

# Community Events

On Friday, August 9, the China Lake Astronomical Society will hold a star party at their site south of Ridgecrest. Bring a telescope or binoculars, or share one of theirs. The fun starts at 8:30 p.m. For directions or more information, call 375-5681 or 375-3697.

\*\*\*\*  
Bodie, California, considered by some to be the most famous of all ghost towns, will be the subject of the Maturango Museum's August slide presentation. Gary Staab will host a photographer's tour of Bodie on Wednesday, August 14, at 7:30 p.m. in the City Council Chambers (100 W. California). This is a prelude to the Museum field trip to Bodie on August 24-25.

Bodie was a mining town during gold rush days and is located 30 miles north and east of Mono Lake. It was still functioning at the turn of the century, and still occupied into the 1940's. It is now a state park. Its dozens of buildings are protected; a photographer's delight of old houses, mining buildings and a cemetery.

\*\*\*\*  
Janet Westbrook will lead the Maturango Museum's annual

## United Methodist holds old fashioned Ice Cream Social

Homemade ice cream, pies and cakes will highlight the United Methodist Women's Annual Ice Cream Social on Wednesday, August 14, at 6 p.m. on the lawn of the United Methodist Church's Social Hall, 639 N. Norma Street. Prices, including beverage, are \$1 for children six years old and younger and \$2.50 for all others. Entertainment will be provided by the Merry Chords Male Gospel Chorus, under the direction of Warren Stump.

Come join the fun!

## Summer playgroup available

Are you a parent or child care provider who would like to get out of the house -- and not just to the grocery store? Then join Community Connection for Child Care every Wednesday through Aug. 7 from 9 to 11 a.m. at Hellmer's Park (off Warner, near the Senior Center and Pinney Pool) as they present *The Kid Konnection Summer Playgroup Series*. This series is designed to offer fun activities for infants, toddlers, pre-schoolers and elementary school-age children, while giving adults a chance to meet and form their own playgroups. For more information, call 375-3234 or 371-3269.

retired school principal, will entertain pre-schoolers with his tale of *Narcissus*. While this program is especially geared towards the younger set, parents are encouraged to come out and enjoy this program. Saturday

Adventures are free with admission to the museum.

\*\*\*\*  
Beginning August 17 through Sept. 11, a series of acrylic paintings entitled *Nature to Infinity* by Los Angeles artist Norma Jean

Squires will be displayed in the Sylvia Winslow Gallery of the Maturango Museum. A preview reception for members only will be held Friday evening, August 16, from 7 to 9 p.m. at the gallery.

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August 8, 1991

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## WEATHER

	Max	Min	Gusts
Weds.	98	76	21
Thurs.	105	74	11
Fri.	105	69	12
Sat.	104	66	15
Sun.	98	66	18
Mon.	98	62	14
Tues.	96	61	14

## JPs prepare food for potluck picnic set on August 23

Junior Professionals and Co-op employees at the Naval Weapons Center, and their friends and families, are invited to attend a summer potluck picnic on Friday, August 23, at Solar Park from 5:30 to 9 p.m.

This event will provide an opportunity for NWC entry-level employees to meet each other and have a good time. The JP Recreation Committee will provide a portable stereo, ice and soft drinks, along with plates and silverware. Participants are asked to bring a covered dish or snack to serve six, as well as games, tapes and CDs. Lifeguards will be on duty for those who care to swim.

For more information, call Pat Baczkiewicz at NWC ext. 3371.

## OPNAV lists new eligibility rule for BOOST spots

Washington (NNS) -- The revised eligibility requirements for fleet inputs to the broadened opportunity for officer selection and training program (BOOST) are due to the fleet this month.

OPNAV Notice 1500, dated June 12, 1991, contains the revisions and application instructions for the 1992 class. Interested sailors should contact their command career counselors for a copy of the notice and to check on application form availability. Application forms (NAVCUIT 1100/11 Rev. 5/90 and NAVCRUIT 1100/13 Rev. 3/81) may be ordered through command supply departments.

# NWC Rocketeer

Naval Weapons Center, China Lake, California 93555-6001

Vol. XLVI, No. 30, August 8, 1991

## New technology opens ARS door

by Steve Boster  
Rocketeer Editor

Lighter, by at least 25 percent, more rigid in flight and a reduced radar cross-section are among the advantages seen in a new aircraft rocket launcher constructed largely out of composite materials. Designed and fabricated by Scaled Composites of Mojave, under a contract with the Advanced Rocket Systems (ARS) Program (Code 35B4), the launcher is eyed as a replacement for the outdated technology of the LAU-61 launcher on fixed wing aircraft and helicopters, noted Dave Eiband,

NWC program manager.

Last week, Navy and Marine Corps officials from NWC, Naval Air Systems Command (NAVAIR), Pacific Missile Test Center, Naval Ordnance Station, Indianhead and China Lake Marine Aviation Detachment were at Mojave's airport for the official "roll-out" of the composite-based launcher.

Attendees included Col. J.R. Agenbroad, CO, China Lake MAD and Lt. Col. Paul Backs, PMA 201 of NAVAIR.

Eiband called it an exciting day for the program. "It's exciting technology, because the

application is so new," Eiband said of the proof of concept launcher being shown off by Scaled Composites. He also noted this prototype launcher had been virtually hand-built by the contractor using very low-tech processes, easily adaptable to an assembly line if full development follows.

The first static firings of 2.75 inch rocket motors and composite material test coupons are expected to take place almost any day. The firings are being conducted on NWC ranges. After several other launcher static tests, the

(Continued on Page 11)

## NWC gains prevention fire expert

Davidson has strong skills for new task

By JOC Carloyn A. Dettling

Since his Boy Scout days, the outdoors have held a special appeal for Ross Davidson, the Naval Weapons Center's newly appointed Fire Prevention Chief.

As a child, Davidson's parents took him on family vacations to places such as Yellowstone and Glacier national parks, and he discovered within himself a growing desire to become a forest ranger.

Years later, while studying forest management at Southern Illinois University, Davidson spent his summers as a fire fighter in the forests of South Dakota. It was then he realized his true vocation, and he fought fires for 11 years afterward.

Davidson came to the Indian Wells Valley in 1983. Working for the Bureau of Land Management (BLM), he served as fire station manager until October of last year, when he came to work

(Continued on Page 5)



PROTOTYPE LAUNCHER--Col. J.R. Agenbroad, CO., MAD, and CWO4 Bill Porter, look over the Advanced Rocket Systems proof of concept launcher. Photo by Steve Boster

## Forty-five years brings retirement time

by Kristine L. Roquemore  
Rocketeer Staff Writer

It's tough interviewing someone who works on matters relating to intelligence and advanced concepts for future systems. They can't say anything about it! And, as Fred Ashbrook, who holds a vast number of "titles" in the Naval Weapons Center's Advanced Tech-

nical Applications Office, puts it, "It makes it real hard to brag about what you've accomplished."

Well, although this is very true, this man has done so much in the 45 years with NWC that the accomplishments of the first 32 years not dealing with the intelligence community are enough to be a lengthy novel.

Right from the start Fred brought a wealth of knowledge to the Center. Particularly since he spent four years with the Radiation Laboratory at the Massachusetts Institute of Technology (MIT), developing microwave radar technology prior to his arrival. In fact, he was responsible for bringing radar technology to

(Continued on Page 6)



# Commentary

## NWC Rocketeer

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## The Skipper Sez...

### QUESTION

I am a civilian bicycle rider. I noticed recently that the bicycle path near the front gate on the north side of the road has many tree stakes that are no longer being used. They present a very serious hazard to bicycle riders. Could they be removed or at least marked? Thank you.

### ANSWER

Thank you for bringing this potentially dangerous situation to our attention. After confirming the extent of your observation, the Public Works Officer directed the Center Facilities Support Contract contractor to remove the offending tree stakes and to ensure that any unused stakes are promptly removed in the future.

### QUESTION

Yes, sir. I am a petty officer second class and I work out here at the airfield. I have a friend whose grandfather recently passed away. He was a WWII POW and veteran. He got out of the Army with military honors. When they called the church to get the color guard, the church told him that it would be \$1500 for the color guard, plus a \$300 donation to the church. It's been my understanding, that this is a community

service. I was wondering if this could be addressed in the Rocketeer so everyone can understand where the color guard stands in the community. Thank you.

### ANSWER

The Naval Weapons Center Color Guard is a volunteer drill team established and maintained according to Navy regulations and, more specifically, NAVWPNCEN Instruction 5060.1B. The Color Guard is available without charge to render honors at military funerals, including those of veterans. According to NAVPERS 15555, if the funeral is not to be conducted locally, the military coordinator for the area in which the service will be held is to determine the availability of a Color Guard for the service. Although a church may expect a reasonable donation for use and civilian clergy persons may receive a stipend for their religious services, no church can include in its service fees the cost of a Color Guard. The Color Guard is always available free of charge.

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. Douglas 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.

## Pages from the Past



August 8, 1986

Construction of flood control projects near the main gate forced detours for people using the front gate. . . Milt Kramer and Gene Albers of Code 32 got "Wise Owl" awards for wearing safety glasses on the job. . . Gloria Morrow and HM3 Linnea Guy won employee of the quarter honors from the NWC Branch Medical Clinic

August 14, 1981

High temperature of 115 tied the record set in 1972. . . Jim McManis won the Technical Director's Award for integration work between the Harpoon missile and the A-6E Intruder. . . Bill Manatt is teaching a class in basic Russian for Center employees. . . Bob Boot, head of the Fuze and Sensors Department, was presented a certificate for the department's two million man-hours without a lost-time accident. . . A new technology air-curtain incinerator is now in use in the Salt Wells area.

