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For more Info Contact:



# NWC Rocketeer

Naval Weapons Center, China Lake, California 93555-6001

Vol. XLIV, No. 46/November 24, 1989

## Center mission conserves environment

China Lake ranges remain a treasure trove of cultural, wildlife and historic resources

"China Lake is a national treasure of prehistoric values," says Jerry Boggs, head of the Environmental Resources Management Branch in the Naval Weapons Center's Public Works Department. Boggs, a biologist by training, is responsible for a wide range of cultural, natural and wildlife resources at China Lake.

The more than one million acres of land covered by NWC is home to a large variety of flora and fauna including four species of animals considered endangered by the U.S. Fish and Wildlife Service and California Department of Fish and Game. Boggs and a small staff in the Center's

Public Works Department are tasked with preserving, as best they can, these precious resources for the future.

Boggs said the nature of NWC's mission makes it possible for the Center to remain this treasure storehouse of cultural and wildlife values unique to California's Mojave Desert region. "Our mission doesn't require a lot of surface impact and that's the saving grace for our cultural artifacts; we aren't churning up the ground with hundreds of tanks or other vehicles," he added.

"Our main job is support of the Center mission. We study areas proposed for project work to determine what kind of

resource values are present and then develop plans which mitigate damage to the resource or alternatives to a particular site before the work is cleared to go forward," commented Boggs.

NWC is required by the National Environmental Protection Act (NEPA) to conduct an environmental assessment of project work. Boggs noted Tom Campbell is the Center's environmental coordinator tasked with ensuring this coordination between projects and the environmental people. Commenting on the possibility of litigation if NWC fails to follow NEPA regulations, Boggs said, "It is imperative

people follow the procedures for environmental compliance."

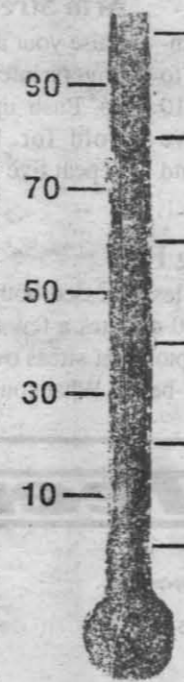
In working for preservation of cultural artifacts, Bill Eckhart and Meg McDonald are responsible for surveying work sites and recording finds of these resources. Boggs noted there are rock shelters, ancient village sites and remnants of tool making by ancient native Americans found throughout the Center's north ranges.

In addition, the Big and Little Petroglyph Canyons are "probably the finest collections of ancient rock art in the United States and possibly the entire North (Continued on Page 10)

### CFC effort exceeds expectations with \$255,000 from China Lakers

Showing the kind of support national and international non-profit organizations supported by generous gifts of the people. Last year, 32 percent of China Lake employees participated and pledged about \$200,000. This year the participation percentage was about the same, but employees were exceptionally generous.

Many organizations serving China Lakers, including the United Way of the Indian Wells Valley, will benefit from those who dug deep into their pockets to support the drive.



AWAY HE GOES--Dr. Tom McGill (left) of NWC's Environmental Division and two helicopter crew members looked on in 1983 as a young bighorn sheep bounded from its cage after being transplanted to NWC's north range area.



BIG WIG--Gerry Schiefer, former NWC technical director, accepts a license plate from Mike Biddlingmeier identifying Schiefer as DNL and "a former NWC big wig." (See added photos Pg. 8).

## NWC advances on cold fusion

Recent experiments conducted on "cold fusion" by three China Lakers have met with some success.

Dr. Melvin H. Miles, an employee of the Research Department's Chemistry Division, headed up the experiments. Helping in this research effort were Dr. Kwang H. Park and Dr. David E. Stilwell. Dr. Park is currently and Dr. Stilwell was previously working at NWC on post-doctoral fellowships awarded by the Ameri-

can Society for Engineering Education (ASEE). Dr. Stilwell has recently taken a job teaching at South Oregon College.

Cold fusion gained media prominence in March of this year when two chemists claimed to have achieved fusion at room temperature at the University of Utah with a simple laboratory experiment. Their experiment is basically the same one being conducted at NWC.

The experiment involves

wrapping a rod of palladium metal with a wire of platinum and putting the two electrodes into "heavy water" where the hydrogen atoms are twice as heavy in a form called deuterium. Electric current is then applied to both electrodes. Some deuterium ions may then fuse together to form heavy atoms. The fusion products are still a matter of considerable controversy. Helium 4 has been theorized but experimental

(Continued on Page 6)

# China Lake Calendar

**Tues. Nov 28**  
...China Lake Ski Club membership party, 7 p.m., Club Oasis, free refreshments and ski videos; call 371-3003 for information.

**Wed. Nov 29**  
...IWVCA presents AMAN International Music and Dance Ensemble, 7:30 p.m., NWC Theater

**Thurs. Nov 30**  
...Government Surplus Auction, 9:30 a.m., Building 1073, Warehouse 41

**Sat. Dec. 2**  
...20th Annual Children's Christmas Parade, 10 a.m.

**Fri. Dec. 8**  
...Last day of the Health Benefits Open Season

**Tues. Dec. 12**  
...Michelson Laboratory Award Luncheon, 11:30 a.m., Commissioned Officers' Mess

**Wed. Dec. 13**  
...Holiday Traffic Safety Seminar, featuring Sgt. Jack Ware, 2 p.m., Center Theatre

**Sat. Dec. 16**  
...Magic Show, 2 p.m., Center Theatre

**Coming attractions:**  
Dec. 31-Jan. 1 -- Happy New Years Slumber Party, 8 p.m. to 8 a.m., NWC Youth Center  
Jan. 3-4--Safety Standdown, Center Theatre  
Dec. 2--20th Annual Children's Christmas Parade  
Dec. 16--Magic Show, Center Theatre

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

## Engineer's sign slogan welcomes valley visitors

David Belt, an electrical engineer in the Missile Systems Division, Intercept Weapons Department, and his wife, Penny, submitted the winning billboard slogan in the recently held Ridgecrest Chamber of Commerce Sign Slogan Contest. The new slogan for the billboard introducing Ridgecrest on Highway 14 is *Discover Ridgecrest. The High Desert's Best Kept Secret.*

According to the Ridgecrest Chamber of Commerce Board of Directors, an overwhelming number of excellent slogans were submitted.

By submitting the winning slogan, the Belts won a weekend for two in San Diego, featuring a two-night stay at Atlas' Hanalei Hotel, dinner for two and a Sunday champagne brunch.

## Wellness Corner

Physical exercise is a quick, easy way to relieve stress-related tension. Vigorous aerobic exercise has been shown to increase your body's levels of endorphins (a natural sedative) and catecholamines (substances that affect moods). Stretching exercises also reduce stress by relaxing tense muscles -- one of the most common stress responses.

### Fight Stress With Aerobics

Aerobic exercise strengthens our hearts and lungs and improves our overall use of oxygen. Activities such as fitness walking, jogging, swimming, cycling and rowing are excellent aerobic choices. Besides causing chemical changes in the brain that may improve moods, exercising regularly can create a sense of commitment and control, which in itself can improve our mental attitudes and self-images. Many people find that vigorous morning workouts give them a better start on the day. Other people prefer to exercise at the end of their day to help them "unwind" and release pent-up tension. Exercising in the morning or evening is not as important, however, as exercising regularly. Twenty to thirty minutes of aerobics, done three times a week not only benefits your heart, but your peace of mind, too.

### Fight Stress With Stretching

When you are under stress, your muscles become tense. When you relax, so do your muscles. Stretching exercises like those shown here can mimic your body's "relaxation" response by helping loosen up tight muscles and relieving tension. These stretches are easy to do, take only a few minutes, and can be done anytime, anywhere, by almost anyone!



### Head and Neck Roll

Relax your shoulders and let your head drop to one side, reaching your ear to your shoulder. Slowly let your head roll forward, chin to chest. Continue rolling head to other side. Roll your head from side to side 10 times. Don't let your head roll to the back.



### Back Stretch

Lie as shown keeping your knees bent and feet flat on the floor. Hold for 10 seconds. Relax. Repeat five times.



### Leg Stretch

Position yourself as shown. Gently lower your torso as close to the floor as you can. Hold for 10 seconds. Relax. Repeat five times, switch leg positions, and repeat again.



### Arm Stretch

Raise your arms above your head, fingers interlaced, palms facing up. Push up as far as you can. Hold for 10 seconds. Relax. Repeat five times.

### Less Stressed and Feeling Fine

Exercise can make you feel less stressed both physically and mentally. By setting aside just 20-30 minutes a few days a week for exercising, you can reduce the symptoms of stress overload while improving your overall health and well-being. What could be finer?



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**Take your heart to court.**  
Exercise serves you right.

**American Heart Association**



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Ads up to 5 lines.....	\$3.00
Ads up to 10 lines.....	\$5.50
Ads up to 15 lines.....	\$8.00
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**

**5 LOST & FOUND**  
LOST: 1yr. old pure bred Boston Terrier. Recently spayed, black & white. Answers to the name of Molly. Call 446-6005.

**15 HELP WANTED**  
BURGER KING is hiring, Openers, Cashiers, Closer. Apply in person. 139 N. China Lake Blvd.

**SOCIAL SERVICE PRACTITIONER**  
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DEPARTMENT OF HUMAN SERVICES  
Requires M.S.W. for Level I: MSW plus two years of Social Work experience for Level II. Immediate openings. Bi-lingual Spanish speaking encouraged to apply. Salary: Level I: \$2359-2879; Level II: \$2529-3088 monthly. Apply immediately: Dori Ross, Personnel Analyst, Kern County Personnel Department, 1120 Golden State Avenue, Bakersfield, Ca. 93301. 805-861-2195.

**20 RENTALS**  
2 BDRM, 1 BATH, W/D HOOK-UPS, stove, refrig., garage. \$475 + deposit. Call 371-3078.

**30 SERVICES**  
4 OPENINGS - QUALITY DAY CARE available. Hot meals & snacks. Plenty of activities. FHC certified. 446-4288 or 371-8594.

**AFFORDABLE CHILDCARE** - Available most hours. Lots of openings. Not licensed. Call 446-3535.

**30 SERVICES**  
ASPECT WINDOW TINTING - Commercial, residential, autos & specials. Liscensed. 371-2511.

**FROM SANTA'S PEN** - Beautiful greeting in Calligraphy. Full-color with North Pole Postmark. Send \$2 for each name. Also include age to - 1539 N. China Lake Blvd., Suite 146, Ridgecrest, Ca. 93555 (Naughty or Nice opt.)

