 2966.

**No. 35-060, Interdisciplinary Electronics, Electrical, Mechanical, Engineer/Computer Scientist/Mathematician/Physicist/Operations Research Analyst, DP-850/855/1520/1550/1310/1515-1/2/3, Code 3563** - This position is that of HARM ELINT Engineer in the HARM Software Support Activity (Code 3563). The ELINT Engineer will be responsible for laboratory testing of HARM Systems as related to ELINT file operational characteristics using state-of-the-art computer controlled complex target generators

in the HARM SSA laboratory. The person selected will receive extensive training in HARM radar targets characteristics and modes of operation. The person selected for this job will have the opportunity to become a recognized expert in radar systems and anti-radar missile systems. Promotion potential to DP-3. Send current SF-171 to Ron Going, Code 3563, extension 2951.

**No. 35-061, Interdisciplinary Electronics, Electrical, Mechanical Engineer/Computer Scientist/Mathematician/Physicist/Operations Research Analyst, DP-850/855/1550/1520/1310/1515-1/2/3, Code 3563** - This position is that of Software Engineer for the HARM Software Support Activity (Code 3563). The person selected for this position will have the opportunity to use state-of-the-art Electronic Warfare threat simulators to analyze and test the HLCS hardware and software. This position is software intensive in PASCAL and assembly language. Experience in anti-radar missile software including signal processing or guidance and control is desirable. Work includes development and IV&V of missile software. Promotion potential to DP-3. Send current SF-171 to Ron Going, Code 3563, extension 2951.



**SKILL AND ENTHUSIASM--were rewarded when Mike Hasting recently received the Technical Director's Award for his work on a polymer briquette for use in ships' waste treatment systems. Gerry Schiefer, NWC technical director, congratulates Hasting on his achievement. Photo by PHAN Cary Brady.**

## PW adopts altered work hour shedule

Effective Aug. 28, Public Works (PW) employees will begin a 5-4/9 work schedule. This type of schedule allows employees to work nine hours per day for eight days, one eight-hour day and have one Friday off in any given 80-hour pay period. Employees will alternate Fridays off, ensuring a work force of at least 50 percent with business continuing as usual.

PW employees working in outlying areas, such as the ranges, will work the hours of the assigned codes, so as not to interfere with NWC's mission, noted Richard Staples, department staff employee, Public Works Department.

"The philosophy of this change is to increase the morale of the employees without sacrificing NWC's mission," stated Staples. "Studies have shown that this work schedule enhances recruitment, increases morale and reduces absenteeism."

The Procurement Department has been on the 5-4/9 work schedule for the past several months, noted Staples, and the department has experienced positive benefits from the change.

## Dan Gillespie presents 'quantum mechanics'

"Is Quantum Mechanics Crazy, Or What?" is the title of the first talk to be presented in a new Technical Director's Seminar series. The talk is set for Wednesday, Aug. 23, at 9:30 a.m. in the Michelson Laboratory auditorium (Rm. 1000D). All interested Centerites are cordially invited to hear the talk by Dr. Dan Gillespie from the Research Department.

Head of the Applied Mathematics Research Group, Dr. Gillespie has authored the textbook *A Quantum Mechanics Primer* in 1970, before he came to NWC.

## Persistence brings improved technique to shipboard pipes

(Continued from Page 1)

new technology. A patent has been applied for to protect the Navy interest in this new shipboard applications.

"The technical competence and scientific excellence you demonstrated in responding to

this Fleet request has once again demonstrated NWC's commitment to serving the fleet," said Gerry Schiefer, NWC technical director, as he presented the award. While he was assigned to the Commander, Naval Air Force, Pacific Fleet, as a Science Advi-

sor, Bob Byrne, alerted the Research Department of this critical fleet problem. Hasting is leaving NWC for Humboldt State University for his degree in Physical Sciences and hopes to apply his knowledge when he returns to the Center

# FOX PENN

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# Exemplary service earns Navy honors

Over 42 years of exemplary federal service were honored recently when Jack A. Crawford received the Navy Meritorious Civilian Service Award at his retirement party from Capt. John Burt, former NWC Commander. The former chief engineer of the Rolling Airframe Missile (RAM) project spent 39 of those years at the Naval Weapons Center (NWC).