August 5, 1966

Peggy Rogers' work with the "Eye" ordnance series brought

her the Navy Superior Civilian Service Award, presented by Under Secretary of the Navy for Manpower, Richard Beaumont. . . Cdr. Robert Brady reported to NOTS as the assistant anti-submarine warfare officer. . . LCDr. Richard Willett is the new administrative officer for VX-5. . . Gabe Imer was named to head the NOTS Special Services Division. . . San Bernardino High School math students toured Michelson Lab.

August 8, 1951

Red Cross representatives at NOTS are collecting money for disaster relief in the U.S. mid-west region. . . Range Guard Pop Lofinck arrested three men for illegal entry to the Station. . . NOTS Safety Director, Reynolds Fesmire, retired to go into business for himself. . . Mrs. Roy Seitz is the new manager of the Anchorage. . . Richard Potter, of the Research Department, presents a technical lecture on heat treatment next week. . . The local measles outbreak is on the wane, only four cases reported last week.

## China Lake Calendar

Thursday, August 8

. . . Air Safety Foundation seminar, Station Theater, 7 p.m.

. . . CalComp demo, NWC Viz Lab (Room C208A, Michelson Lab).

Wednesday, August 14

. . . ESB-sponsored Shoemobile visits NWC, 7:30-9 a.m., Building 01474 parking lot (Public Works Compound)

Wednesday, August 21

. . . China Lake Women in Science and Engineering's presents *Listening to the Future* (by Sterling Haaland), at their bi-monthly luncheon, 11:30 a.m. to 1 p.m., Carriage Inn Banquet Room.

Friday, August 23

. . . Junior Professional Potluck Picnic, 5:30 p.m., Solar Park.

## CLP announces radar areas

Motorists on board the Naval Weapons Center (NWC) are reminded that China Lake Police (CLP) officers enforce state and NWC traffic regulations. Areas of concentration for radar traffic enforcement for next week are listed below.

•Friday -- Burroughs Avenue. •Monday -- Knox Road.  
•Tuesday -- Inyokern Road. •Wednesday -- CLPL Road.  
•Thursday -- Blandy Avenue.

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

# ROCKETEER CLASSIFIEDS

## 1 PERSONALS

Happy Dude,  
GOOD LUCK ON YOUR FELLOWSHIP!

Yeah, only a year away from having a life. So how does that Depeche Mode song go again?..."Your personal....(what?)"  
Guess Who

GUITAR LESSONS - Study with GIT Graduate & Instructor. Beginners to advanced. 371-7934.

MATH TUTORING, from grade school through high school. Success guaranteed. \$15 per hour. Call 371-3930.

## 5 LOST & FOUND

LOST: small white female Toy Poodle, named Monique. Lost Aug. 3, area of Solar Park on base. \$100 reward. Call Leonard 375-5196 or 375-5232.

## 15 HELP WANTED

TREAT YOURSELF TO SOMETHING SPECIAL! Hold an Undercover Wear Lingerie Show and earn free lingerie for yourself and loved ones. Call for details. Sonja, 446-7172.

YOU CAN MAKE over \$50,000 per year and be your own boss. No experience necessary. Call 371-3930.

## 20 RENTALS

EXECUTIVE HOME, hot tub, nice area. Unfurnished \$1,000/mo. Furnished \$1,500/mo. Avail. 9/15. ERA Vaugh Realty 446-6561.

LARGE 1BR APT - Carpet, drapes, appliances. W/T paid, laund. fac. on premises. Close to shopping & main gate. \$325/mo. + \$250 sec. Avail now. 377-5960.

ROOMMATE NEEDED IMMEDIATELY! FEMALE ONLY! Have own room and bath. \$214.50/mo. + dep. and 1/3 util. Pool, Jacuzzi access. 1 child OK. 371-3975, leave message.

TRIPLEX APT. 2BR, 1BA, 1 car gar., refrig., d/w, gas range & oven, w/d hookups, water pd. \$480/mo. + sec. 371-1144.

## 30 SERVICES

BABYSITTING - Full or part time. Days, nights, & evenings avail. Reasonable fees. Call Denise at 446-4689 for more info.

CHILD CARE IN MY HOME - Preschool and school age. Around the corner from Richmond Elementary. Drop-ins, part time & full time. Base certification pending. 446-1012.

EDWARDS PAINTING SERVING THE AREA SINCE 1979 CALL FOR AN ESTIMATE. LIC.#427485 375-1439

## 30 SERVICES

FAMILY HOME DAYCARE - license pending, base certification. 4 openings over 2. Call Tammy 446-7136.

Lawn/Yard Quality Maintenance, clean-ups & sprinkler repair. Rancho Trails Landscaping. Lic. #432532. 371-4630.

PARENTS NIGHT OUT! Fri & Sat nights. Bring your kids to my house, then pick them up the next morning. Base Certification pending. 446-1012, ask for Chris.

WINDOW TINTING - Auto, commercial, residential. Special for many trucks. Single Pane rear window - \$25. Call Larry, 446-6612.

## 35 AUTOMOTIVE

1962 3/4 TON FLAT BED 4 WD Jeep. Rebuilt motor & trans, needs glass. \$900. 377-5234.

1987 Ford Taurus GL Sedan, auto, A/C, AM/FM, PM, PW, PS, \$4,500/OBO. 371-3375.

1987 Ford Tempo. All wheel drive, 4 door, 48K, automatic, PS, cruise, tilt, A/C, AM/FM cassette, tinted windows, luggage rack. \$5,500 OBO. 375-0411.

85 FORD ESCORT - 4 speed w/air. \$2,200 OBO. 446-3955.

86 MAZDA B200 LX - 63K miles, mags, shell, PS, bedliner, excellent condition. \$4,000 neg. MUST SELL! 446-4689.

CLUTCH SET - Brand new. Will fit 76-78 Honda Accord CVCC w/5 speed transmission. \$75. 375-6055.

Coleman Scano (Boat), 15', holds up to 600 lbs. with Minakota 5 forward & 5 speed reverse electric motor. \$400. 377-5234.

## 35 AUTOMOTIVE

FOR SALE: 1984 Ford Temp, auto, trans., all new rubber, body in fine shape, interior excellent, AM/FM cassette. Needs some engine work. Asking \$1,000 OBO. Call 374-2407 after 5 weekdays, anytime weekends.

REALISTIC 40 CHANNEL MINI CB - Complete with car mounting kit and magnetic antenna. Almost new. \$50. 375-2695.

## 40 MISC. FOR SALE

2 large solar panels for hot water, no glass, \$100. 377-5234.

8 pair of real wood window shutters. 377-3111.

DITCHWITCH TRENCHER C-90, rebuilt motor, many new parts and steel tilt bed trailer. \$1,700. 377-5234.

IBM Portable Computer, 640K, color card, 2 - 5.5" drives, 1 serial, 1 parallel, with printer. \$500. 2 drafting tables. \$25 each. Call evenings 446-7831.

Kenmore 700W large microwave, multi power/stage, auto time/temp cook, auto def., turntable. \$125 OBO. 375-0411.

Kenmore Ultra Stitch 12 sewing machine. Buttonhole, zig zag, etc. \$50 OBO. 375-0411.

Keyboard, Yamaha DSR 2000, 100 voices, programmable MIDI, rhythms, Ram Card memory, instruction manual, 5 channel recording capability. \$695 OBO. Call Cindy 375-7971.

REALISTIC 40 CHANNEL MINI CB - Complete with car mounting kit and magnetic antenna. Almost new. \$50. 375-2695.

## 40 MISC. FOR SALE

Sofa sleeper \$75; love seat \$50; end table \$10; girls desk \$25; crib \$110. Call 446-0432 or see Fri. & Sat., 309 Sellars Cir. (Base). All prices negotiable.

START YOUR OWN Sewer and Drain Cleaning Business. For sale - Nearly new (used 5 times) Electric EII Sewer equipment. Set up in a 65 Ford Econoline Van, \$3,000. Call 377-5234.

Vivitar 35mm Camera. 28mm, 50mm & 135mm lenses, flash, filters, hoods & case. \$95 OBO. 375-0411.

Westinghouse refrigerator, avocado green, 22 cu. ft. \$140 OBO. 446-2968.

World Progress Encyclopedias, \$200. Jenny Lynn baby crib, \$50. 3 cockatiels w/cage, \$75. Shephard/husky, 1-1/2 yrs., free. 446-7666 after 3 p.m.

## 50 PETS/SUPPLIES

AKC BISCON FREISE - Available 7 August. \$350/each. 371-1571.

AKC CHOW CHOW PUPPIES. Only 2 black females left. Has shots. MUST GO. \$100 OBO. 446-2072.

the Dirty Blind Lady  
Ultrasonic Blind Cleaning  
371-7740

## 50 PETS/SUPPLIES

Black Lab Puppies, AKC registered. Sire champion show pedigree, Dame champion field pedigree. \$250 each. Male & female. 446-2252.

ROTTWEILER, male, 1-1/2 years old. Great dog, great with kids. \$300 OBO. Must sell! 446-5544.

## 55 REAL ESTATE

3BR 2BA HOME on 4 acres. Property also has 21'x26' shop and two mobile home spaces. Six miles North of Inyokern on Brown Rd. \$85,000. For appt. call 377-5234.

Older 2BR MH located in adult park. Storage shed, awning, fenced yard. Children allowed. Near shopping. Only \$7,995. 446-6871.