**HAVING TROUBLE** picking the perfect gift for that special someone? We offer a gift that allows the recipients to choose what they want. Through Dec. 1st we're offering giftbooklets ranging from \$9.99 to \$500 (plus tax). Each booklet has several gifts to choose from and a pre-paid mailer. To see samples or to place an order, call DEE at 375-1573, or NOEL at 375-9123, or ROB at 375-5256.

**WOULD YOU LIKE A FRESH**, 6-foot Scotch-Pine Christmas tree delivered to your house NLT Dec. 15th? For \$47.00 you will get a guaranteed fresh tree delivered to your door in a box, ready to set up. It even comes with a disposal bag so you won't get pine needles all over your house. For information about ordering, call Dee at 375-1573, or Noel at 375-9123, or Rob at 375-5256. Happy Holidays!

**35 AUTOMOTIVE**  
MINI STOCK RACE CAR - '66 Volkswagen, race ready. Includes 2080cc motor, dual port, dual carbs, extra tires, lots of spare parts & trailer. \$2000 - Call Wally for details. 375-6885.

**35 AUTOMOTIVE**  
1964 VOLKSWAGEN BAJA BUG CORVETTE - Yellow & Gaber Blue, 1-piece fiberglass hood, full roll cage front to back. Quick shift kit, rebuilt 1600cc, dual port, dual carb., new tires & brakes. 1-piece Cal. look windows. Have extra 1600cc, single port w/progressive carb. & extra parts. \$2000 - Call Wally 375-6885.

1984 HONDA SABRE V-65, 1100cc, new in 1986. 12,000 mi., very fast, mint cond., shaft drive, maintenance manual. \$2100. Call 446-4843.

1984 XR 500R - \$1000. CALL AFTER 5PM, 446-3061.

1985 HONDA CR125R, xlnt. shape - \$1000/OBO. Call 446-4408.

1986 Z28 CAMARO - LOADED, low miles - \$9000/OBO. Call Bob at 446-4399.

FOR SALE: 1989 CHEVY 1/2 ton extended cab pickup. Call 375-7466.

**40 MISC. FOR SALE**  
WOOD SHEDS - 6x4 w/floor - \$55; 8x8 - \$128; delivery and assembly available. Call 375-5896.

**QUEEN SIZE 4-Poster bed** w/mattress/box springs, beautiful cond. - \$200; Sears bathtub Jacuzzi - \$50; Kenmore sewing machine - \$30; Sansui 200watt stereo/reciever w/speakers - \$75; 10'x6'x4' chain link outdoor dog kennel - \$200. Call 446-4892.  
STORAGE SHEDS - HALF PRICE! 5x4 - \$49; 8x6 - \$69; 10x8 - \$89; 10x9 - \$119; 10x12 - \$189; 12x16 - \$429; 12x23 - \$519. Call 375-5896.

**40 MISC. FOR SALE**  
WEDDING DRESS FOR SALE: Practically new. Paid \$1000, asking \$450. Call 446-7866. Ask for Renee.  
TWIN BED, NEW CONDITION. \$60. Call 375-9528.

**45 GARAGE SALES**  
GARAGE SALE FRIDAY AFTER THANKSGIVING: 9am 'til 4pm. Some neat stuff. Some stupid stuff. Some junk. 310 Sandora (Cimmaron Gardens.)

**EASY**

They can't find your Garage Sale if you haven't advertised it! Find your way to EASY STREET with the ROCKETEER CLASSIFIEDS. Place your ad at The Daily Independent 739 N. China Lake Blvd.

**LOOKING FOR SOMETHING DIFFERENT, FOR SOMEONE SPECIAL?**

*Sand Carving by The Dawg & Boss Lady*

**TRY GLASS CARVINGS ON:**

- Wine Glasses
- Beer Steins
- Coffee Mugs
- Plates
- Crystal
- Mirrors

**This artwork is not to be confused with Liquid Etching.**

**JIM OR ANN MONAHAN**  
619-377-4704

## Community Events

Happy New Year! The Youth Center, Morale, Welfare & Recreation Division, is once again hosting the Happy New Year Party for children 6 to 12 years of age. The youngsters will enjoy great munchies, skating, bingo, air hockey, basketball, bumper pool and much, much more on Dec. 31 through Jan. 1 from 8 p.m. to 8 a.m. Register now for a great time! There will be a mandatory sleep time from 1 to 6 a.m. Cost is \$10 for military dependents, \$12 for DoD dependents and \$14 for dependents of private citizens. For reservations or further information, call NWC ext. 2909.

Each Friday evening enjoy No Tap bowling at Hall Lanes. Separate prize funds for men and women. Prize pay off is 1 in 5. Tickets for a side prize pot are \$.25 each or 5 for \$1. Entry fees are \$6 for entry, lineage \$3 and prize fund \$3. Come and join the fun each Friday evening at 6 p.m. at Hall Memorial Lanes. For further information, NWC ext. 3471.

Plans for the 20th Annual Children's Christmas Parade are underway. The theme for this year's parade is "Christmas Yesterday, Today and Tomorrow". The parade will be held on Dec. 2 and will feature marching bands, colorful floats, automobiles and equestrian entries.

If you or your group would like to join in the fun, contact the Chamber office, 301 S. China Lake Blvd., or phone 375-8331.

Leo Nowak, well known western artist, will do a demonstration of a snow scene in oils for the Desert Art League on Monday, Nov. 27, at 7:30 p.m. in the Ridgcrest Senior Citizens Center. Nowak is known for brilliant skies, cloud formations, cowboys, indians, miners and other characters of the west.

Maturango Museum will have its annual Christmas Gift Shop Sale starting today and continuing through this Sunday. Gift Shop hours are 10 a.m. to 5 p.m. New T-shirts with museum logo and sweatshirts with shaman design are available. There are petroglyph molas made by the Kuna Indian women in many bright colors; petroglyph replica wall plaques; clocks and magnets are in and many other rock items; and 1990 calendars are out.

With the Bay Area earthquake fresh in the minds of Californians, the Antelope Valley Chapter of the American Red Cross is sponsoring a two-day course on Disaster Health Services. The sessions are set for Dec. 2-3 from 8:30 a.m. to 4 p.m. at 43445 N. 50th Street West, Quartz Hill. There is a \$25 fee for materials. For an additional \$12, 12 CEU credits are available. Registration is required by Nov. 27. Call (805) 948-4729 for additional information.

### AMAN dance scheduled

America's first and foremost International Music and Dance Ensemble, AMAN, is returning to China Lake on Wednesday, Nov. 29, at the Naval Weapons Center Theater.

Since their last performance here in 1982, the Indian Wells Valley Concert Association (IWVCA) has had many requests for a return engagement. The ensemble will perform a special Twenty-fifth Anniversary Concert of new works and some of the company's most spectacular suites beginning at 7:30 p.m.

AMAN is a professional company of 25 dancers, singers and musicians with a repertoire encompassing the folk music and dance of over 40 cultural groups from five continents. Wednesday's program will span 17 cultures drawn from Eastern Europe,

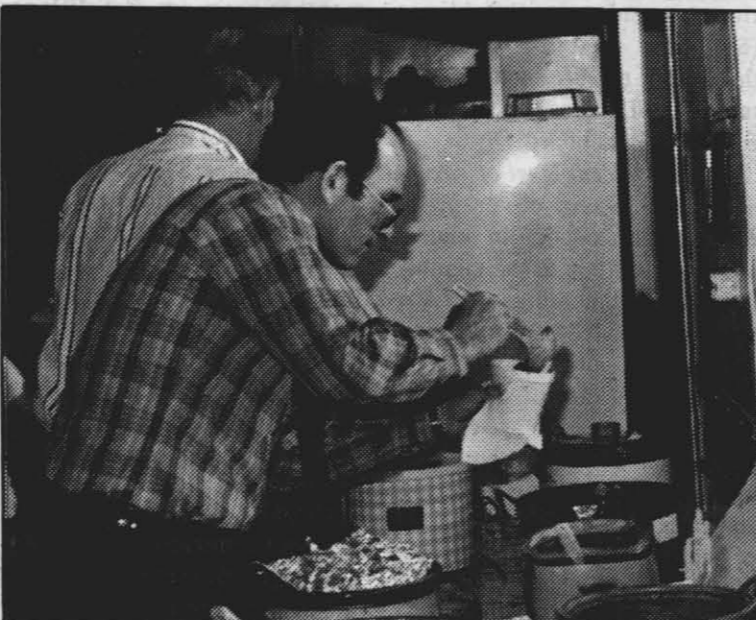
Asia, North Africa, Ireland, Canada and the United States. Lavish, colorful costumes and authentic ethnic instruments are used throughout the program.

The second of a six concert series for the IWVCA 1989-90 season, this engagement is supported, in part, by the California Arts Council and the National Endowment for the Arts.

Tickets for AMAN can be purchased in advance at The Music Man, The Maturango Museum, The Art Buffet and Richer's Digital Audio for \$8 (\$6 for persons over 65, under 21, and active duty enlisted military personnel). Some seating may be available at the theater box office after 4:45 p.m. the evening of the concert. Season ticket holders who do not plan to attend are encouraged to release their seats for resale.

## Hot stuff big hit in chile cookoff

Last Wednesday the Public Works Department and Pan Am Services joined forces for their second annual chile cookoff.



**CHILE COOKOFF--Jerry Stein, Public Works head of staff, sampled chile last Wednesday.**

More than a dozen entrants competed for the top three slots. When it was all over, Lydia Gomez of Pan Am took the third place "City Slicker" plaque; Randy Mattison of the Procurement Department burned up the competition to win the second place "Flame Thrower" award; and first place "Desert Delight" award went to Ken Freund of the PW Facilities Planning Division.

In conjunction with the cook-off, tickets were raffled to win a "boss for a day." Twenty-five PW and Pan Am supervisors volunteered their labor for four hours--doing the job of the employee who won them in the raffle. Watch for photos of the supervisors in action in a future edition of the *Rocketeer*.

The event was the last money-maker of the year for the PW/Pan Am recreation committee. Chairman Amy Thompson was pleased with the turnout--all the chile was gone within 40 minutes of judging.

### SATO Leisure Travel's Someplace Warm contest

Don't miss the "Someplace Warm Sweepstakes Promotion" being sponsored by Sato Leisure Travel. The Grand Prize for the no-purchase-necessary drawing is a Caribbean Cruise. First prize is a Florida vacation for two and second is airfare to anywhere in the U.S. The drawing will be held and announced in January. To enter, simply fill out the entry form at Sato Leisure Travel, Bldg. 21, Blandy Ave. For more information, call 446-7751/52.