Capt. Burt commended Crawford for his years of outstanding technical leadership, especially in regard to the RAM program. "Your technical insight has helped to accomplish the repackaging of the RAM guidance and control section to subsequently improve its producibility and reliability during production.... Your comprehensive and thorough technical review of the design and technical data package was key to the successful completion of this program which has led to its early acceptance by the RAM Steering Committee and General Dynamics."

In the letter nominating Crawford for the award, Dillard Bullard, head, Intercept Weapons Dept., noted, "Jack is recognized as an expert missile design engineer by all who work with him and is continually receiving praise for his technical expertise from our Navy Avionics Support Equipment Appraisal (NAVSEA) sponsor (PMS-420), the prime contractors in both the U.S. and Germany, and the entire NWC RAM project team."

Throughout his 39-year career at China Lake, Crawford has contributed to the design, analysis, testing and production of various Navy guided weapons systems. He received the L.T.E. Thompson Award for his work on the AFSC MK16, Extended-Range Antisubmarine Rocket (ASROC), Walleye and Condor. He also received the Haskell G. Wilson Award as a co-inventor for inventions used in the Walleye weapon system. According to Bullard, Crawford holds several patents and is viewed as "an inventor whose inventions exemplify the NWC goals of simplicity, cost effectiveness and high performance."

In March 1985, Crawford retired from federal service and was rehired as a reemployed annuitant for the Warfare Optical Analysis/Requirements Office, Weapons Department. A stint in the Information Systems Group followed before he returned to the Weapons Department in his current assignment.

Not only did NWC benefit from Crawford's expertise, but the community did, too. Crawford has served on the school board, the Employee Services Board and was a member of the Federal Women's Program Committee. He currently holds a seat on the Drummond Medical Group Hospital Board.

Capt. Burt concluded his praise of Crawford by saying, "Your technical achievements, your long history of contributions in helping to fill the needs of the Operational Navy, and your active role within the community have been outstanding. It is people of your caliber and dedication which have made the Naval Weapons Center the center of technical and innovative excellence it is today."



**CONGRATULATIONS--**After honoring Jack Crawford with the Navy Meritorious Civilian Service Award, Capt. John Burt, former NWC Commander, compliments him for his exemplary 42-year federal service career. Photo by Tim Tyson, TID.

## CLPD releases enforcement concentration listing

Motorists on board the Naval Weapons Center (NWC) are reminded that China Lake Police Division (CLPD) officers enforce state and NWC traffic regulations.

According to Kerry B. Swigum, traffic manager, CLPD Operations Branch, areas of concentration for radar traffic enforcement for next week are

- |                                 |   |
|---------------------------------|---|
| listed below.                   | Road.   |
| •Monday -- Randsburg Wash Road. | •Thursday -- Gold Canyon Road.  |
| •Tuesday -- Burroughs Road.     |   |
| •Wednesday -- South Knox        | Violations may be cited at any time, as well as in areas other than the ones mentioned above. |

## Consumer Catalog becomes available by mail or phone

The Consumer Information Catalog is a pamphlet listing more than 200 federal consumer booklets on a wide variety of subjects, including career guidance, nutrition, health, housing, and federal services.

This useful catalog is available at no charge from Congressman Thomas' office. To obtain the catalog, write to: Congressman Bill Thomas, 2402 Rayburn HOB, Washington, D.C. 20515. Or, call one of the district offices: Bakersfield (805) 327-3611 or Lancaster (805) 948-2634.

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Computing Technology's  
**Computer Store**  
249 Balsam 375-5744 next to the Music Man



## Action picking up at Hall Memorial Lanes

### Leagues forming

Hall Memorial Lanes is challenging each code on Center to find a conductor, form a team and enter the inter-departmental bowling competition.

Is your code ready? What code will be the champion?

Games will be played on Wednesday evenings at 9 p.m.

In addition, Blue Chip bowling begins Aug. 30 at 6 p.m.

For more information, call Bill Booth, manager, at NWC ext. 3471.

## Soccer opens new schedule

Fall Soccer registration will be held Monday to Friday from 9 a.m. to 5 p.m. from Aug. 21 to Sept. 8 at the Youth Center.

All players must attend one of the following evaluation sessions for their age group. Results of these evaluations will be used to place the players on balanced skill level teams. Evaluations will be held at Knox Field 1 (located off South Knox Road). The evaluation schedule is Sept. 11-13, Monday through Wednesday, from 5 to 6 p.m. for all levels (Grade 1-3, 4-6 and 7-9). Note: Evaluation is mandatory for all players. Players not attending an

evaluation will not be placed on a team.