Buckle Up

1 BDRM., 1 BATH  
Pool/walk-in closet/refrigerator  
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446-6561 or 371-2414

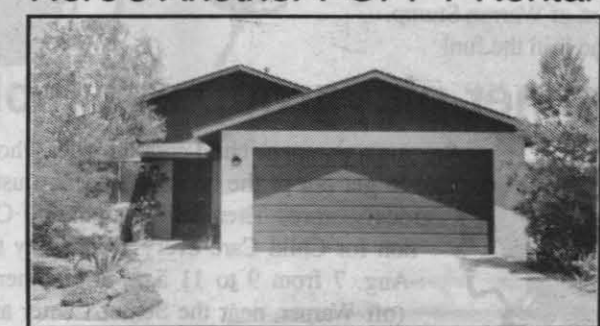
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Licensed by the Dept. of Real Estate

**HAPPY BIRTHDAY!**

To Code 6204's Ranch Hands!  
"Something OLD and something NEW"

N60530  
World's Oldest  
Living Range Rat  
John A. Leis

N60530  
World's Youngest  
Range Rat  
James Bell



## Chico's fall schedule revealed

(Continued from Page 21)

instruction on the representation, application and processing of data structures as they relate to information representation, parameter passing, recursion, assemblers, compilers, operating systems and machine organization. Topics include lists, trees and graph. An analysis of algorithms is also discussed.

Text: TBA.

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

**MATH 477: Linear Algebra (5 quarter units)**

**September 12-November 14, Thursdays, 1610-2110; Training Center. By Professor El-Ansary, CSUB, (805) 664-2130.**

Prerequisite: Calculus III or consent of instructor.

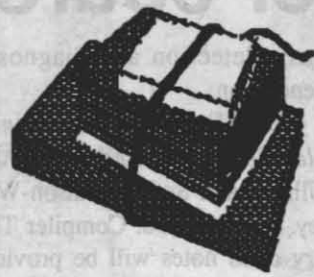
Scope: Matrices; systems of linear equations; vector spaces, dimensions, linear independence; spaces associated with amatrix; basis, change of basis, orthogonal bases; linear transformations, matrix representation; eigen values and eigenvectors, diagonalization; quadratic forms.

Text: TBA.

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

### Comments

Job-related courses other than those listed above or those offered under contract with Cal-State, Chico; Cal-State, Bakersfield; or Cal-State, Northridge, must be approved on a DD 1556 (Off-Center Training Request) before registration if NWC is expected to pay for the training. For additional information, call Cecil Webb at NWC ext. 2648.



## C Programming class planned

**C Programming (54 hours)**

**August 26-October 29; Mondays, Tuesdays and Thursdays; 1600-1800; Training Center. By John Francis, Code 3572.**

Intended Audience: Beginning Programmers in C.

Prerequisite: A good understanding of another high-level language and basic knowledge of the computer.

Scope: This course provides an introduction to programming in the language of C. C Language declarations, control statements, procedures, functions and input/output will be discussed in depth. All the examples will lead to the development of a graphic-like application. These examples include writing an event manager, basic graphical techniques, and window/resource handling.

Objectives: By the end of the course, the students should be able to take a software algorithm and implement it in C. The students will also be familiar with how to write windowing software that incorporates an event manager like the Macintosh

Computer.

Note: College credit available for this course. Enrollees must submit an On-Center Training Request (NWC Form 12410/70), two weeks prior to the course. NWC employees may use the Training Center's computers for lab work. All course fees and texts will be paid. **Contractors and non-NWC employees:** enrollment fees are to be paid at the first course meeting. The two texts which will be used are *Book on C*, by Kelly, 4th edition, ISBN #8053-00600; and *C Quick Reference*, by Que, ISBN #0-88022-372-3. Some surplus government supplied texts may be available at the first course meeting, otherwise, texts are available at the college bookstore and Ridgcrest bookstores. Lab time must be arranged through Cerro Coso Community College, paying the appropriate fees.

Point of Contact: Annette, Code 224, NWC ext. 2451.

Note: Enrollments are filled as first application received, first approved.

Deadline: **August 19.**

## CSUN writing proficiency exam set

On Sept. 5, the English Writing Proficiency Test will be given to graduate students of Cal-State Northridge (CSUN). CSUN students should take the exam as soon as application for admission has been submitted. **This test must be passed before the student is granted classified (unconditional) status as a master's candidate.**

Graduate students must attain classified status before earning more than 12 units of academic work acceptable towards the master's degree. The exam fee is \$20. Checks must be made payable to California State University, Northridge.

To arrange to take the exam, or for more information, call Denise at NWC ext. 2648.

# Military News

## JOBS offers new career opportunity

WASHINGTON (NES)-- Sailors can advance their careers by taking advantage of the Job Oriented Basic Skills (JOBS) program. JOBS provides training in six career fields, called strands. The program applies equally to men and women and provides sailors with pre-requisite skills training for "A" school. An "A" school seat is guaranteed to JOBS graduates in their choice of ratings through the program.

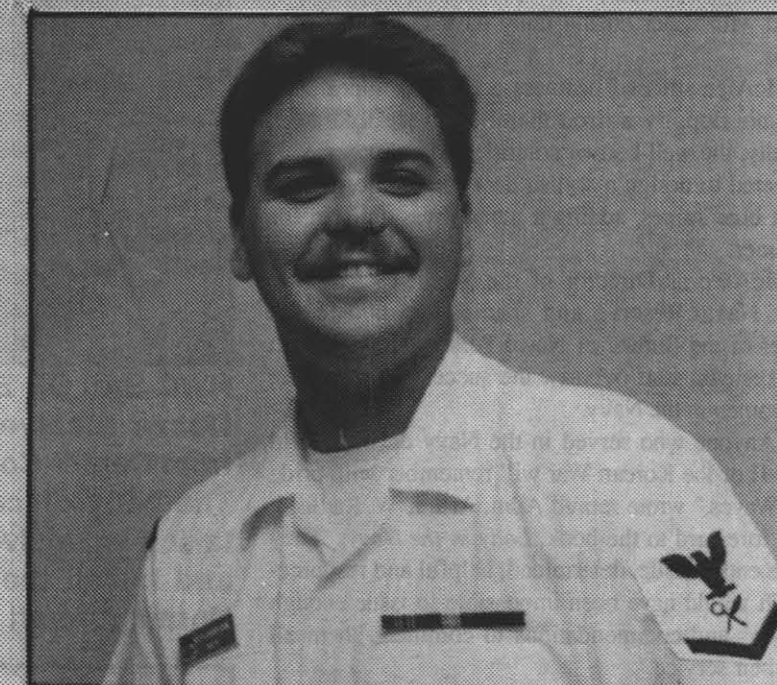
The length of the JOBS school depends on the strand in which the sailor is qualified. The length of the "A" school depends on the training required to qualify for the specific Navy rating. The available strands and "A" schools are:

- Engineering -- BT, GSM, MM
- Operations -- OS, OTA, OTM, AW, STG
- Administration -- PN, SK, AK, DK, YN, AZ
- Electronics -- AT, AX, AQ, ET, FC, GM, EW
- Electrical -- EM, CE, IC
- Navigation -- QM

The JOBS program supports the Navy's Affirmative Action Program and promotes upward mobility. It invites sailors to broaden their skills and learn new ones.

The program has been recommended by the Navy Women's Study Group as a viable tool to help integrate enlisted women into careers now available to them in sea-intensive ratings on ship and in aviation squadrons.

## VX-5's Vampire of the Month



Intelligence Specialist Third Class Petty Officer, Walter L. Johnston, USN, was recently chosen as VX-5's Vampire of the Month (VOM) for his stellar performance with the Projects Department's Intelligence Office. Johnston was chosen by the VOM selection board for his many accomplishments which include the research of intelligence related matters supporting the command's foreign material exploitation (FME) efforts; outstanding work during a recent squadron detachment as the single intelligence authority, working with multi-service commands as part of a trilateral agreement in support of USN/USMC ICON GLASS II testing; and tracking the command's inventory of intelligence publications for Chief of Naval Operations (CNO) project test data--which includes over three thousand classified documents.

Photo by PH3 Cary Brady

## Vacation:

Next time you need a place to stay think Navy Lodge

WASHINGTON (NES) -- Two of the benefits for active-duty service members are Military Airlift Command (MAC) flights and Navy Lodges. Put those together and they spell an inexpensive vacation, or a place to stay while on permanent change of station (PCS) orders or during a medical emergency.

Navy Lodges, run by the Navy Resal and Services Support Office are dedicated to providing clean, comfortable and affordable lodging to Navy and other military families whether they are relocating on temporary duty or traveling on leave. Most lodge rooms can accommodate up to five people.

Rooms usually have a dining area and a fully-equipped kitchenette with microwave or stove, refrigerator and tableware.

For a family of four, Navy Lodge room rates average 20 percent below those of local hotels. Navy lodges offer military families a chance to have a family vacation while keeping the family budget intact. Also, MasterCard, Visa, Diners Club and Discover charge cards are accepted for payment.

Navy Lodges are located at 43 sites around the world including brand new facilities in Roosevelt Roads, Puerto Rico; Key West, Fla.; and Staten Island, N.Y.

Personnel undergoing a PCS move have the highest priority and can make reservations as far in advance as they choose.

All other active-duty personnel may make reservations 60 days in advance. Other authorized customers, including reservists and retirees, may call as early as 30 days in advance.

For toll-free reservations and information, call 1-800-NAVY INN. The line is open 24 hours a day, seven days a week. Personnel stationed overseas may use the Autovon number, 624-1103.

Once you've made your reservation, your room is guaranteed until 6 p.m. The toll-free number can provide information but cannot make reservations for overseas lodges.

## U.S. Naval Institute and Kodak announce photo contest

The 30th Annual Naval & Maritime Photo Contest offers cash awards for its winners

Now is the time to pull out those special photographs you've been waiting to enter into a contest because the U.S. Naval Institute and Eastman Kodak Company has announced their 30th Annual Naval & Maritime Photo Contest.