	Max	Min	Gusts
Thurs.	75	34	6 knots
Fri.	77	32	7 knots
Sat.	77	42	6 knots
Sun.	80	31	6 knots
Mon.	75	34	5 knots
Tues.	80	33	4 knots

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Every Tuesday is Military Day at Coast to Coast. Show your brown, green or grey Military I.D. card and get 10% off!

## Coast to Coast®

824 W. Ridgcrest Blvd. 375-5035



**EARLY TURKEY--Sailors and others working around NWC's Hangar Three got an early Thanksgiving dinner with a big helping hand from Hangar Three secretaries who organized the dinner and provided the food. Division officers and chiefs joined in serving the food during Monday's lunch hour at Armitage Field.** Photo by PHAN Cary Brady

## Out after 23 for W. Goodman

Following 23 years of proud and honorable service to his country, Senior Chief Willie M. Goodman retired from active duty in the U.S. Navy on November 7.

Capt. Robert Dropp, commanding officer of enlisted personnel at the Naval Weapons Center, performed the ceremony transferring Goodman to the ranks of the Fleet Reserve. The aviation structural mechanic was accompanied by his wife, Willa, as he was piped over the side into civilian life. The couple will remain in the Ridgcrest area where Goodman will work for an NWC contractor. During his career, Chief Goodman served with the Naval Training Center in Illinois, a long line of squadrons, and on-board the *USS Belleau Wood* before reporting for duty at China Lake in August of 1986.

His decorations and awards include a Navy Commendation Medal, three Navy Achievement Medals, and numerous other personal and unit citations.

Chief Goodman spent his first 10 months at NWC as the Night Shift Maintenance Control Chief Petty Officer (CPO) before being assigned as the Avionics Division CPO/Division Officer for the Organizational Maintenance Branch in the Aircraft Department.

In his letter of appreciation to Goodman, Capt. Dropp complimented his outstanding leadership, positive attitude, dedication, and performance.

"Your managerial skills in personnel improvement for the Avionics Division have greatly enhanced the Aircraft Department's ability to meet its goals," he stated. Furthermore "Your execution of principles of management have contributed greatly to the overall mission of the Naval Weapons Center."

The commanding officer added his wish, along with those of Goodman's shipmates, for "smooth sailing, fair winds, and following seas."



**CAREER ENDS-- With family and friends looking on, Master Chief Goodman accepts retirement papers from Capt. Robert Dropp.**

### Mail early to guarantee timely holiday deliveries

The key to successful holiday mailing is to mail early and correctly. Persons sending cards and mailing packages overseas from the continental United States should mail them as soon as possible, but by sure by December 1.

Similarly, to make sure that mail arrives on time into the continental United States from overseas locations, mailed items should arrive at United States



## The Skipper Sez...

### QUESTION

I am a civilian employee as well as a dependent. My question concerns the procedures for getting repairs on base housing. We naively gave PW permission to enter to do minor repairs on our quarters. The workers left no notice that they had been there. We did not realize the repairs were complete until we had to call again for other repairs. I recently called in to the trouble desk to have a window shade repaired. Upon taking my name and address, the person taking my request asked if there was permission to enter. I asked her did this mean that the contractor would enter my quarters if no one was home. Her reply was yes, that this was standard procedure. When I denied the permission to enter request, I was informed that the work will be delayed because of my denial. We do not feel it very safe or wise to have strangers in our home when we are not there. Can this procedure be modified so if we are not at home during the normal working hours that the necessary work be done after hours by the night crew or can we be notified by phone when the contractor is ready to do the repairs and we can meet them at the quarters? Also, if it becomes absolutely necessary for the contractors to enter quarters when no one is at home, can they be required to leave some kind of notice that they have been there with, for instance, the time of arrival and departure and the name of the employee(s) that were there?

### ANSWER

Although housing repairs are done by Pan American World Services, the "permission to enter" system has been used on the Center for many years. Whether entry has been by Public Works employees or contractor personnel, extremely few instances of damage or loss of tenant possessions have occurred over the years. Very close controls on scheduling allow us to determine exactly which contractor personnel were in any given unit at any time. This information is actually used to determine costs and verify job completion, but also acts as a deterrent to the kind of abuses your question infers.

When a tenant does not wish to give permission to enter, an appointment is made to have the work done. There is no significant difference between a call made on appointment or with permission to enter, except in the case where a serviceman completes a job earlier than expected. In this instance, the next permission to enter call would be done faster than originally scheduled.

There are no special night crews that perform scheduled work. Servicemen are on call to perform only emergency repairs after hours.

The contractor does leave notice of having been at the job site. This is in the form of a quality control checkoff list to be completed by the tenant.

While I agree these are difficult times in terms of trusting strangers, I have opened my home on a permission to enter basis and it works. We strive to give tenants the best facilities and services available, and routinely perform many minor repairs and adjustments that tenants in commercial environments are expected to do themselves. Despite the fact this is government housing, there exists the same tenant/landlord relationship where unreasonable expectations of either result in dissatisfaction rather than mutual needs being met.

- gateway points by December 11.
- Parcels will arrive at their intended destinations in good shape if you follow guidelines: Make sure contents are well-cushioned and there is no empty space in the box. Use crumpled newspaper around the sides, top and bottom of the item.
- Don't overwrap. Just use your carton. Brown paper can rip, and twine can become entangled in
- mail-processing equipment.
- Seal properly. There are three recommended kinds of tape--pressure-sensitive, nylon-reinforced kraft paper and glass-reinforced pressure-sensitive.
- Position addresses correctly. Put the recipient's address in the lower right portion of the package, your return address in the upper left corner.
- Use ZIP codes.



**UNIFORM INSPECTION**  
**Capt. Frederick G. Sanford, CO of the Long Beach Naval Hospital conducted a uniform inspection of NWC Branch Medical Clinic personnel during a visit here on Monday. The inspection was a review of the newly required winter uniform for military personnel at China Lake.**  
 Photo by PHAN Cary Brady



**Divine Services**

<b>Protestant</b>	
Sunday Worship Service, East Wing	8:00 a.m.
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	6:30 a.m.
Officers' Christian Fellowship/Christian Military Fellowships, East Wing, Thursday	7:00 p.m.
<b>Islamic</b>	
Jumaa Prayer (Friday in Annex 4)	12:00 noon
<b>Roman Catholic</b>	
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.
<b>Jewish</b>	
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.

Chaplain S. A. Casimano, LCDR, CHC, USN  
 Chaplain G. L. Goodman, LT, CHC, USNR  
 Chaplain G. E. Williams, LT, CHC, USNR  
 Brian H. Zimmerman, Student Rabbi  
 Hearing Impaired Equipment, Nursery Available

**Pediatrician set to visit Center**

On Thursday and Friday, Dec. 21 - 22, the pediatrician from Naval Hospital Long Beach will be on Center and available for appointments. For further information and to make appointments, contact Jeannette Seale at the Branch Medical Clinic, NWC extension 2911/253.

**Normal bond sales operations resume after suspension**

According to LeeAnn Riddoch, head of the NWC Comptroller's Customer Services Division, sales of all U.S. Series EE Savings Bonds were suspended on 6 November. The U.S. debt ceiling has been raised since that time and normal bond operations have been resumed as of November 8. The suspension of bond sales had no effect on bond interest payments. If you have questions about your savings bonds, please call the Payroll Branch at NWC ext. 2121.



**"Gratitude"**

It was a stormy, autumn night in 1860; and the waters of Lake Michigan were rough. Edward Spencer was walking along the shoreline and saw the tragedy happen.

A crowded steamboat, The Lady Elgin, was rammed by a freighter loaded with lumber. Within minutes, 393 passengers were thrashing in water as the steamboat broke up and sank a mile offshore.

The nearest help was in the small village of Winnetha, Illinois. Few boats would be available, Spencer plunged in and swam toward the survivors. In seventeen desperate trips, he managed to save seventeen persons. Even then, 279 others died.

The young man was acclaimed a national hero, but he never recovered from the shock. Spencer was unable to resume his studies at Northwestern University and was instead admitted to an asylum. He kept asking, "Did I do my best?"

A few years later, Spencer, by then an invalid confined to a wheel chair, was contacted by the editor of a Chicago newspaper. The alert journalist had uncovered some old files of the original story and wondered about a follow-up on the now forgotten hero.

A reporter was sent to interview Spencer on his birthday. What was his most vivid memory of that fateful night?

Spencer sadly replied that not one of the seventeen persons he saved ever returned to thank him!

As we celebrate Thanksgiving, let's not forget to take time to thank God for our families, our great country and His love that was given, through His son, that whoever believes in Him should not perish, but have eternal life.

By **Chaplain G. L. Goodman, LT, CHC, USNR**

**Thanksgiving Day Message for the Armed Forces 1989**

On Thanksgiving Day, we pause with our families, friends, and neighbors to give thanks to God for the many gifts He has bestowed upon us. We are also mindful of the many brave and selfless individuals who have struggled and sacrificed to build this great nation.

When they observed Thanksgiving in the autumn of 1621, the Pilgrims at Plymouth Colony gave thanks for a fine harvest following a long and bitter winter. They also gave thanks for the political and religious freedom they had gained in their new land. The indomitable spirit of these hardy people, sustained by faith and rooted in a deep sense of community, has remained a hallmark of the American character.

Today, our hearts are full of gratitude for the continued blessings of peace and prosperity. This Thanksgiving, we Americans have additional reason to rejoice, for 'Freedom's holy light' has begun to pierce the Iron Curtain, bringing the hope of a new day to countries in Eastern Europe and around the world.

Our Nation is deeply indebted to you, the members of the United States Armed Forces, for your role in ensuring our safety and advancing the universal cause of freedom. Your willingness to accept hardship and sacrifice for the sake of others has won the respect and gratitude of all Americans. So, on this day dedicated to giving thanks to our Creator, the loving Source of all life and liberty, we also remember each one of you with appreciation and with pride.

On behalf of our fellow citizens, Barbara and I send you our heartfelt thanks and warmest wishes for a Happy Thanksgiving. God bless you, and God bless the United States of America.

*Gay Bush*  
 George Bush  
 President

**Employees retiring early will pay life insurance premiums**

Beginning on Jan. 1, federal employees who retire before age 65 and elect to retain their Basic Life Insurance coverage will be required to pay premiums for this coverage after retirement. These premium payments will be withheld from annuities of retirees from date of retirement until they reach age 65.