The Fall Soccer season is from Sept. 30 through Nov. 18, with the first game being held Sept. 30.

A soccer clinic will be held Saturday, Sept. 23, from 9 a.m. to noon for all coaches and assistant coaches.

A meeting for referees will be held Sept. 20 and for volunteers on Sept. 23. Both meetings will be held at the Youth Center, beginning at 8 a.m.

For further information, please call Youth Activities, sports director, at NWC ext. 2909.



## Donate pacemakers!

Californians may show their desire to donate heart Pacemakers for medical use by including that information on a revised pink donor card supplied by DMV.

Regional organ procurement agencies are located in Sacramen-

to, Los Angeles and San Francisco. Persons having inquiries concerning the Uniform Anatomical Gift Act or procedures for donating pacemakers or organs for research or transplantation should contact one of those offices.

# Isabella run challenge for ultra-marathoners

Runners will enjoy Lake Isabella's Dam Tough Run set for Sunday, Sept. 24. This 38.6 mile ultra-marathon or relay race will challenge all participants. Runners start at the dam (that's why it's called "Dam" Tough) and run around one of California's biggest fresh water lakes. Run the entire 38.6 miles or be part of a four-person relay with two 1/2 marathon legs (13.1 miles) and two 10K legs (6.2 miles).

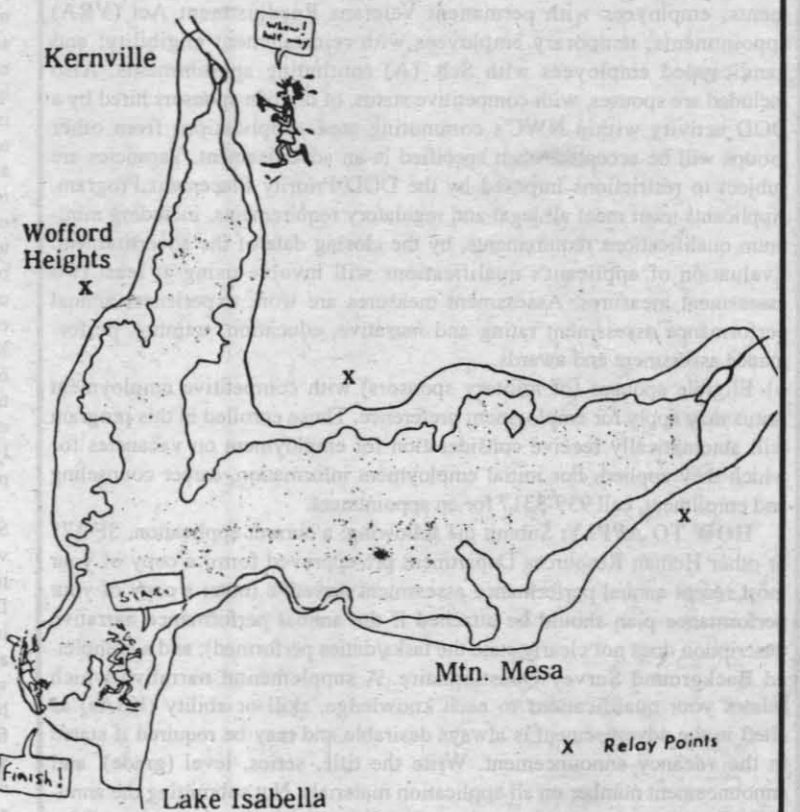
The final leg of the run goes through a series of killer hills that will really test the runner's abilities.

In 1990, the Dam Tough Run will be part of a Grand Prix Series of 16 races for the ultra marathoner.

Both races (marathon run or relay) start at 7 a.m. Early registration is \$15 for the ultra-marathoner and \$50 for a four-person team. After Sept. 15, fees are \$20 per person and \$60 per team. All participants will receive a t-shirt.

For a registration form, or for

additional information, call the Lake Isabella Chamber of Commerce at 379-5236 or write to Lake Isabella Chamber of Commerce, P.O. Box 567, Lake Isabella, CA 93240.



## Entry forms available for triathlon

It's time to begin training for the Mini Triathlon 1989, set for Saturday, Oct. 7, at the Officers' Pool and surrounding areas. Entry forms are now available at the Gymnasium Annex. Entry fees are \$15 per person.

Deadline for entry is Wednesday, Oct. 4; however, entries are so don't wait for the last minute limited to the first 96 contestants, to enter.