The contest is open to both amateur and professional photographers. Winning photographs will be published in a 1992 issue of *Proceedings*, the monthly magazine of the Naval Institute. Cash prizes will be awarded as follows: 1st prize, \$500; 2nd prize, \$350; 3rd prize, \$250; and 15 honorable mentions will receive \$100 each.

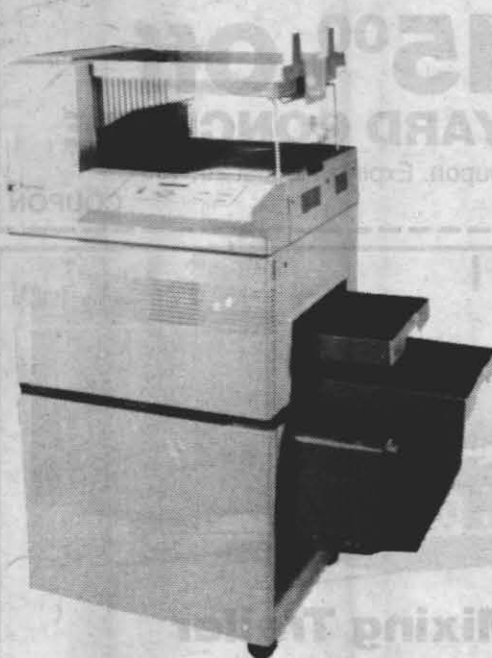
Entry rules are as follows: Each photograph must pertain to a naval or maritime subject (the photo is not limited to the calendar year of the contest); limit: 5 entries per person. Entries must be either black-and-white prints, color prints, or color transparencies; minimum print size is 5" x 7"; minimum transparency size is 35 mm (no glass mounted transparencies, please). Full captions and the photographer's name, address, and social security number must be printed or typed on a sep-

arate sheet of paper and attached to the back of each print or printed on the transparency mount (do not write directly on the back of a print--no staples, please). Entries may not have been previously published, and winners may not be published prior to publication in *Proceedings*. Prior publication could result in the relinquishment of the prize awarded; and all entries must arrive at the U.S. Naval Institute no later than Dec. 31, 1991.

Only photographs accompanied by self-addressed, stamped envelopes will be returned. Photographs not awarded prizes may possibly be purchased by the Naval Institute. Please indicate on a separate sheet of paper if you would like to make your entry available for purchase.

The Naval Institute will pay \$35 for each slide or photograph purchased for retention in our files or for future publication.

For more details call (301) 268-6110 or mail entries to Naval & Maritime Photo Contest, U.S. Naval Institute Annapolis, MD, 21402.



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1st Show.....	10:00AM-10:30AM
Reception & Demonstration.....	10:30AM-12:00PM
2nd Registration.....	2:00PM
2nd Show.....	3:00PM-3:30PM
Cocktails, Hors D'oeuvres & Further Demonstrations...3:30PM-6:00PM	

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## A tribute to founding 'Waves'

Washington (NES) -- It has been forty-nine years since the first woman Naval officer, Mildred H. McAfee was commissioned a Lieutenant Commander in the United States Navy, Aug. 3, 1942.

It all began late in 1941, when U.S. involvement in a two-ocean war resulted in a severe manpower shortage, and military planners considered allowing females in the armed services. Even President Roosevelt's wife, Eleanor, and Representatives Edith Nourse Rogers and Margaret Chase Smith were pressing for the idea of women in uniform.

An advisory council was selected and their first important task was to recommend a director for the Waves. Hoping to attract qualified applicants to the service and also to reassure the women's families, the council suggested Mildred McAfee, president of Wellesley College. She had a great deal of experience in working with young women and accepted the challenge of supervising the military program.

Director McAfee received the rank of lieutenant commander and was sworn in as "an officer and gentleman in the United States Navy." Moving rapidly to get the Wave program under way, she had a five-member staff consisting of an assistant director, a public relations officer, a traveling representative and two special assistants. They planned recruiting procedures, training programs and possible job assignments for Waves.

Officer candidates made the rapid transition from civilian life to Navy routing and discipline. They learned about Naval history and organization, ships and aircraft and communication and law. They

shared crowded dormitories, coped with double-decker bunks and stood in line for meals. Terms such as "ladder," "bulkhead," "hold," "deck," "mess," "head," and "chow" took on new meanings.

Uniforms were a problem at first and suggestions went from a perky, turned-up hat with a brim which filled with water during rainy days to comic-opera strips.

McAfee stressed neatness and smart appearance and no sloppily attired members were tolerated. Finally, the well-known couturier, Mainbocher, volunteered to design a stylish dark blue uniform with light blue stripes, adding a white dress uniform for summer.

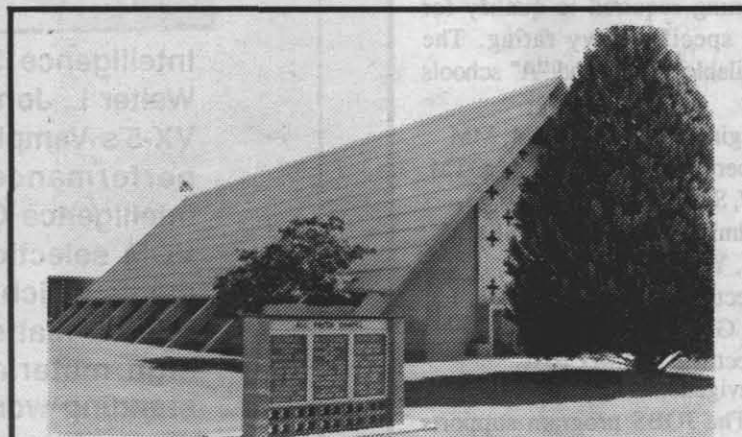
McAfee as Director of the Women's Reserve, U.S. Naval Reserve and special assistant to the Chief of the Bureau of Naval Personnel along with her skeleton staff oversaw the successful beginning of women in the Navy.

"Anyone who served in the Navy during World War II or the Korean War will remember with pride the Waves," wrote retired Adm. Arthur W. Radford, in a foreword to the book, *Lady in the Navy*. "They were enthusiastic, determined, helpful and resourceful. It would have been impossible to issue enough ribbons and commendations to commend them all for their service."

Radford also wrote in the same foreword of the book, published in 1972, that it (was) interesting to note that the Navy (found) it expedient to get rid of battleships but (found) it cannot get along without the women in the Navy.



**NWC SAILOR EARNS NAM -- AD3 Christopher A. Duszka receives the Navy Achievement Medal from Center Commander, Capt. Douglas W. Cook. The petty officer received recognition for undertaking extensive man-hours (over 320) to remove and install the entire fuel cell in NWC's F/A-18 Hornet Aircraft Number Four. Photo by PH3 Cary Brady**



## Divine Services

### Protestant

Sunday Worship Service, East Wing 8:00 a.m.  
 Sunday Worship Service, Main Chapel 10:30 a.m.  
 Sunday School, 1008-10 Blandy & 1903-05 Mitscher 9:00 a.m.  
 Bible Study (East Wing), Wednesday 11:30 a.m.  
 (September thru June)  
 Men's Prayer Breakfast, East Wing, Thursday 6:30 a.m.  
 Officers' Christian Fellowship/Christian Military Fellowships, East Wing, Thursday 7:00 p.m.

### Islamic

Jumaa Prayer (Friday at 1002 Blandy) 1 p.m. (DST)  
 12 p.m.(ST)

### Roman Catholic

Sunday Mass, Main Chapel 9:00 a.m.  
 Daily Mass, Small Chapel 11:35 a.m.  
 Confessions, Weekdays By appointment  
 Religious Education Classes (Sunday) (September thru May) 10:30 a.m.  
 1902 Dobb, 1002 Blandy, 1008-10 Blandy & 1903-05 Mitscher

### Jewish

(375-0385 Messages)  
 Weekly Services (Friday - East Wing) 7:30 p.m.  
 Adult Hebrew Lessons (Saturday, East Wing) (September thru June) 3:00-5:00 p.m.  
 Religious Education (Sunday, East Wing) (September thru June) 9:00 a.m.-12 (noon)

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## CSUC offers variety of computer courses this fall

Following are courses being offered this fall for the California State University, Chico (CSUC), Computer Science Program (bachelor's and master's degrees). To enroll in these courses, call Denise at NWC ext. 2648. Registration will be held at the first class meeting. **Deadline for enrolling is 10 calendar days before the starting date of the class.** Enrollments in courses will be on a first-come, first-served basis, unless otherwise indicated. **CSCI 310: Software Metrics and Control (3 units)**

**August 27-December 19, Tuesdays and Thursdays, 1230-1345; Training Center (via satellite). By Professor James Murphy, CSUC, (916) 898-4037.**  
 Prerequisite: CSCI 210: Software Engineering or CSCI 270: Systems Design or equivalent or consent of instructor.

**Scope:** Software development: planning, cost estimation and control. Software metrics, configuration management and quality controls. Reviews and walk throughs.

**Text:** 1) *Fundamentals of Software Engineering*. Carlo Ghezzi, Mehdi Gazayeris and Dino Mandrioli. McGraw-Hill,

1991, first edition. 2) *Managing Software Development Projects*. Neal Whitten. John Wiley and Sons, 1990. 3) Required supplemental papers will be distributed. **CSCI 382A: Information Theory (3 units)**

**August 27-December 19, Tuesdays and Thursdays, 1400-1515; Training Center (via satellite). By Professor Paul Luker, CSUC, (916) 898-4414.**  
 Prerequisite: CSCI 151: Algo-

1991, first edition. 2) *Managing Software Development Projects*. Neal Whitten. John Wiley and Sons, 1990. 3) Required supplemental papers will be distributed. **CSCI 382A: Information Theory (3 units)**

**August 27-December 19, Tuesdays and Thursdays, 0800-0915; Training Center (via satellite). By Professor Melody Duncan, CSUC, (916) 898-6480.**  
 Prerequisite: Calculus and some familiarity with methods of proof, elementary probability theory or consent of instructor.