Free coverage between retirement and age 65 will continue for those employees who retire before Jan. 1. For the purpose of meeting the free coverage provision, actual separation for retirement must be before Jan. 1, or annuity must commence before Jan. 1.

Employees under age 65 who retire on or after Jan. 1 will have an opportunity to elect one of three levels of post-retirement Basic Life Insurance coverage. Regardless of the level of coverage elected (either 1, 2 or 3 below), the same amount of Basic Life premium paid as an employee (currently \$.401 monthly per \$1,000 of Basic coverage) will be withheld from annuity payments until age 65.

1. *Minimum level of coverage.* Full Basic coverage until age 65. At that point, premium withholdings stop and the insurance begins to reduce at the rate of two percent per month until it reaches 25 percent of the original value.

2. *50 percent level of coverage.* Full Basic coverage until age 65, and then reduces at the rate of one percent per month until it reaches 50 percent of original value. In addition to the monthly premium withholdings of \$.401 per \$1,000 of Basic coverage, further premium withholdings (at the monthly rate of \$.52 per \$1,000 of Basic coverage cur-

**Aetna stops its benefits**

Effective Jan. 1, AETNA will no longer offer its indemnity benefit plan to federal employees and annuitants.

The present AETNA indemnity benefit plan (both options) will remain in effect through 1989. Enrollees will have through 1990 to file claims for expenses incurred in 1989.

Employees that are enrolled in the indemnity benefit plan will need to enroll in another plan during open season (Nov. 13 through Dec. 8).

rently) begin at retirement. The \$.401 per \$1,000 premium withholdings stop at age 65; the additional premium withholdings (\$.52 per \$1,000) continue throughout the life of the annuitant or until the insurance is cancelled or discontinued.

3. *100 percent level of coverage.* Full Basic coverage is retained; no reduction in original value. In addition to the monthly premium withholdings of \$.401 per \$1,000 of Basic coverage, further premium withholdings (at the monthly rate of \$1.69 per \$1,000 of Basic coverage currently) begin at retirement. The amount of the Basic coverage stays at the full value for the life of the annuitant. The \$.401 per \$1,000 premium withholdings stop at age 65; the additional premium withholdings (\$1.69 per \$1,000) continue for life or until the insurance is cancelled or discontinued.

Employees over age 65 who retire on or after Jan. 1 will have the same opportunity to elect one of the three levels of coverage noted above. For these individuals, Basic Life premium withholdings stop and the reductions specified in items one or two above begin immediately upon retirement. Of course, the additional premium withholdings will be required if either the 50 percent or No Reduction level of coverage is elected.

In summary, all employees

who retire on or after Jan. 1 and elect to continue Basic coverage into retirement must pay a monthly premium of \$.401 per \$1,000 until age 65. Those who elect one of the high levels of coverage after age 65 (items two or three above) must pay not only the \$.401 per \$1,000 premium but also the additional premium for the extra post-65 protection (either \$.52 or \$1.69 per \$1,000). Both premium withholdings start at date of retirement; the \$.401 per \$1,000 withholdings stop at age 65, but the \$.52 or \$1.69 per \$1,000 withholdings continue for life or until cancellation or discontinuation of coverage.

Regardless of date of retirement (before or after Jan. 1), employees who wish to continue any of the optional insurance coverages into retirement must, as a prerequisite, continue Basic coverage. Those individuals who retire on or after Jan. 1 must pay the \$.401 per \$1,000 premium in order to continue the Basic coverage, unless they are over age 65. Detailed information about continuing Option A - Standard, Option B - Additional, and Option C - Family coverages can be found on Page 5 of the Life Insurance Booklet (SF 2817-A). Each employee should have received a new booklet in 1988. If you do not have one, or need additional information, contact your personnel management advisor (PMA).

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**Annual leave hours needed**

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.

- Melody (Reymond) Miller, Budget Analyst, Code 2836.
- Beverly Parsons, Purchasing Agent, Code 257.
- George Petty, Physicist, Code 3924.
- Polly Bainbridge, Secretary, Code 3922.
- Kimberly Sorensen, Secretary, Code 2842.
- Mary Eddins, Configuration Manager, Code 2732.
- William Eastman, Clerk Typist, Code 2851.
- Debra Campbell, Administrative Assistant, Code 2803.
- Mike Mason, Mechanical Engineering Technician, Code 3526.
- Michael Phillips, Student Trainee (Computer Scientist), Code 2803.
- Robert R. Huntley, Program Manager, Code 35A1.
- Betty Cirotski, Procurement Assistant, Code 31B1.
- Satik Martinsen, Management Assistant, Code 36402.
- Karen Muphy, Chemical Engineer, Code 3626.

**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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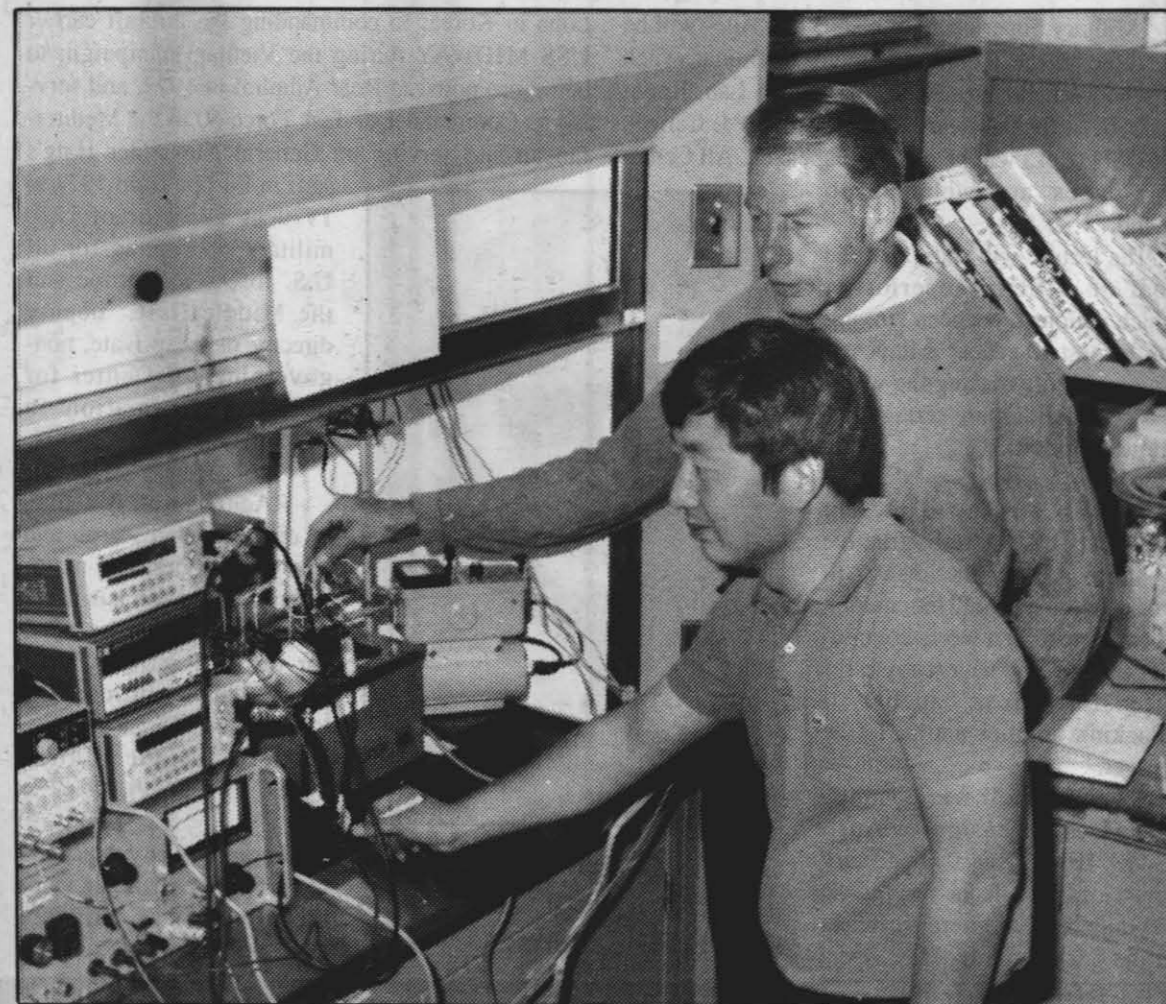
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# Center researchers eye cold fusion efforts



**COLD FUSION**—Dr. Melvin Miles of the Naval Weapons Center's Research Department and Dr. Kwang Park (left) look over their experiment in cold fusion research. The work at China Lake has produced excess heat as have similar experiments around the world. Photo by PHAN Cary Brady

(Continued from Page 1)  
proof is lacking. Helium 4 could also breakdown and form tritium by releasing a neutron.

The NWC researchers began experiments in March after the news of fusion hit the headlines. They didn't get excess energy until they recently switched from a thin electrode to a thicker model (the same type used by the original researchers in March). After six days with the new electrode they began getting excess heat which averaged 18% and lasted nine days. Dr. Miles believes the excess heat might have happened as a result of the "thicker palladium rod, or tighter wrapped coils of platinum. Keeping the palladium completely immersed in the heavy water may also be an important factor."

Scientists, including NWC researchers, still are uncertain of exactly what causes the excess heat. Common theories include a new and unexplained chemical reaction or nuclear reactions may be at work. Scientists say it merits more research to find out this phenomenon.

Researchers at NWC will continue to pursue answers through a part time fusion funding through the SDI program. Some theories Dr. Miles would like to pursue include trying higher current densities, analyzing the experiment for tritium (an isotope that could indicate fusion), or adding "poison" to influence electrode reaction to create a higher energy potential—all of which would be done in the hopes of developing more heat from the experiment process than is currently being produced.

Dr. Miles believes "this is a long way from being a practical energy process, if ever." Evidence of some sort of new reaction seems to be more persuasive now than at the time of the first paper, with twenty laboratories having produced excess heat with their experiments of a similar nature.

If fusion does prove a useful energy source, "It could be the answer to most energy problems," said Dr. Miles. "There is an ample supply of deuterium, the fuel for fusion, in ocean water."