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# Summer's final Hunter Safety class is set for August 26, 27



Tuesday, Aug. 22, is the last day to sign up and register for the Hunter Safety Class being offered by the Sierra Desert Gun Club of Ridgecrest. This two-day school will be conducted on Saturday and Sunday, Aug. 26 and 27. The class will meet from 8 a.m. to 4 p.m. on both days.

All first-time purchasers of a California hunting license must first provide proof they have received training in firearms safety, sportsmanship and game management and conservation from a certified Hunter Safety instructor. Upon successful completion of such a training course, the student receives a validated Hunter's Safety Certificate which must be presented to the licensing agent when purchasing a California hunting license.

This school is open to all residents, over the age of 12 years, of the Indians Wells and Searles valleys and surrounding areas. It will

be taught by certified instructors of the Sierra Desert Gun Club at the club's rifle and pistol target range and clubhouse facilities on the Naval Weapons Center, China Lake. The class will involve approximately sixteen hours of classroom instruction, including a one-hour written final examination.

Advance registration and sign-up for the school is required, as the class will be limited to 50 students. Interested persons may register at the sign-up table set up in the lobby of the Ridgecrest Police Station on Saturday, Aug. 19, from 9 a.m. to 1 p.m., and on Tuesday, Aug. 22, from 7 to 9 p.m. A \$5 registration fee will be collected at sign-ups.

This will be the last of the two Hunter Safety classes this summer conducted by the Sierra Desert Gun Club to provide new hunters in the area the opportunity to earn a California Hunter's Safety Certificate.

## Property must be retrieved

Morale, Welfare & Recreation, Sports staff, is urging all patrons to please pick up their personal belongings left in the lockers prior to the gym closing before Sept. 30. After this date, personnel will dispose of unclaimed items.

For more information, call NWC ext. 6542.

### Wear seat belts!

Most collisions occur under 40 mph and within a distance of 25 miles of home. This is everyday driving -- to the store, the school, a friend's house. Wear your seat belt!

## Hunting rule changes Certificate required

For California hunters 40 years of age and younger, hunting in Colorado after 1990 will require a little more paperwork.

As of Jan. 1, 1991, Colorado will no longer accept California hunting licenses as proof of Hunter Education training for anyone born on or after Jan. 1, 1949. Colorado state fish and game officials will accept only valid state, provincial or international Hunter Education cards or certificates, issued for the com-

pletion of such courses, as proof of out-of-state hunters' eligibility to hunt there.

The Sierra Desert Gun Club of Ridgecrest is holding a Hunter Safety Class later this month. For more information on this class, read the pertaining article in this issue.

For other information on California DFG hunter safety classes, contact Jack Edwards, hunter training coordinator, at (916) 324-7244.

## Deer hunters watch new video on sport

Combining forces, the American Association of Meat Processors, Pennsylvania Game Commission and Pennsylvania State University have produced the "Deer Hunter's Manual," a 90-minute video that takes hunters through the rigors of hunting and properly caring for downed venison.

The tape, available only in VHS format, highlights hunting safety, proper equipment, field dressing, skinning and deboning techniques, as well as butchering

and cutting methods to a quality epicurean feast. The production also features basic tips from game officials and meat experts and should benefit both novice and veteran hunter alike.

"Deer Hunter's Manual" may be purchased for \$29.95 (including shipping) through the American Association of Meat Processors, P.O. Box 269, Elizabethtown, PA 17022. AAMP can be reached at (717) 367-1168 and is filling requests in the order they are received.



## Players can still register for Fall Youth Baseball

Additional spots are still available in the Fall Instructional Youth Baseball League, announced Rick Booth, organizer of the event. While there are enough sign ups to proceed with the league, Booth noted he wanted everyone to have a chance to be able to play ball this Fall. Therefore, another sign-up/tryout session is planned for Saturday, from 10 a.m. to 1 p.m. at the baseball field closest to the Credit Union on base.

"We had many favorable comments about the Fall league," Booth said. "There are many kids out there that would rather play baseball than other sports."

According to Booth, quite a few returning players tried out, as well as a number of youth who decided this would be a good time to see if they would enjoy playing in the regular league.

The league will consist of youth who will be 9

years of age up to 14 years of age by July 1990. There will be four teams per division, with a maximum of 15 players per team. As soon as the maximum number of players has been reached, sign ups will close.