**Scope:** A mathematical theory of communication dealing with the efficient encoding and transmission of information. This theory can provide the systems analyst or telecommunications specialist with some of the basic tools to design optimal systems.

**Text:** *Coding And Information Theory*. Richard Hamming. Prentice-Hall, second edition. **CSCI 397C-11: Theory of Object-Oriented Programming Languages (3 units)**

**August 27-December 19, Tuesdays and Thursdays, 1400-1515; Training Center (via satellite). By Professor Paul Luker, CSUC, (916) 898-4414.**  
 Prerequisite: CSCI 151: Algo-

1991, first edition. 2) *Managing Software Development Projects*. Neal Whitten. John Wiley and Sons, 1990. 3) Required supplemental papers will be distributed. **CSCI 382A: Information Theory (3 units)**

**Scope:** The course will concentrate on the nature of object-oriented programming languages (OOPLs). In particular, the course will focus on the typing philosophy of OOPLs and the concomitant effect on polymorphism and implementation. Other implementation issues, as they relate specifically to OOPLs, will also be investigated.

**Text:** *An Introduction to Object-Oriented Programming*. Timothy Budd. Addison-Wesley, 1991.

**CSCI 250: Compiler Theory (3 units)**

**August 27-December 19, Tuesdays and Thursdays, 0930-1045; Training Center (via satellite). By Professor Orlando-Madrigal, CSUC, (916) 898-6442.**  
 Prerequisite: CSCI 151: Algorithms and Data Structures or equivalent or consent of instructor.

**Scope:** Language definition and descriptions, Syntax structures, parsing, extraction of elements, symbol table construction, memory allocation, control statements, I/O lists, code generation,

error detection and diagnostic generation.

**Text:** 1) *Compilers: Principles, Techniques And Tools*. Aho, Ullman and Sethi. Addison-Wesley. 2) CSCI 250: Compiler Theory class notes will be provided at cost.

**Note:** This is a required course in the bachelor's degree program in computer science through CSUC for the general and systems options.

**CSCI 227: Discrete Systems Simulation (3 units)**

**August 27-December 19, Tuesdays and Thursdays, 1100-1215; Training Center (via satellite). By Professor Ralph Huntsinger, CSUC, (916) 898-5740.**  
 Prerequisite: CSCI 151: Algorithms and Data Structures or equivalent or consent of instructor.

**Scope:** Principles of system modeling, simulation models and

languages, discrete systems, industrial dynamics, use of probability concepts, queueing patterns, case studies.

**Text:** *MODERN Statistical Systems and GPSS Simulation*. Zaven Karian and Edward Dudewicz. Computer Science Press, 1991.

**CSCI 151: Algorithms and Data Structures (3 units)**

**August 26-December 18, Mondays and Wednesdays, 1130-1245; Training Center (videotape). By Professor Melody Duncan, CSUC, (916) 898-4022. Lab, which will be conducted by Howard McCauley, NWC ext. 2274, will be held on Tuesdays from 5 p.m. to 6 p.m. at the Training Center.**  
 Prerequisite: CS16: Advanced Pascal or equivalent or consent of instructor.

**Scope:** This course provides (Continued on Page 22)

## Operation Deep Freeze needs sailors

Washington (NNS) -- Augmentation assistance is needed for Operation Deep Freeze from September 1991 through March 1992. Nominations for men and women desiring to volunteer for this six-month period in one of the most challenging areas of the world are needed in the following rates/pay grades: one RM3/2; one MA1; one MA2; one MS3 (NES 3524); and four EO2's.

Nominations for these career-enhancing temporary billets should be submitted to Commander, Naval Support Force Antarctica (Attn: Code 11), no later than Aug. 15. Nominations should be submitted as follows: name (last, first, middle), rate/pay grade, SSN, current PRD (May 1992 or later), EAOS, personal evaluation marks (last three reports). Personnel selected for this assignment can expect to report approximately Sept. 10, 1991.

Point of contact for Operation Deep Freeze is CWO2 Thomas P. Gaines, at (805) 982-4976, Autovon 551-4976.

## U.S. Naval Institute announces essay contest

The U.S. Naval Institute is proud to announce its annual Arleigh Burke Essay Contest. Anyone is eligible to enter and win. First prize earns \$2,000, a gold medal, and a life membership in the Naval Institute. First Honorable Mention wins \$1,000 and a silver medal. Second Honorable Mention wins \$750 and a bronze medal.

The topic of the essay must relate to the objective of the U.S. Naval Institute: "The advancement of professional, literary, and scientific knowledge in the Naval and Maritime service, and the advancement of the knowledge of sea power."

**Entry Rules:**  
 •Essays must be original, must not exceed 4,000 words, and must not have been previously published. An exact word count must appear on the title page.

•All entries should be directed to: Publisher, U.S. Naval Institute, Annapolis, MD 21402.

•Essays must be received on or before Dec. 1, 1991 at the U.S. Naval Institute.

•The name of the author shall not appear on the essay. Each author shall assign a motto in addition to a title to the essay. This motto shall appear (a) on the title page of the essay, with the title, in lieu of the author's name, and (b) by itself on the outside of an accompanying sealed envelope containing the name, address, telephone number, social security number, and short biography of the essayist, the title of the essay, and the motto. This envelope will not be opened until the Editorial Board has made its selections.

•All essays must be typewritten, double-spaced, on paper approximately 8 1/2" by 11". Submit two complete copies. (If typed on a computer, please also submit a disk clearly indicating program used.)

•An essay entered in this contest should be analytical and/or interpretive, not merely an exposition, a personal narrative, or report.

The awards will be presented to the winning essayist at the 118th Annual Meeting of the membership of the Naval Institute in Annapolis, Maryland, in April 1992. The winners will be notified by phone on or about Feb. 1, 1992. Letters notifying all other authors will be mailed on or about March 1, 1992.

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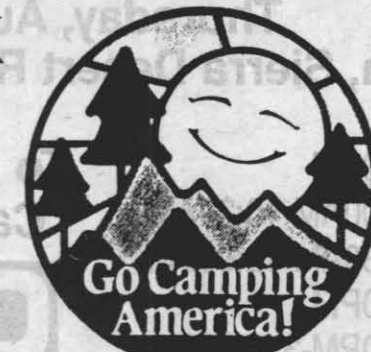
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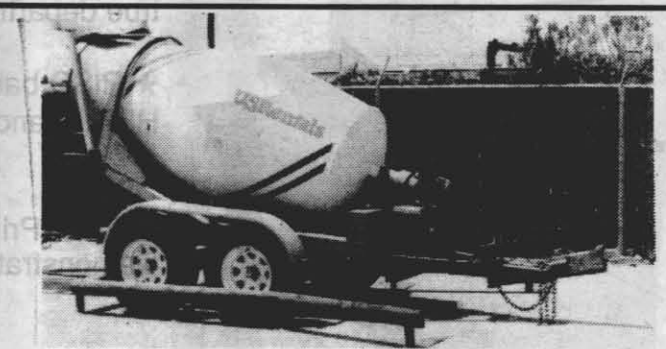
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## Qualified applicants sought

(Continued from Page 19)

and including 10 tons. The incumbent will inspect cargo and shipping documents to insure material is properly marked, stenciled, labeled, tagged and sealed. The incumbent will assist in loading and unloading all ammunition and explosives transported in or out of the Magazine Area. The incumbent will assist in the upkeep and cleanliness of all magazines as well as periodically inventory and restock the magazines. Applicants should possess ordnance knowledge, be able to identify safety hazards, be able to operate trucks and special vehicles. **Job Relevant Criteria:** Ability to do the work of a warehouseman without more than normal supervision; Technical and work practices; ability to read, interpret and apply the instructions and specifications used in the trade; ability to use and maintain tools, instruments and related equipment as appropriate to the warehousing trade; and ability to operate with dexterity and safety. This position has a potential to WG-7, but is not guaranteed. To apply, all applicants must submit a SF-171 and Supplemental Qualification Statement. Supplementals may be obtained in Room 100 of the Civilian Personnel Building.

No. 62-029, Electronics Technician, DT-856-2/3, Code 62118 - This position is located in the Instrumentation Support Section of the Ballistics Test Branch, Ordnance Test and Evaluation Division, Range Department. The incumbent will determine requirements, configure systems, and install instrumentation for signal conditioning, data acquisition, and initial processing on static propulsion tests at the Skytop Test Complex facilities. Applicants should have knowledge of instrumentation and measurement systems; analog and digital encoding; multiplexing and data recording; and fiber-optic data transmission. **Job Relevant Criteria:** Skill in using

electronic test instruments. Ability to troubleshoot digital and/or analog circuitries. Ability to communicate both orally and in writing. Promotion potential to DT-3, but not guaranteed.

### Secretarial opportunities

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

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

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

No. 31-014, Secretary (Typing), DG-318-1/2, Code 3131 - The incumbent will provide secretarial and administrative support to the Radar Warning Receivers (RWR) Branch. Ability to operate a Macintosh computer is necessary. The full performance level of this position is DG-2. Previous applicants need not reapply.

No. 38-007, Secretary (Typing), DG-318-1/2, Code 38502 -

The incumbent provides secretarial support including travel arrangements, correspondence, short reports, arranging for conference rooms, viewgraphs, etc., to the Chemistry Division. Knowledge of and working skill on the Macintosh II and software including Microsoft Word and Powerpoint is desirable. The full performance level of this position is DG-2. Previous applicants need not reapply.