By PHAN Cary Brady

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# Personnel news & notes

(Continued from Page 14)

the Center's newly established composites program. Production engineering services includes producibility and inspectability, production readiness reviews, production processes, evaluation of contractor facilities and manufactured hardware, electronic and dimensional metrology services, and microelectronic support services. The prototype fabrication services of the division include custom and integrated circuits, and extensive machining and metal model shops in Michelson Lab, NAF, Salt Wells, and EWTES. Quality control services support the shops and vendor manufactured hardware. The division also provides contractor services for NWC for machine tool and electronic maintenance. The division operates primarily as a service center. There are three service centers and a cost center budget. The service centers require the division to operate as a small business and have several data bases to provide the management information required to verify operations and schedules. To accomplish the duties and responsibilities of this position, the incumbent must direct a large and diversified work force including a variety of engineering disciplines, technical specialists, technicians, model makers, machinists, and inspectors. The division has approximately 150 personnel and organizationally has nine branches and four technical offices. **Job Relevant Criteria:** Knowledge of the service center budget process; knowledge of and a willingness to support NWC EEO policies; knowledge of DoD contracting procedures; knowledge of and an understanding of the materials acquisition process; knowledge of materials, production, metrology, composites, electronic and mechanical prototype fabrication processes, and production support; ability to supervise and manage a large and diversified work force through subordinate supervisors. Incumbent may be required to serve a one-year supervisory probationary period. Previous applicants need not reapply.

**No. 62-074, Electronics Technician, DT-856-1/2/3, Code 62544, Multiple Vacancies** - This position is located in the Range Communications Section of the Range Support Branch, Data Systems Division, Range Department. Incumbent will install and maintain electronic communications equipment. Incumbent will work closely with engineering personnel in the design, operation, and development of electronic communications systems. **Job Relevant Criteria:** Ability to develop and interpret schematics and engineering drawings; ability to troubleshoot digital and/or analog circuits; skill in installation, maintenance, and repair of electronic equipment; knowledge of telecommunications equipment and systems; ability to analyze technical data. Promotion potential to DT-3.

**No. 62-075, Electronics Technician, DT-856-2/3, Code 6204** - This position is located in the Junction Ranch Test Section of the Radar Cross-Section (RCS) Range Office in the Range Department. The incumbent will perform RCS testing at the Junction Ranch RCS test range and other technical duties in support of the test facility. The incumbent will work an irregular "first forty" schedule, however, 60-hour work weeks are common. **Job Relevant Criteria:** General knowledge of RF, digital, and analog hardware, as well as computer software; ability to maintain and operate SPC radars and Gould Radar Processing System (RPS) computers is desirable; knowledge of the principles, and ability, to calculate set-up parameters for horizontal bounce ranges is desirable. Promotion potential to DT-3.

**No. 62-078, Supervisory Interdisciplinary (General Engineer/Electronics Engineer/Physicist) DP-801/855/1310-3, Code 6236** - This position is located in the Radar Branch, Instrumentation Systems Division, Range Department. As Branch Head, the incumbent is responsible for the definition of new instrumentation radars, improvements to seven existing radar systems, operations and maintenance of North Range radars and radar transponders, management and supervision of branch personnel, representation of instrumentation radars to the Range

**No. 62-076, Supervisory Interdisciplinary (General/Mechanical/Electrical Engineer), DP-801/830/850-3, Code 6223** - This position is Head of the Ground Operations Branch located in the Range Operations Division of the Range Department. The incumbent will supervise and manage the resources of the Branch involved with preparations, conduct and data collection for missile, rocket and gun test performed on the NAVWPNCEN ground ranges. The incumbent will review Test Plans and Operation Procedures to assure safety of the operation. The incumbent supervises the handling of ordnance items in all phases of storage, modification, assembly and firing. The items range from 20MM to 5-inch gun rounds as well as rockets and missiles ranging from 2.75 inches to VLA. The incumbent is responsible for maintenance and security of the facilities and equipment used by the branch. The branch head is a member of the Range Safety Committee and serves as a consultant and advisor to Project Engineers and program sponsors conducting tests on the ground ranges. **Job Relevant Criteria:** Knowledge of ordnance handling safety procedures; knowledge of range operating procedures; ability to perform as a first-line supervisor; ability to communicate both orally and in writing; ability to influence and motivate others; knowledge of and willingness to support NAVWPNCEN's EEO policies. A one year supervisory probationary period may be required. Promotion potential to DP-3.

**No. 62-077, Supervisory Engineering Technician, DT/DP-802-3, Code 6223** - This position is Head of the Ground Operations Branch located in the Range Operations Division of the Range Department. The incumbent will supervise and manage the resources of the Branch involved with preparations, conduct data collection for missile, rocket and gun tests performed on the NAVWPNCEN ground ranges. The incumbent will review Test Plans and Operation Procedures to assure safety of the operation. The incumbent supervises the handling of ordnance items in all phases of storage, modification, assembly and firing. The items range from 20MM to 5 inch gun rounds as well as rockets and missiles ranging from 2.75 inches to VLA. The incumbent is responsible for maintenance and security of the facilities and equipment used by the Branch. The Branch Head is a member of the Range Safety Committee and serves as a consultant and advisor to project engineers and program sponsors conducting tests on the ground ranges. **Job Relevant Criteria:** Knowledge of ordnance handling safety procedures; knowledge of range operating procedures; ability to perform as a first-line supervisor; ability to communicate both orally and in writing; ability to influence and motivate others; knowledge of, and willingness to support NAVWPNCEN's EEO policies. A one-year supervisory probationary period may be required. Promotion potential to DP-3, but not guaranteed.

**No. 62-080, Flight Test Specialist, DS-301-2/3, Code 62513** - This position is located in the Airspace Surveillance

**No. 62-078, Supervisory Interdisciplinary (General Engineer/Electronics Engineer/Physicist) DP-801/855/1310-3, Code 6236** - This position is located in the Radar Branch, Instrumentation Systems Division, Range Department. As Branch Head, the incumbent is responsible for the definition of new instrumentation radars, improvements to seven existing radar systems, operations and maintenance of North Range radars and radar transponders, management and supervision of branch personnel, representation of instrumentation radars to the Range

Commander's Council and participation with division and department managers in support of range projects and operations. Total system responsibilities include remote controlled video theodolites, video camera subsystems, computer controls and data recording devices and communication/control links between radar system components. **Job Relevant Criteria:** Knowledge of radar systems/components; knowledge of data collection systems; knowledge of video and servo systems; ability to supervise technical personnel; ability to manage projects; and ability to communicate both orally and in writing with all levels of personnel including contractor personnel. Ability and willingness to support NAVWPNCEN EEO goals and objectives. Incumbent may be required to serve a one-year supervisory probation period. Promotion potential to DP-3.

**No. 62-079, Multidisciplinary (Supervisory Engineering Technician/Electronics Technician), DP/DT-802/856-3, Code 6236** - This position is located in the Radar Branch, Instrumentation Systems Division, Range Department. As Branch Head, the incumbent is responsible for the definition of new instrumentation radars, improvements to seven existing radar systems, operations and maintenance of North Range radars and radar transponders, management and supervision of branch personnel, representation of instrumentation radars to the Range Commander's Council and participation with division and department managers in support of range projects and operations. Total system responsibilities include remote controlled video theodolites, video camera subsystems, computer controls and data recording devices and communication control links between radar system components. **Job Relevant Criteria:** Knowledge of radar systems/components; knowledge of data collection systems; knowledge of video and servo systems; ability to supervise technical personnel; ability to manage projects; and ability to communicate both orally and in writing with all levels of personnel, including contractor personnel. Ability and willingness to support NAVWPNCEN EEO goals and objectives. Incumbent may be required to serve a one-year supervisory probation period. Promotion potential to DP-3.

**No. 62-080, Flight Test Specialist, DS-301-2/3, Code 62513** - This position is located in the Airspace Surveillance

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Center, Computer Systems Branch, Data Systems Division, Range Department. This center provides necessary airspace safety and security in support of the RDT&E missions of NAVWPNCEN. Incumbent will provide air traffic control services for the NAVWPNCEN test ranges and surrounding areas, as well as assuming the responsibilities for training other civilian and military controllers. **Job Relevant Criteria:** Ability to communicate effectively both orally and in writing; ability to work effectively across organizational and agency lines; knowledge of FAA rules, regulations, FARs and manuals (ie: 7110.65) and ability to maintain currency with all applicable subject matter; knowledge of proper Air Traffic Control phraseology with clear and concise voice projection. Must be a graduate of a formal 'Basic Air Traffic Controller' course of another service or agency which includes surveillance radar practical application. Satisfactory completion of the FAA Airman Written Test for Control Tower Operation (CTO) or other acceptable evidence of having passed the Airman Written Test is also required. Must meet the physical requirements of Federal Aviation Regulations, Part 67 and applicable Naval directives (Class 2). Must be willing to work regularly scheduled overtime. Promotion potential to DS-3.

**No. 64-050, Supervisory Interdisciplinary (General/Mechanical/Electronics/Aerospace Engineer/Physicist/Mathematician/Computer Scientist/Opera-**

**No. 64-051, Range Services Manager, DP/DS-301-3, Code 6446** - This position is that of Head, Range Services Branch, located in the EWTES Division, Aerosystems Department. As branch head the incumbent will direct a multi-disciplined staff which provides support to

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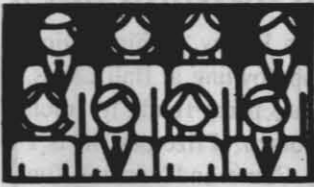
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# Personnel News & Notes

## 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. 24-038, Security Specialist, DA-081-2/3, Code 243** - This position is located in the Security Division of the Safety and Security Department. The incumbent will develop, direct and manage programs concerned with setting up and maintaining physical security systems for the protection of classified materials, document and activities for sabotage, espionage, theft and destruction. **Job Relevant Criteria:** Knowledge of DOD security programs; ability to interpret and apply regulations/instructions; ability to communicate in writing; ability to communicate orally. Incumbent must be able to obtain and maintain a secret clearance.

**No. 24-042, Police Officer, Supervisory, DG-083-3, Code 2413** - This position is located within the NWC Police Division, Safety and Security Department. Incumbent serves as first line supervisor in the Patrol Branch, responsible for one of three watches (shifts). Incumbent will

primarily perform duties in the field, supervising the actions and performance of patrol officers, and will ensure that all investigations handled by patrol units are properly conducted. Incumbent will, while on patrol as a patrol unit and will be alert to law violators, evidence of the occurrence of crime or conditions which would adversely affect the welfare of the Center. **Job Relevant Criteria:** Knowledge of all aspects of police work, particularly patrol procedures and criminal investigations; knowledge of state and federal criminal law; ability to communicate with others effectively; ability to communicate in writing; ability to motivate and supervise; willingness to support NWC's EEO goals and policies. Supervisory probationary period may be required. Promotion potential DG-3.