Cost for the Fall league is \$20 per player and must be paid at the time of sign ups and tryouts. Youth wanting to play ball this Fall must try out, regardless of past experience. Teams will be chosen by the player distribution system. Teams will be formed on Sunday and announced to the ball players the following week. The first game is set for Saturday, Sept. 9. The season ends Nov. 19.

If attendance at the tryouts is not possible, further information is required, or if you know someone who is on vacation and would like to play, please call Booth at 375-3309 or Dalton Mann at 375-5664.

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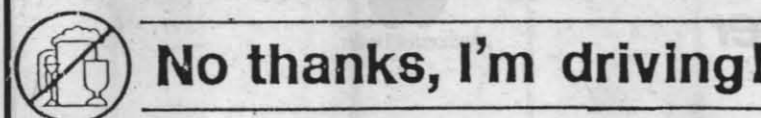
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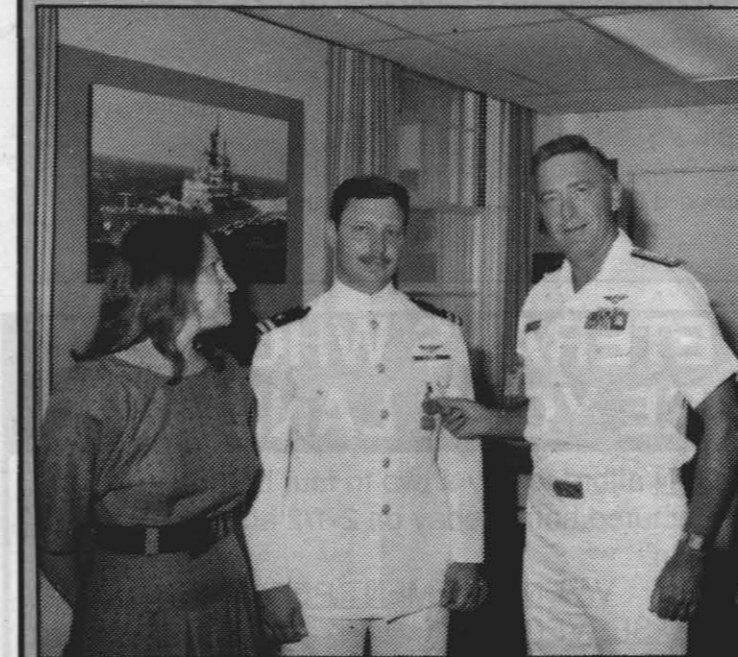
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## Officers saluted by presentation of Navy Achievement Medals



**PROFESSIONALISM EARNS MEDALS**--RAdm. Strohsahl, Commander of the Pacific Missile Test Center at Pt. Mugu, pins the Navy Achievement Medal on Lt. John Brookes in the top photo, while Lt. Jim Krise (bottom photo) receives his medal from the Admiral while his wife, Eleanor, looks on. The presentations were made during a recent visit by RAdm. Strohsahl. Photo by PHAN Cary Brady.



Rear Admiral Strohsahl, Commander, Pacific Missile Test Center, presented two Navy Achievement Medals during his recent visit to NWC.

Recognized for their actions as helicopter pilots during a difficult and dangerous aircraft wreckage recovery at a remote crash site, Lt. John Brookes and Lt. Jim Krise each received the prestigious medal.

RAdm. Strohsahl cited the pair's "great aeronautical skill" in his citation letter. "They overcame the singularly imposing combination of challenges presented by the inhospitable steep mountain terrain, high density altitude, gusty winds and restricted rotor clearances in the high desert ravines," said RAdm. Strohsahl.

"Their personal combination of persistence and safety awareness were key factors in the safe and expeditious completion of the mission," concluded the letter.

## Super sale scheduled Sunday at Navy Exchange

A one-day **Super Sunday Sale** at the Navy Exchange is set for Aug. 20 from 10 a.m. to 2 p.m.

Super values in all departments of the Exchange, Mini-

Mart and Garden Shop will be offered.

You will find additional savings off the already low prices.

Reduced red tag specials, clearances in all clothing depart-

ments and 35% off selected items throughout the store.

Stock up Sunday, Aug. 20 for savings at your Navy Exchange.

Doors open at 10 a.m.

## Desert Empire Fair tickets go on sale

CRAFTECH, arts and crafts center, is currently selling advance ride tickets for the Desert Empire Fair that will take place Sept. 6-10. Advance tickets are seven (7) for \$5. For further information, please phone 939-3252.