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## Co-workers need helping hand

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 call NWC ext. 2018.

**Linda Harinek, Purchasing Agent, Code 254 --** underwent coronary angiography and is in need of leave.

**Linda J. Roether, Secretary, Code 6204 --** is indebted for leave which was required due to a fractured right elbow.

**Charlotte L. Brennan, Budget Analyst, Code 2836 --** is in need of leave in order to care for her two-year old son who is recuperating from reconstructive foot surgery.

**Betty Ciotski, Procurement Assistant, Code 31B1 --** is undergoing treatment for an acute staph infection in her surgically replaced hip. She will be unable to work for three months.

**Sandy Joyal, Procurement Assistant, Code 257--** broke her elbow in four places.

**Barbara J. Bennett, Secretary, Code 308 --** had arthroplasty and needs to be off work for three months. She is indebted for leave.

**Leo Montano, Visual Information Specialist, Code 3441 --** is undergoing further cancer treatment and is in need of leave.

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

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

**Rick A. Breitengross (Code 36813) Engineering Technician** is providing care for his step-mother who is in total kidney failure and on dialysis.

**Cynthia Langham (Code 64154), Aerospace Engineering Technician,** is undergoing medical treatment and is indebted for leave.

**Herschel R. Sibley, Mechanican Engineering Technician, Code 3571 --** underwent heart surgery and is in need of leave.

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## New fire prevention chief brings many skills to job

(Continued from Page 1)

for the Center as a fire fighter. By January 1991, he had become a fire inspector. Then, in July, he took on his new duties.

A few components of the fire prevention chief's job are supervision of four fire inspectors, oversight of fire prevention training for NWC employees, and working with planners to assure building renovations and new construction meet all fire regulations.

Each October, during Fire Prevention Week, he organizes and participates in activities designed to bring fire prevention awareness to children - and through them, to parents.

"We have a unique group in this area called the High Desert Fire Prevention Association (HDFPA)," Davidson explained. "It's composed of members of the China Lake Fire Division, Kern County Fire Department, Searles Valley Fire District, BLM, Sequoia National Forest, and North American Chemical Corporation. The group's focus is collaborating in efforts for overall fire prevention education of children. We use our combined fire prevention budgets, ideas and talents to provide a better program than any of us could individually. The group has received national recognition for its innovations, but I can't take credit for that because the organization was China Lake

Deputy Fire Chief Darrell Johnson's brain child."

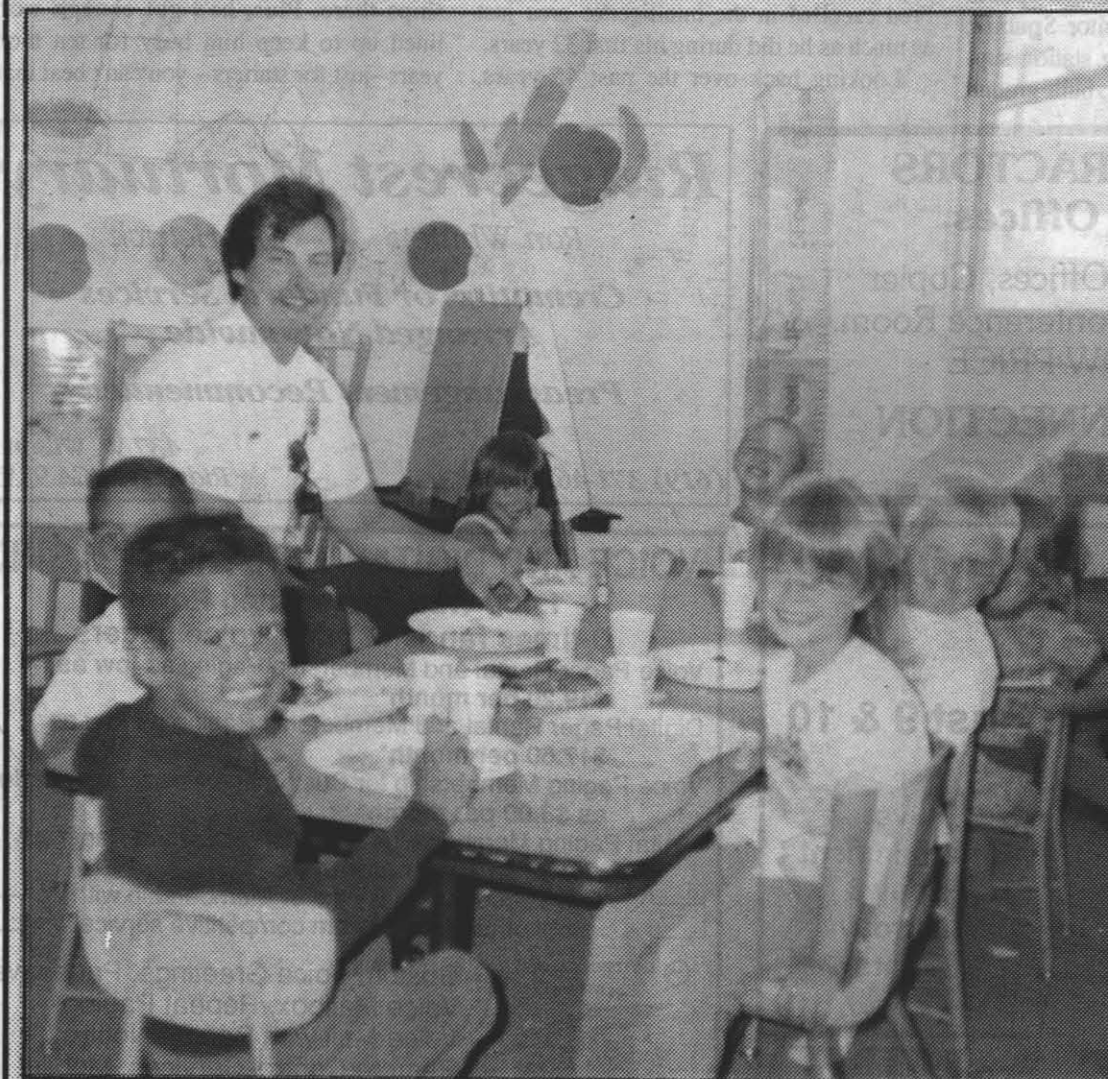
"One of our major projects during Fire Prevention Week is a play we put on at the base theater and in Inyokern, Trona, and the Kern Valley area. All told, we do about 12 productions during the week," Davidson added. "At each site we show a short movie, then present awards to the winners of the yearly fire prevention poster contest. Over the years, the group has been able to increase the awards from a certificate and a \$10 savings bond to a bicycle and a \$50 savings bond."

"A representative from the HDFPA serves as emcee, introducing guest hosts who have ranged from Batman to Alf to a Ninja Turtle." The play itself features Smokey Bear, Sparky the Dog and Woodsy the Owl. Also featured are sister and brother, Smarty and Marty, who have adventures resulting in a need for Smokey or Sparky to save the day.

Funds for Fire Prevention week activities come from an HDFPA fair booth, service organization donations and portions of the agencies' budgets.

"My new job is very satisfying so far," said Davidson. "And I don't expect that to change."

From Boy Scout to fire fighter to fire prevention chief, Ross Davidson has followed a path that suited him...and suits him still.

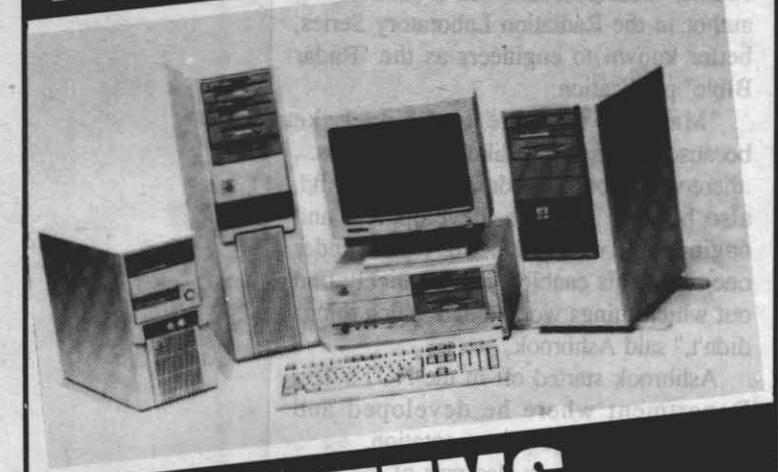


**SMILES ALL AROUND--**New China Lake Fire Prevention Chief Ross Davidson shares a meal at the Center's child care center. While his new duties will mean spending less time with the children themselves, he will still oversee their fire prevention programs.

NWC Photo by Darrell Johnson

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# Ashbrook recalls 45 years at 'The Lake'

(Continued from Page 1)

the Naval Ordnance Test Station (NOTS) in 1946.

During his years at MIT, Ashbrook developed microwave radar receiver technology; designed demonstration models of shipboard radars; built and operated one of the first MIT systems (Mercury Delay Line); invented and developed early radar counter measures; and was a contributing author in the Radiation Laboratory Series, better known to engineers as the "Radar Bible" publication.