**No. 31-092, Computer Scientist, DP-1550-2/3, Code 31122** - This position is located in the A-6/A-7 Facility Section,

A-6/A-7 Facility Branch, Avionic Facilities Division of the Aircraft Weapons Integration Department. The integration workstations for the development, test, validation, verification and modification of Operational Flight Programs (OFP) exercised in the tactical computers of the A-6 aircraft. The incumbent is a member of the software development staff responsible for real-time simulation software engineering and development. The incumbent is responsible for developing software in Fortran in support of the A-6 Weapon System Support Facility and the Ada Design Language in support of the integration of advanced avionics systems. **Job Relevant Criteria:** Knowledge of Ada, Fortran, and Pascal; knowledge of avionics systems engineering principles; ability to perform requirements analysis, design, coding and test of real-time simulation software; Must be able to obtain a Secret clearance. Status eligibles may apply. Promotion potential to DP-3.

**No. 31-093, Computer Scientist, DP-1550-2/3, Code 31141** - This position is located in the Software Development Section, F/A-18 Facility Branch, Avionic Facilities Division of the Aircraft Weapons Integration Department. The Software Development Section provides the validation and integration workstations for the development, test, validation, verification and modification of Operational Flight Programs (OFP) exercised in the tactical computers of the F/A-18 aircraft. The incumbent is a member of the software development staff responsible for real-time simulation software engineering and development. The incumbent is responsible for developing software in Fortran in support of the F/A-18 Weapon System Support Facility. **Job Relevant Criteria:** Knowledge of Fortran, and Pascal; knowledge of avionics systems engineering principles; ability to perform requirements analysis, design, coding and test of real-time simulation software. Must be able to obtain a Secret clearance. Status eligibles may apply. Promotion potential to DP-3.

**No. 34-025, Photographer (Laboratory), DT-1060-1, Code 3451** - This position is located in the Photo Lab Services Branch, Photographic Division, Technical Information Department. The incumbent performs all standard techniques and procedures necessary to produce accurate and precise photographic prints and transparencies. The incumbent will use various types of manual enlargers, automatic printers and processors and perform related photo finishing duties. **Job relevant criteria:** Knowledge of laboratory processes and procedures involved in the production of still prints and transparencies; skill in using of automatic printing and processing equipment; ability to produce black/white, color prints and viewgraphs on manual and automatic equipment; ability to effectively use basic technical publications. Promotion potential to DT-2.

**No. 34-026, Technical Publications Writer/Editor (Physical Science and Engineering), DA-1083-1, Code 3412** - This position is located in the Writing and Editing Branch II, Publications Division, Technical Information Department. The incumbent writes and/or edits technical and administrative reports, articles, and brochures; coordinates phases of the publication process; gathers and organizes technical information; and uses electronic word processing equipment. **Job relevant criteria:** Ability to interface effectively with all levels of Center personnel; ability to analyze data; ability to gather and orga-

nize technical information; knowledge of publishing techniques; and skill in writing and editing. Promotion potential to DA-3 but not guaranteed.

**No. 34-027, Electronics Technician, DT-856-2/3, Code 3441** - This position is located in the Film and Video Projects Branch, Presentations Division, Technical Information Department. The unit is responsible for the preparation of technical and management information video presentations to sponsors and NAVWPNCEN employees, and for auxiliary services such as video signal processing, video signal processing, video analysis and video equipment recommendations. The incumbent assists the senior technician in serving as the unit's principal information resource regarding applications of video technology for the collection, processing, analysis and display of technical information. Incumbent assists in ensuring the unit's equipment is in prime condition to support the preparation and display of video presentations, and in many cases, operates the equipment to indicate the types of auxiliary services indicated above. **Job relevant criteria:** Ability to repair, maintain, and operate the types of production and display equipment employed by the Film/Video Projects Branch; ability to interface effectively with all levels of technical and management personnel at NWC, other government activities and contractors' facilities; ability to apply standard and innovative combinations of electronic equipment and components to meet standard and non-standard video requirements; ability to express technical concepts in terms comprehensible to both technical and non-technical personnel, in written as well as oral communication modes. Promotion potential to DT-3.

**No. 34-028, Library Technician, DG-1411-1, Code 3431** - Incumbent performs clerical duties and a variety of general circulation services in the Information Services Branch, Library Division. Duties include charging/discharging books, periodicals, technical reports, files circulation cards, shelves books and periodicals, types and sends overdue notices, reads library shelves and answers the telephone at the circulation desk. Inputs data online preparing for the automation of the technical library. **Job relevant criteria:** Ability to work tactfully and diplomatically with library patrons; ability to deal effectively with Center scientists, engineers and support professionals in performing circulation services. Ability to use computing resources. Promotion potential to DG-2.

**No. 36-072, Supervisory Engineering Data Management Specialist/Computer Specialist, DS/DP-301/334-3, Code 36535** - Position is for the Section Head located in the Engineering Drawing Branch. Incumbent will supervise a group of technicians and computer specialists in the Engineering Documentation Service Center Section, and monitor contractor support providing drawing preparation and maintenance services. **Job Relevant Criteria:** Knowledge of personnel policies, procedures and NWC EEO goals; knowledge of Center instruction regarding documentation policy as it applies to CAD generated drawings; knowledge of configuration/data management principles as applied to digital based documentation; ability to create, handle, store, retrieve and identify digital based data for computer generated documentation; ability to provide technical direction to subordinates in the use of CAD equipment for the prepa-

ration of documentation; ability to supervise a diverse workgroup; ability to manage a support service contract. Incumbent may be required to serve a one-year supervisory probationary period. Promotion potential to DP-3; however, not guaranteed.

**No. 36-074, Supervisory Engineering Technician, DT/DP-802-3, Code 36535** - Position is for the Section Head located in the Engineering Drawing Branch. Incumbent will supervise a group of technicians and computer specialists in the Engineering Documentation Service Center Section, and monitor contractor support providing drawing preparation and maintenance services. **Job Relevant Criteria:** Knowledge of personnel policies, procedures and NWC EEO goals; knowledge of Center instruction regarding documentation policy as it applies to CAD generated drawings; knowledge of configuration/data management principles as applied to digital based documentation; ability to create, handle, store, retrieve and identify digital based data for computer generated documentation; ability to provide technical direction to subordinates in the use of CAD equipment for the preparation of documentation; ability to supervise a diverse workgroup; ability to manage a support service contract. Incumbent may be required to serve a one-year supervisory probationary period. Promotion potential to DP-3; however, not guaranteed.

**No. 36-073, Model Maker, WG-4714-14, Code 36451** - This position is located in the Fabrication Section, Materials Processing and Evaluation Branch, Engineering and Production Processes Division, Engineering Department. The position involves independent performance of a variety of planning, layout, welding, modifying, fabricating, and assembly of research and development prototype models. Requires the ability to establish job requirements and procedures for a variety of trades to follow in completing projects. **Job Relevant Criteria:** Knowledge of measurement and layout; knowledge, both theoretical and practical, of metals used in accomplishing the work required of the position; ability to accomplish the work of the position without more than normal supervision; ability to do the theoretical, precise, and/or artistic work of the trade; ability to interpret blueprints and understand dimensions, shapes, material finish, etc.; ability to use hand tools. Promotion potential WG-14. Supplemental required and is available in Room 100 of the Human Resources Department.

**No. 36-070, Supervisory Interdisciplinary (General/Mechanical/Materials/Electronics Engineer/Physicist), DP-801/830/806/855/1310-3/4, Code 364** - This ad has been amended to include DP-3. This position is Head of Engineering and Production Processes Division, Engineering Department. Incumbent is responsible for the technical and managerial duties of the division. Division responsibilities include a wide variety of engineering and prototype fabrication services to the Center's weapons programs. Engineering services provided by the division include materials engineering and evaluation, both metals and non-metals. Management and operation of extensive materials laboratory facilities include mechanical properties, failure analysis, chemical, SEM, and materials characterization. A major materials requirement is the engineering and fabrication support to

## New telephone dialing procedures set for Michelson Lab and vicinity users beginning November 30

Thursday, Nov. 30, between 1700 and 2400 hours, a new dialing plan will be implemented affecting all telephone users in Michelson Lab and vicinity with telephone numbers in the 1000, 4400, 4500, 4600 and 4700 groups. You will dial 9, wait for dial tone then dial the four digit extension for on-Center calls. For off-Center calls, dial 9, wait for dial tone, then dial 9 plus the

number you wish to call. You must wait for the dial tone after dialing the first "9" to avoid incompleting calls and wrong numbers.

Exception dialing within the

subject number groups will remain the same, i.e., dial the four digit extension.

The dialing plan change will enable you to access MCCC (Mechanized Credit Card Ser-

vice). This means you can key in your credit card number on your touch tone set. operator intervention. You are still required to record each long distance call for validation purposes.

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Famous Californiawear pants. Extra short, short and average lengths. Sizes 8-20. Value \$15. Special \$9.97.  
Pykette's "Magic Fit" pants. Short and average lengths with tummy control. Sizes 8-20 in basic and fashion colors. Reg. \$29. Sale 33% off.\*  
Steppingstones ramie/cotton shaker knit sweaters. Orig. \$16.99. Sale \$10.97.  
Selected Fall dresses. Sale 33% off.  
Entire stock of regular priced jackets and coats. Sale 33% off.\*  
Junior novelty fleece tops. Sizes S-M-L. Reg. \$26-.30. Sale 33% off.\*  
Junior knit pants. Sizes S-M-L. Reg. \$18-.28. Sale 33% off.\*  
Holiday sleepwear including babydolls and beautiful peignoirs. Orig. to \$38. Sale 40% off.