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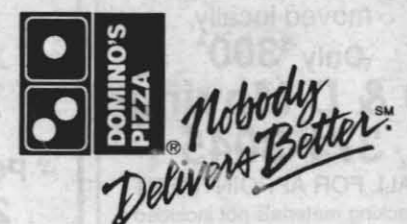
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# Youngsters learn to defeat heat



**YOUTH FUN**--These youngsters had a great time finding ways to beat the summer's heat at the Naval Weapons Center's new Youth Center. They discovered even the hottest day can be overcome by using enough water. The *Rocketeer's* staff photographer caught the young people off guard.

## Tonight's folk concert benefits area groups

Glen Yarbrough, well known for his 1965 hit: "Baby the Rain Must Fall," will return to China Lake after a three-year hiatus tonight at the NWC Theater at 7:30.

Tickets are \$10 general admission and \$8 senior citizens; all proceeds will go to the Women's Shelter Network and the Vietnam Veterans of America.

Tickets are available at the Women's Center Office at 815 E. Inyokern Road (near the NWC fire station) and will be sold at the door tonight.

The Women's Shelter Network, the only domestic violence agency between Lancaster and Reno this side of the mountains, will put its proceeds to good use. Recent legislation has cut back funding for the center by 35%; at the same time the Center has provided a 56% service increase in the last six months.

Diane Gratorotti, originator of the project, stated that: "If we do well with the fundraiser tonight, the money will go towards an educational program at the center or into the operating budget."

The idea behind the educational program is to inform and teach people about domestic violence and what is/is not acceptable in a healthy relationship.

According to Gratorotti, these informed people can then become better citizens and the cycle of accepting abuse leading to abusing others can be broken. She hastened to add "this show is purely entertainment with a very good cause behind it."

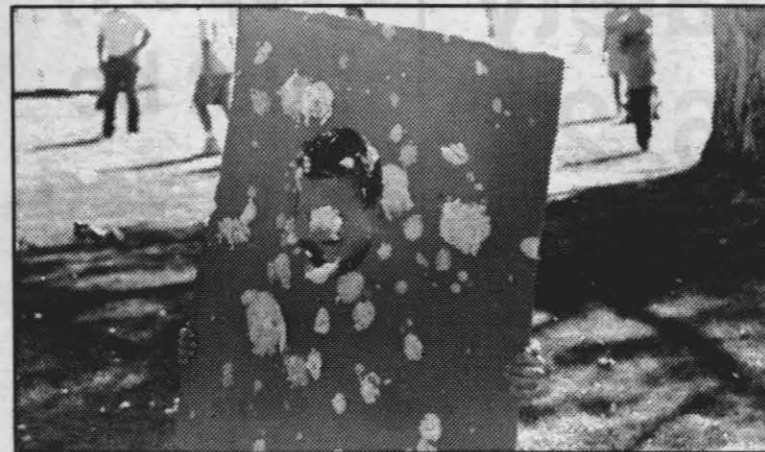
The Marine Aviation Detachment (MAD) will operate a concession stand before the performance and at intermission. MAD has consistently volunteered time and effort to the Shelter.

The Vietnam Veterans, who had the facilities and manpower to manage a program like this, were adamant about sharing the proceeds with the Women's Shelter, believing strongly in its efforts to break the domestic violence cycle present in one out of four marriages in America today.

For tickets to the concert or further information about the Women's Shelter Network, call 446-7491. The Hotline number for the center is 375-7525.

The Women's Shelter Network is a local United Way agency and is supported by Combined Federal Campaign (CFC) contributions.

# Cub Scouts do the 'mashed potato' war in summer



Day Camp for Cub Scouts may never be the same again! As the target (above) holds on to the board, friends pelt him with mashed potatoes. At right, Eugene Au and Nathan Mickelsen do a little make over with the mashed product and at far right, Nathan gets to try his skill on Zachary Sheffler. The youngsters, all members of the Bears seemed to have a good time and didn't even mind hamming it up a little for benefit of the *Rocketeer's* staff photographer during all of this.

Photos by PHAN Cary Brady



**USAF Test Pilot School schedules reunion this fall**  
 Edwards AFB--The U.S. Air Force Test Pilot School will hold a 45th anniversary reunion at Edwards Air Force Base Sept. 26-27; and all graduates of the school are invited to attend.  
 Graduates of the school interested in attending the reunion should contact Capt. Suzanne Komyathy, (805) 277-2764, and indicate the events they are interested in attending.

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