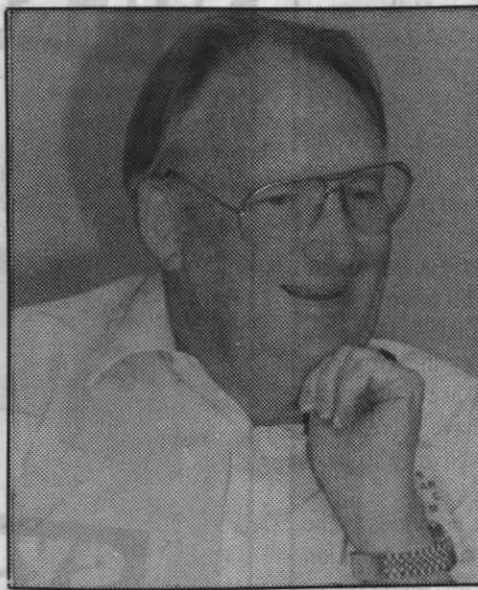
"Many of us came to China Lake because it was set up like the MIT labs. . .there was a lot of freedom in testing. And, also because research, development and engineering were all being tested under one roof. This enabled you to quickly find out which things worked and which things didn't," said Ashbrook.

Ashbrook started off in the NOT's Test Department where he developed and upgraded test range instrumentation.

The engineer was also part of the Inter Range Instrumentation Group (IRIG) formed to solve technical problems of the ranges and establish standards. As chairman of the Steering Committee, he worked to establish IRIG standards concerning telemetry, timing, data reduction, radar instrumentation and frequency coordination. "That Steering Committee of the 50's was the driver for setting today's standards used in the ranges. . .we're very proud of that fact. . .we spent a great deal of effort

pushing those standards through," elaborated Ashbrook.

During his career, Ashbrook was a member of the Navy team supporting the POLARIS system, including inertial guidance testing at NOTS, and was the advisor on the field test program; he participated in the development and testing of the control



Fred Ashbrook

logic for an optically controlled lunar lander system; built ground stations for overseas stations in support of the AIR launched satellite attempt NOTSNIC; helped set up the electronic and optical tracking of satellites to monitor Sputnik; designed and built a tracking station supporting the Explorer launches; built ground

stations supporting optical scanners for the Pioneer rocket which orbited to the moon; worked on an early robotics concept demonstration using a head coupled TV system; and converted NOTSNIC tracking stations to provide field support in gathering data for the Navy Satellite as part of the Transit Program. These are just a few of the things he worked with in his years with NWC; the list continues on and on.

In November of 1969, the electronics engineer took over the Electronic Warfare Range (Echo Range) with the objective of shifting responsibilities so that NWC took on a major rather than a minor role in the testing of ECM systems.

"We became the leaders--and importantly so--in understanding how Russian weapon systems worked and in training pilots how to cope with those threats during the Viet Nam conflict" explained Ashbrook. "This included working with intelligence sources; leading design of systems that performed like the threats; actively planning and evaluating test results; developing tactics; and putting the sea site (Naval threat complex) in operation."

In 1978, Ashbrook was initially borrowed for six months by Carl Schaniel, to help with a "special" study. Six months turned into 13 years! Which brings us back to the hush-hush topics which can't be written about. So, we'll just trust that Fred excelled in the intelligence area just as much as he did during his first 32 years.

Looking back over the past 45 years,

Ashbrook said he's witnessed some incredible changes and survived some strange phenomena -- including the infamous Michelson Laboratory flood of 1984. He swears accounting for every piece of classified material swollen shut in file drawers filled with water is not something he will ever forget. The secret to his success -- freeze drying the paper!

The biggest change at NWC he has seen evolve is the shift away from the "hands-on" technical research being conducted.

"When I started working here, Michelson Laboratory was a laboratory. There were a few offices along the second deck, but virtually every room was laboratory space. Now, when you walk down the corridor -- every room is office space. And, in those days we were very heavy into hardware and development testing. Much of that has transitioned to industry and these days we're considered more the 'government technical experts' working for industry," reflected Ashbrook. "I personally think we've been pushed too far out and we're losing the people with the real hands-on experience. In short, there aren't enough John Pearson's left!"

Now that Fred and his wife, Marge, have officially retired, they plan to leave the desert and settle in Irvine, Calif. Over the years they've spent a lot of time in that area and have established many friendships there. Plus, he's got enough work lined up to keep him busy for ten more years--just for starters-- you can't beat that!

## Personnel News

### Promotional opportunities

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

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

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

Application materials are accepted, and blank forms are available, at the Reception Desk, Room 100, Human Resources Department, 505 Blandy. Announcements close at 4:30 p.m. on Thursday, 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.

### Notice Regarding Drug Testing Designated Positions

Any applicant tentatively selected for one of these positions will be required to submit to urinalysis to detect illegal use of drugs prior to a final selection. Final selection is contingent upon a negative drug test result, and thereafter the selectee will be subject to drug testing on a random basis as the incumbent of a Testing Designated Position (TDP). Further, all Department of the Navy employees may be subject to drug testing under certain circumstances such as reasonable suspicion and after an accident. All individuals will have an opportunity to submit medical documentation that may support the legitimate use of a specific drug to a Medical Review Officer. An applicant's test results will be provided to the selecting official and servicing Civilian Personnel Office before a final selection is made. A verified positive drug test of a current Department of the Navy employee will also be provided to the employing activity/command. (NAVWPNCENINST 12792.2, 14 Dec 90).

**No. 28-054, Supervisory Budget Analyst, DP-560-3, Code 2837** - This position is Head, Corporate Budget Branch, Budget and Resource Analysis Division, Office of the Comptroller. The Incumbent manages and supervises a team responsible for development of the Center's operating budget, A-11 budget, and financial management reporting systems. The incumbent must have demonstrated: the ability to understand complex resource allocation issues; a working knowledge of the Center's budget formulation and A-11 budget process; a working knowledge of the Navy Comptroller Manuals #5 and #7 and the Budget guidance manual; a working knowledge of the impending base consolidation

efforts. **Job Relevant Criteria:** Knowledge of the budget formulation/execution process; and of the Navy Industrial/MRTFB funding systems; knowledge of TQM (leadership); knowledge of affirmative action principles including a willingness to implement EEO practices; ability to perform as a first-line supervisor; ability to communicate effectively orally and in writing; ability to deal effectively with all levels of Center management. Incumbent may have to serve a one year supervisory probationary period. The full performance of this position is DP-3.

**No. 31-016, Procurement Clerk/Assistant, DG-1106-1/2, Code 31B** - THIS IS A PART TIME POSITION NTE 20 HOURS PER WEEK. This

position is located in the Pre-Procurement Group (PPG), Code 31B, in the Aircraft Weapons Integration Department. The incumbent provides clerical support in the form of typing, filing, compiling data, maintaining logs, and performing follow up on action item suspense dates for a wide variety of contractual actions. The incumbent also maintains instructions, reviews correspondence and receives visitors and telephone calls. **Job Relevant Criteria:** Knowledge of contract terminology; knowledge of correspondence procedures; skill in performing routine clerical functions; ability to meet and deal with people. The full performance level of this position is DG-2. Previous applicants need not reapply.

**No. 31-019, Supervisory Electronics Engineer, DP-855-3/4, Code 3158** - This position is for the Head of the Target Recognition Branch, Targeting and Fire Control Division, of the Aircraft Weapons Integration Department. The incumbent will be responsible for providing leadership for the development of advanced anti-ship, air-to-air and air-to-ground targeting systems for Navy aircraft and missile systems. The task requires experience in automatic target recognition systems (pattern recognition), and/or advanced targeting systems, signal processing, radar systems, radar imaging technology, project management and the Navy R&D development process. Experience and training in missile guidance systems, tactical and surveillance avionics systems, advanced signal processors and model based service technology coordination and planning procedures would also be very beneficial. **Job Relevant Criteria:** Knowledge of targeting techniques which includes automatic target recognition, signal processing, radar systems and radar imaging; knowledge of affirmative action and a willingness to implement EEO policies and goals; ability to plan, organize, coordinate and manage projects; ability to communicate in writing; ability to influence and motivate others which includes making presentations to NWC management and sponsors. The selectee may be required to serve a one year probationary period for supervisors. This vacancy announcement closes on August 22, 1991. Promotion potential is DP-4.

**No. 35-020 Supervisory Interdisciplinary Electronic/Physical, DP-855/850/801/1310-3/4, Code 35B3** - This position is Project Manager for the Advanced Interdiction Weapon System Project Office, Attack Weapons Department. The Naval Weapons Center has been designated by NAVAIR as Lead Field activity for development of the Advanced Interdiction Weapon System (AIWS). Code 35B3 has been assigned the Technical Design Agent (TDA) responsibility for the AIWS program under the cognizance of AIR-540. The project office is responsible for developing and reviewing requirements, chairing the sys-

tems Engineering Support Team (SEST), reviewing and evaluating DEMVAL contractor's performance. In addition, the project office will be responsible for reviewing and monitoring the Engineering and Manufacturing Development (E&MD) contractor when selected. The Project Manager works very closely with the sponsor on all aspects of the project office. The position requires a technical background and interaction with Washington sponsors, major and small contractors, Navy Field activities, and NWC team members. The Project Manager will emphasize the management of the NWC in-house activities and their relationship with outside organizations. The Project Manager will also work closely with Washington sponsors and major contractors to resolve issues and provide direction to NWC support tasks. **Job Relevant Criteria:** Ability to plan, organize, coordinate, and manage a technical program; knowledge of guidelines and procedures for engineering development, transition-to-production, and production; Knowledge of affirmative action principles including a willingness to implement EEO practices; ability to communicate in writing; ability to communicate in writing. This ad will close on August 15, 1991. A one year supervisory probationary period may be required. Promotion potential to DP-4, but not guaranteed.