Marc Roberts "Bunting" loungers. Warm, snugly loungewear in a variety of styles. Orig. to \$38. Sale 40% off.  
Magic Lady by Exquisite Form. Sale 33% off.\*  
Entire stock of Vanity Fair bras. Sale 33% off.\*  
Selected Bueno vinyl handbags. Reg. \$30. Sale 33% off.\*  
Selected purse accessories. Orig. \$4-.12. Sale \$2.67-7.97.  
Selected styles of rhinestone earrings. Reg. \$8. Sale 33% off.\*  
Entire stock of William Rand pearl and crystal jewelry. Sale 50% off.\*

**MEN**  
Entire stock of Galaxie II warm up suits. Reg. \$45. Sale 50% off.\*  
Adolfo sweaters. Reg. \$50-.60. Sale 50% off.\*  
London Fog velour tops. Choose from crewneck and collar styles. Orig. \$50. Sale 50% off.\*  
Levi's denim jeans. Reg. \$34. Sale 33% off.\*  
Men's flannel robes. Orig. \$30. Sale 14.97.  
Entire stock of Givencyh socks. Orig. \$7. Sale \$3.97.  
Nikoata casual pants for Young Men. Reg. \$22-.38. Sale 33% off.\*

**CHILDREN**  
Entire stock of regular price socks and tights. Infants, Toddlers and Girls' sizes 4-14. Reg. \$2.50-6.50. Sale 33% off.\*

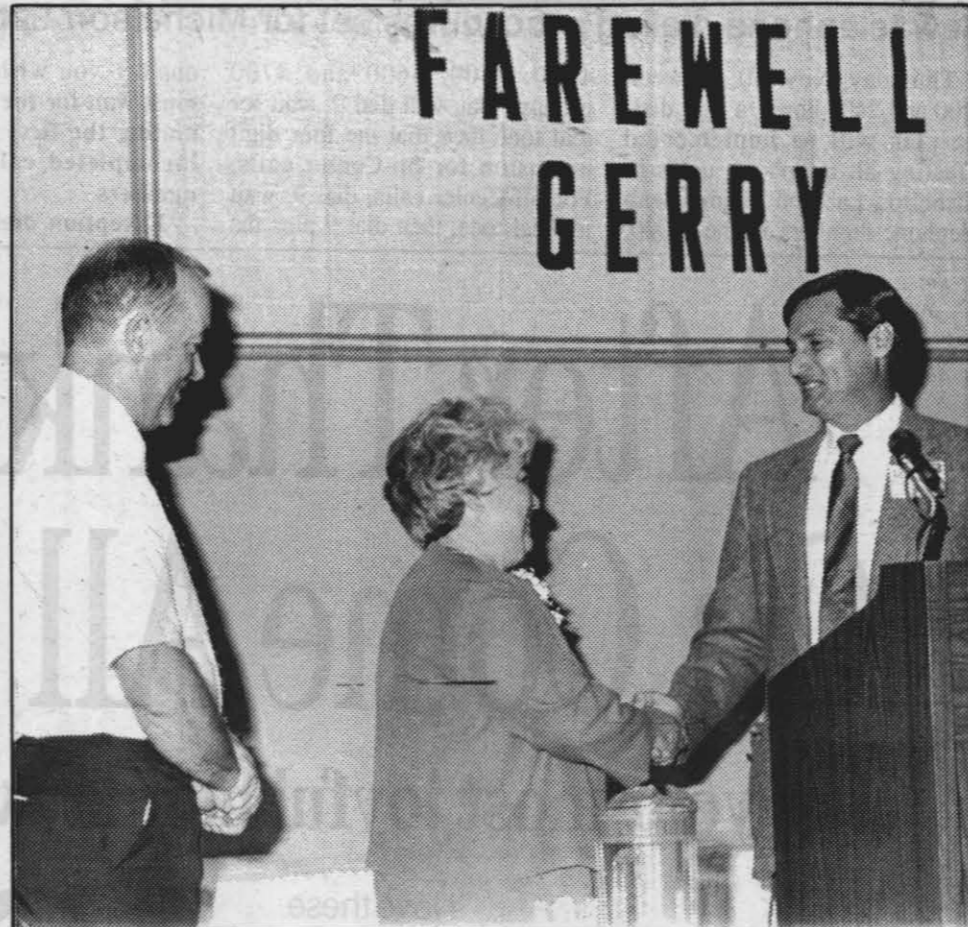
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Glass serveware by Studio Nova. New styles of platters and bowls in assorted styles and sizes. Values to \$18. Sale \$11.97.  
Cutlery specials from Rogers. 5-piece cutlery set. Value \$20. Sale \$9.97. 13-piece cutlery set. Value \$40. Sale \$19.97.  
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(Continued on Page 15)



**FAREWELL--** Gerry Schiefer proudly shows off a clock with a photo montage of all former NWC technical directors. Jack Russell (center) Test & Evaluation Director and Sterling Haaland (right), Laboratory Director, made the presentation to Schiefer at Tuesday's farewell celebration. Schiefer was a 29-year China Laker and active in the community in his limited free time.



**SCHIEFER SALUTED--** Friends and co-workers gathered to bid farewell to Gerry Schiefer on Tuesday night at the Seafarer Club. Capt. Douglas W. Cook, (photo left) presented Schiefer with the Navy Meritorious Civilian Service Award, the top honor the NWC commander can bestow on a civilian employee. Above, Mike Mower (right) Mayor of Ridgecrest, presents a necklace with the City of Ridgecrest seal on it to Schiefer's wife, Loretta. Schiefer, former NWC Technical Director is now deputy commander of the Space and Naval Warfare Systems Command and Director of Navy Laboratories. Photos by PHAN Cary Bady

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**Youth Soccer League ends season  
Teams show off their knowledge**

During their final week of play, teams from the Youth Soccer League showed their coaches, parents and fans what they had learned during the organization's eight weeks of soccer instruction.

**Division I**

**Express 4, Stallions 0**  
Joe Weidenkopf, Blake Stephenson, John Little and Charles Hunks sped past the Stallions by successfully knocking in a goal a piece. They were assisted by the efforts of Ryan Spargo, Adam Dubois and Kyle Owen. The Stallions' coach noted that Mike Giroux, Josh Jackson, Mason Rosenberg and Curtis Haney never quit and gave Express players a run for their money.

**Cougars 4, Coyotes 0**  
The Cougars came out on top with four goals by Quinn Edwards. Jonathan Brown and Whitney Harris assisted in the win with fine plays and a determination to win. Kevin Bolland, Kelly Gartner and Kevin Collins gave their best efforts in trying to stop the felines.

**Sounders 3, Apollos 0**  
Goals by Lance Sutterthwaite and Kipper Glier-Blake resulted in victory. The Apollos did not turn in a score sheet.

**Eagles 1, Cobras 1**  
Matthew Woolley was effective as goalie, preventing the Cobras from scoring more than one. Amber Adair played excellently for the Eagles and Rory O'Neil added to the excitement when he kicked in the tying goal. Neither team could get the edge on the other team. The Cobras did not turn in a score sheet.

**Hurricanes 1, Owls 0**  
The team joined forces to prevent the Hurricanes from scoring more than once. Exceptional plays were performed by Caleb Crow, Jeff Arnts, Greg Waller and Lester Wyatt. The Owls did not turn in a score sheet.

**Stallions 3, Coyotes 2**  
Despite great defense by Frits Van Der Hoek and Tony Luciano, along with goals by Kevin Collins and Curtis Monastero, the Coyotes couldn't stop the Stallions. The Stallions didn't turn in a score sheet.

**Division II**  
**Rockets 4, Diplomats 0**  
Efforts by Matt Wilson and Karla Villegas, along with goals by Justin Wedienkopf, Pete Greedy and Duncan Nicholson shot the Rockets to victory. In

spite of the loss, Mark Ogren, Cale Falk and Darren Hodge played well.

**Bullets 4, Whitecaps 2**  
Defensive moves by Beth Behr and Charles Eodice prevented the Whitecaps from scoring more than two. Scott Giroux, Joey Blanton and Jose Tovar scored for the win. Jeff Robbins and Chris Peters knocked in a goal a piece in the loss. According to the Whitecaps' coach, the entire team had a good season, including Luke Solem.

**Earthquakes 5, Roughnecks 0**  
Plays by Matthew Combs and Tammy Yeager and goals by Barratt Edwards, Jesse Weston and Galen Wilson ended in victory. Goalies David Rollingson and Ray Hyles prevented the Earthquakes from an even greater lead.

**Wolves 4, Strikers 0**  
Two goals by Sam Elson and one each by Jonathan Ford and Angel Avitia had the Wolves howling in victory. Julie Bloudek

was successful in blocking the Strikers from scoring. Nathan Asay, John Fath and Colby Ryan Moore played well in the loss.

**Jets 3, Electrons 3**  
In an exciting match, Ben Labe, Ben Nazeck, Robert Hoffman, David Garcia and Aaron Marshall couldn't upset the Electrons. The Electrons didn't turn in a score sheet.

**Division III**  
**Lancers 1, Soccers 0**  
A kick by Jeff Janson tilted the scales and pushed the Lancers to victory. Shawn Almeida and Stanley Scofield kept the Soccers' players on their toes. According to the Soccers' coach, the entire team played their best and showed the Lancers they weren't an easy team to beat.

**Stings 7, Furies 1**  
The Furies felt the bite of the Stings when Chris Maki and Sean Glasco each made two goals and Mitchell Tims, Kevin Nowicki, and Kurt Katzenstein each suc-

cessfully knocked one in. Mark Kuz booted in the Furies' only goal. Justin Cobb and Andrea Falk played well in the loss.

**Tap bowling set**  
Each Friday evening enjoy No Tap bowling at Hall Lanes. Separate prize funds for men and women. Prize pay off is 1 in 5. Come and join the fun each Friday evening at 6 p.m. at Hall Memorial Lanes.

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## Fishing fees higher in 1990

Department of Fish and Game officials announced that fees for California fishing licenses will rise slightly in 1990. By law, these fees are adjusted annually to reflect cost of living increases.

Effective Jan. 1, the fee for a resident sport fishing license will be \$21, up slightly from the current \$19.25 level. The cost of the one-day sports fishing license will rise fifty cents to \$6.75.

DFG officials noted that revenues generated by the fishing license fees go to support many programs and activities benefitting anglers in California. DFG's catchable trout program provides 12 million hatchery-reared trout annually. An expanded warmwater fisheries program strives to improve fish habitat in lakes and reservoirs. The DFG's artificial reefs program, with more than 30 artificial reefs built offshore, provides quality sportfishing in California's ocean waters.

The 1990 licenses will be available for purchase during early December for shoppers who may wish to buy them as holiday gifts. A lifetime license may be just the gift for that special someone. Buy now before the 1990 increases go into effect.

Lifetime licenses are available for the DFG's License and Revenue Branch, 3211 S Street, Sacramento, CA 95816. Costs are:

•Sport fishing (under age 40) -- 1990 fee, \$661.25; 1989 fee, \$600.

•Sport fishing (40 and over) -- 1990 fee, \$496; 1989 fee, \$450.

•Sportsman's (under 40) -- 1990 fee, \$1,322.25; 1989 fee, \$1,200.

•Sportsman's (40 and over) -- 1990 fee, \$909; 1989 fee \$825.

These lifetime license fees entitle the bearer to an annual hunting and/or sport fishing license for life, regardless of any future fee increases.

Wildlife area passes will also be available for \$11.50, starting Jan. 1. The 1989 price was \$10.

Under the California Wildlands Program, which is designed to generate revenues to supplement DFG's traditional revenue base, nonconsumptive resource users are required to purchase a wildlife area pass (or \$2.25 daily pass) in order to enter nine of the wildlife areas owned and operated by DFG.

The annual wildlife pass entitles the bearer to entry and use of these areas where interpretive wildlife displays, photo blinds, nature walks and guided tours are offered. Hunting and fishing licensees may enter and use these areas by presenting their licenses at the gate. For more information, contact a local DFG office. In addition to the 3211 S Street office in Sacramento, DFG has regional offices in Rancho Cordova, Redding, Yountville, Fresno and Long Beach.

## Toys-for-tots bowling tourney starts today

Beginning Nov. 27 through Dec. 21, Hall Memorial Lanes will be sponsoring a Bowl-For-Tots bowling tournament. Participants can enjoy the game during all open bowling times for \$3.75 and a donation of an unwrapped toy per a three-game series. Unwrapped toys will be given to the local Marine detachment for distribution.



Tournament winners will receive a Brunswick ball and Hall Lanes jacket for first place, a pair of Brunswick bowling shoes and a Hall Lanes jacket for second place and the third place winner will receive a Hall Lanes jacket.

For further information about this tournament, call NWC ext. 3471.

## Hall Lanes now serves breakfast on weekdays

Didn't have time for breakfast before heading out to the job? Don't forget Hall Memorial Lanes is now serving breakfast Monday through Friday mornings. Start the day off right with juice, pancakes, eggs, bacon, sausage, hashbrowns or french toast.

## Nimrods need safety awareness

Most hunters and fishermen enjoy the excitement and relaxation of a successful day's hunting or fishing. A good catch is something to boast about. However, some of these woodsmen come home with a game leg or arm instead of game for the table. Even more tragic, some don't come home at all.

Since 1985, seven Navy men and women have died in hunting and fishing mishaps.

One fall day, a petty officer went hunting with a friend. Neither were wearing blaze-orange. As the two men walked side-by-side in the twilight, another hunter approached them. This approaching hunter heard the brush crackling under the petty officer and his friend and shot, thinking he was shooting at fair game. Instead of a deer, he shot the petty officer in the right thigh. The petty officer is permanently disabled.

Fishermen are anglers first and boaters second. They know a lot more about the latest lures and lines than they do about boating safety. Most fishermen die from drowning when they fall out of the boat. Once they're in the water, they usually make the fatal mistake of trying to swim to shore instead of staying with the boat. Anglers tend to stow their personal flotation devices out of

the way to make room for their fishing equipment.

Drinking alcohol while hunting or fishing just increases the risks of having a mishap. Alcohol decreases your survival time if you are thrown in the water. It also clouds your thinking. Handling a loaded gun while you are

loaded is really stacking the odds against your chances of survival.

Before going out hunting, take a hunting safety course developed by the National Rifle Association. Call the NRA at 202-828-6240 for more information about hunter safety.

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## Michelson Laboratory Award luncheon scheduled Dec. 12

On Tuesday, Dec. 12, the Michelson Laboratory awards will be presented during a luncheon in honor of the recipients. The luncheon will be held in the Mojave Room of the Commissioned Officers' Mess starting at 11:30 a.m. The luncheon will consist of a salad bar and a deli line. The cost of \$7 per person also includes a choice of coffee, tea or lemonade.

The Michelson Laboratory Award is designed to

recognize individuals for technical excellence based on outstanding performance of their individual duties. The award, established in 1966, is complimentary to the center's highest local award -- the L.T.E. Thompson Award.

Reservations for the luncheon may be made by calling NWC ext. 2592 before Monday, Dec. 4.

## Radar aids CLPD nab speeders

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

Kerry B. Swiggum, traffic manager, CLPD Operations Branch, notes areas of concentration for radar traffic enforcement for next week are listed below.

- Monday -- Randsburg Wash Road.
- Tuesday -- Poleline Road.
- Wednesday -- Lauritsen Road.
- Thursday -- Blandy Road.
- Friday -- Burroughs Avenue.

Violations may be cited at any time, as well as in areas other than the ones mentioned above.

## Disneyland offers special price for Christmas

See the magic kingdom of Christmas for a special military (and DoD) price! On Saturday, Dec. 9, and Sunday, Dec. 10, Disneyland will have a special Military Christmas Party from 9 a.m. to midnight each day.

The special price for either day is only \$16.25 per adult and \$14.15 per child. Tickets will not be

sold at Disneyland's gate, but may be purchased at CRAFTTECH. To reserve a ticket, or for more information, call NWC ext. 3252.

According to Sharon Maughmer, manager, CRAFTTECH, Disneyland gate prices will soon be raised to \$25. Get those special tickets while the price is low. Quantity is limited.

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**Are your beneficiaries correct?**

If you have recently divorced, remarried, had a child, or a death in the family, think about who your beneficiaries are. Beneficiaries receive the unpaid wages, retirement, life insurance, and funds acquired by the employee. Many times beneficiaries are left unnoticed for years and benefits are paid to others not intended to receive them. Contact your PMA to take care of the details.

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**THREATENED SPECIES**--China Lake is home to a great deal of good habitat for the Mojave Ground Squirrel, a state-listed threatened species.

**Environmental issues remain part of mission at China Lake**

(Continued from Page 1) American continent," he added. This rock art, along with the old Coso Village Resort at Coso Hot Springs are on the National Register of Historic Places.

NWC reports its findings, or lack of findings to the State Office of Historical Preservation and cooperates with state officials in preserving historic cultural values found on-board the Center.

In the area of wildlife resources, the Mojave Tui Chub, the Desert Tortoise and the Inyo Brown Towhee are all considered endangered species by the federal government. NWC is home to a significant percentage of the population for the chub and towhee. And, according to Boggs, may have a lot of excellent habitat for the desert tortoise, but both the quality of habitat and number of animals on-Center are currently unknown.

"There is no more sensitive natural resource issue in the California desert than the desert tortoise. We have had consultations with the Fish and Wildlife Service on this question and expect to be in (Continued on Page 11)

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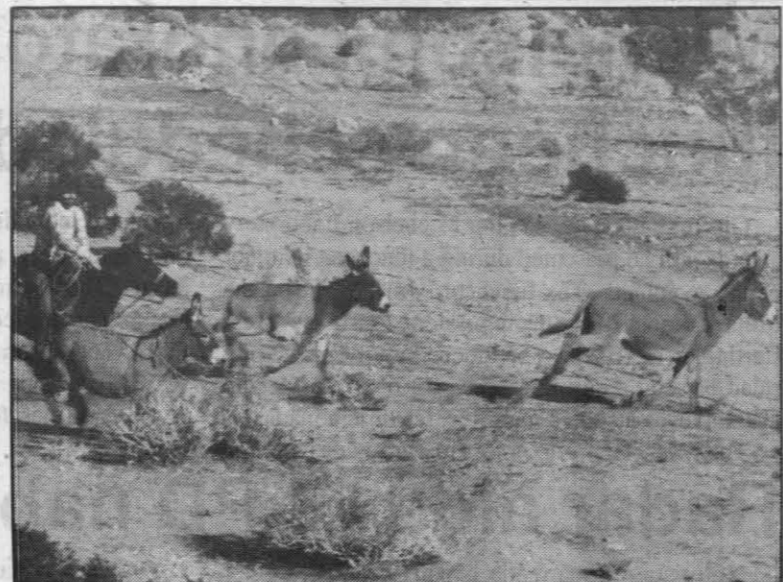
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### NWC preservation

(Continued from Page 10) constant contact with them to help protect this species," said Boggs. The Mojave Tui Chub comes in for a great deal of attention because the fish is found in Lark Seep adjacent to the sewer ponds. There is speculation that leakage from the ponds helps support the fish population. Boggs, however, notes the issue of repairs to leaking sewer ponds is not necessarily related to the survival of the fish. NWC will work to ensure its population of the Mojave Tui Chub remains viable without leaking sewer ponds.

The chub is not native to the Center, but was transplanted here in 1971 in attempt to guarantee survival of a pure population of the fish. Fifteen other transplants were tried throughout the desert, but only at NWC has the chub thrived and become a self-sustaining population.

A native to the Mojave River, the fish is no longer able to survive, in a nonhybrid form, in that habitat. Only two other ponds, both in the Baker area, currently support this fish and those are pond populations, lacking the water flow and oxygen rich water available at NWC. "Our habitat most closely simulates their native environment and we have about 90 percent of the total Mojave Tui Chub population. As a federal agency we are required to provide protection of this species," commented Boggs.

NWC's third endangered species, the Inyo Brown Towhee, is found only in the Argus Mountains. About 70 percent of the habitat for this subspecies of towhee is on-board the Center according to Boggs. "They are found near the springs and in the willows of places such as Mountain Springs Canyon. There are probably only 200-300 individual animals of this subspecies left," he said. Boggs also feels Center activities generally have very little impact on this shy bird of the Argus Mountains.

China Lake is also home to the Mojave Ground Squirrel, a state-listed threatened species. Boggs noted California Energy Company, the prime geothermal development contractor, has an agreement with the state and NWC to fence off 40,000 acres of land as prime squirrel habitat to prevent grazing and other use of the land as mitigation of construction impacts on the squirrel's habitat in the Coso area.

Other special projects are preservation of creosote clones; these ancient rings of creosote bushes are some of the oldest living things on earth. "We have identified some of them and will do our best to avoid any damage to them," added Boggs.

Still another aspect of environmental protection managed by Boggs' branch are wild horse and burro management programs.

While the burro population has been reduced by many means over the years, including trapping and adoption through the Bureau of Land Management (BLM), these non-native animals remain a presence both on-Center and on federal lands adjoining NWC. The Center maintains an active live-capture program with the cooperation of BLM.

Boggs says the number of wild horses roaming the north ranges has been reduced to keep herd levels compatible with habitat and amount of natural food available. This has been accomplished with live-capture and then turning the horses over to other groups or agencies for adoption.

In the coming year Boggs hopes to round up a significant number of horses, adopt out some of the younger ones, then return older, stronger horses to the herds after they have been fed and treated for any diseases. "We hope to keep the wild horse herd strong by returning healthy, strong horses to the field," he said. The poor condition of some of the horses this summer prompted this plan.

Boggs would like everyone to understand the Navy is concerned with cultural values and natural resources and wants to be proactive in their preservation.

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