**No. 61-013, Warehouse Worker, WG-6907-5/7, Code 6141** - This position is located in the Weapons Support Department, Magazine Operations Division. The incumbent will perform duties involving the receiving, shipping, storing, issuing and transporting of ammunition/explosives and components. The major duties and responsibilities of this job are as follows: The incumbent will be required to learn to operate and become proficient in the use of all handling equipment such as electric and diesel forklifts plus trucks up to (Continued on Page 20)

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## Golf Course news



Golf cart rental fees at the Naval Weapons Center's Golf Course have been reduced Mondays through Thursdays during the remainder of the summer. The new weekday cart fees will be \$10 for 18 holes or more, or \$5 for nine holes.

In addition, China Lake Golf Course Yardage books will be on sale for a minimum price. The books were designed by a Marine, Sgt. Shaun Self, from the Marine Aviation Detachment at China Lake, for use during the Southpac Golf Tournament held here recently. The book maps each hole, with an explanation of yards, green depth and par. Ask for your book, today!

## Aquacise, don't exercise

There are all sort of excuses to get out of exercising, including it's too hot, it's boring or it's too painful. Fine, don't exercise -- aquacise! Try the new water fitness sensation! The water is a cool way to cool off; getting in shape is fun; and the gentle support of the water prevents those painful sensations felt in aerobics.

Sponsored by the Morale, Welfare & Recreation Department's Sports Division, aquacise classes are being held each Tuesday and Thursday at Solar Park Pool and the Indoor Pool. Classes are from 9 to 10 a.m. at the Solar Park Pool and from 5 to 6 p.m. at the Indoor Pool.

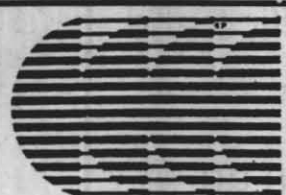
Monthly fees are \$16 for military personnel, \$20 for DoD and \$24 for all others. Daily fees are \$2.50 for military personnel, \$3 for DoD and \$3.50 for all others.

You don't need to be a swimmer to aquacise, so register today at the NWC Gymnasium. For more information, call NWC ext. 6542.

## Resurfacing work closes Hall Lanes this weekend

Hall Memorial Lanes will be closed this Saturday and Sunday, August 10 and 11, so that the lanes can be resurfaced. Starting Tuesday, August 13, a new scoring system will be installed. Limited lanes will be opened during this time.

Hall Memorial Lanes staff apologizes for any inconvenience, but reminds patrons that by the end of the week, bowling conditions should be top of the line.



### CERRO COSO COMMUNITY COLLEGE

#### FALL 1991 REGISTRATION Cerro Coso Community College

For registration appointments call 375-5001 July 24 - August 15 from 9 a.m. to 5 p.m. Hearing impaired students may call 375-1001.

#### REGISTRATION:

Continuing Students (By appointment only)

August 5.....1:30-6:30 p.m.  
Continuing Students and New Students not requiring orientation  
(By appointment only)

August 6 & 12.....8:30 a.m.-1:30 p.m., 3:00-6:00 p.m.  
August 7, 8 & 14.....8:30 a.m.-1:30 p.m., 3:00-5:00 p.m.  
August 13.....8:30 a.m.-12:00 p.m., 3:00-6:00 p.m.

New Students (Orientation/Registration - by appointment only)

August 7, 8 & 14.....5:00 p.m.  
August 13.....1:00 p.m.

Walk-In Registration (No appointments)

August 15.....8:30 a.m.-4:00 p.m.

For more information or a class schedule, call 375-5001.

Cerro Coso Community College is closed on Fridays through August 16th  
REGISTER NOW, CLASSES BEGIN AUGUST 19

## Line's visibility may affect fishing

Do fish follow your line, but never strike? According to the Bishop Chamber of Commerce, your line may be too visible. Try switching to a smaller diameter line. A four to six pound test line is great for trout up to five pounds. Any fish larger than this takes an eight to 10 pound line. But remember, the larger the line, the more visible it is to the fish.

The full moon is on the wane in the Big Pine area, meaning fishing should pick up. The Owens River is a good spot for catfish or browns, both are biting on nightcrawlers. If using a lure, try a rainbow rapalla. Big Pine Creek is still the best stream fishing area. Use salmon eggs or powerbait and fish the upper portion of the stream near Glacier Lodge.

Looking for bass? Try Buckley Ponds in the Bishop area. Fishing is slow, but it usually picks up between 6:30 and 8 p.m. Buckley Ponds is not an easy area to fish. Anglers need to cast right up to the reeds, not into them, and retrieve back. Because the reeds like to snag the lures, be sure to bring plenty. For best results, use a spinning lure with chad and have lots of patience.

At Lake Sabrina, fish off the cove area, which is to the right of the marina, and use yellow powerbait or floating nightcrawlers off the bottom to catch browns. South Lake hasn't been used much this summer, and according to the Bishop Chamber of Commerce, the fishing conditions are excellent. Rainbows running up to two pounds are common. Try any type of frog pattern lure and see what hap-

pens!

At Rock Creek Lake, troll in the evening using a rapalla with lead core line and going down about four colors or a triple teaser, chrome and red, on the surface. For shore fishing, try the bank near the stream outlet and fish early in the morning using nightcrawlers, salmon eggs or yellow powerbait. Be sure to fish the bottom. If fishing the creek, use Velveeta cheese or a back ant fly. Chickenfoot Lake has been a hot spot for rainbows. Use a Rock Creek special or mosquito fly.

Lots of limits and large size trout are being pulled from the Convict Lake area. The creek is doing better than the lake, with anglers having the best luck fishing the creek just below the bridge all the way down the campground area. The upper lakes around Convict are producing lots of limits. Try any fly resembling a mosquito or an assortment of powerbait colors.

New rules are in effect at Crowley Lake. Anglers must use barbless hooks only and adhere to a two trout limit (minimum length, 18 inches). Crowley Lake is closed on Tuesdays and is only open from 8 a.m. to 6 p.m. on other days.

Mammoth lakes have been recently stocked, while fishing is picking up in the June Lake loop area.

For more fishing information for the Eastern Sierra area, call the Bishop Chamber of Commerce at (619) 873-8405.

## Slowpitch softball tournament planned



Hitter's/Subway Annual Fall Co-ed "C/D/Novice" Slowpitch Softball Tournament in Ridgecrest is set for Sept. 28-29.

Sponsor trophies will be given to the top three teams, along with individual awards

to the top two teams. All-tournament selections and MVP offense and defense awards will also be given. Selected games will be taped and the videos shown later on during the day. The entry fee is \$140 and the deadline to enter is Sept. 21.

For more information, call Del R. Kellogg at 446-3152, Hitter's Restaurant at 375-2901, or Subway Sandwiches at 446-2448.



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No purchase is necessary to enter. All entries must be received at Checkers no later than August 15, 1991. Entrants must be at least 16 years of age. Employees and relatives of Checkers and KLOA are not eligible to win. The decision of the judges will be final. The winner will have until August 15, 1992 to redeem \$500 worth of free food.

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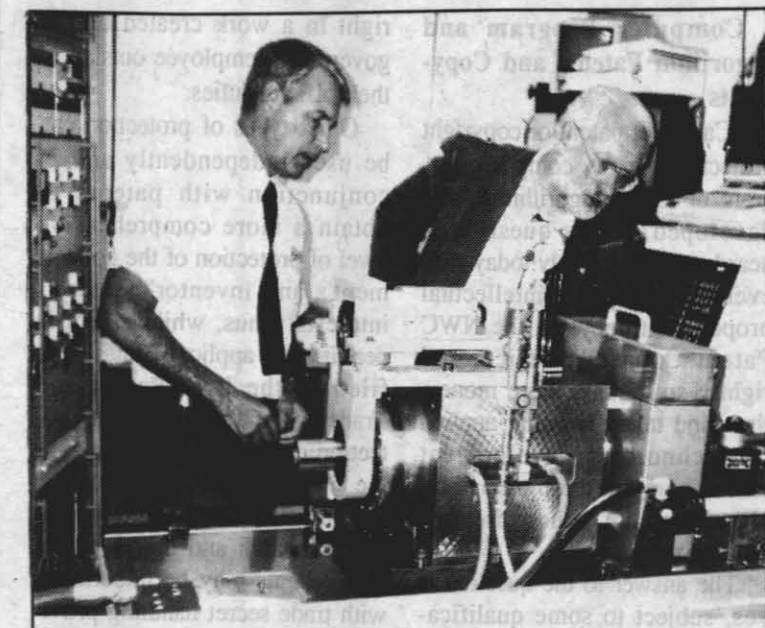
Your Phone Number

Your Suggested New Name

## Research Department shares knowledge with Office of Naval Research Director



**TECHNICAL DISCUSSIONS**--Dr. Mel Miles (center) and Dr. Bob Bush of NWC's Research Department discuss the technology behind their experiment with Dr. Fred Saafeld, director, Office of the Chief of Naval Research during his recent visit to China Lake. NWC Photo



**RESEARCHERS**--Dr. Fred Saafeld (right) director, Office of the Chief of Naval Research, was a recent visitor to the Naval Weapons Center. Included in his briefings was a tour of NWC diamond film growing research facility. Dr. Don Decker of the Research Department's Chemistry Division describes the processes used. NWC Photo

### JPs set Rec Committee meeting for August 15

On Thursday, August 15, the Junior Professional Recreation Committee will have a luncheon meeting at the Seafarer Club, starting at 11:15 a.m. Any JP or Co-op employee is welcome to attend this meeting to finalize arrangements for the potluck picnic planned Friday, Aug. 23, from 5:30-9 p.m. in Solar Park.

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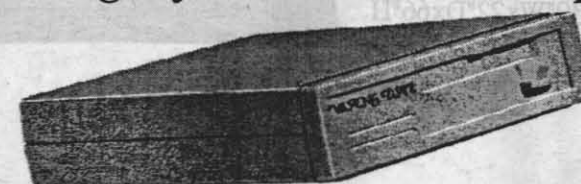
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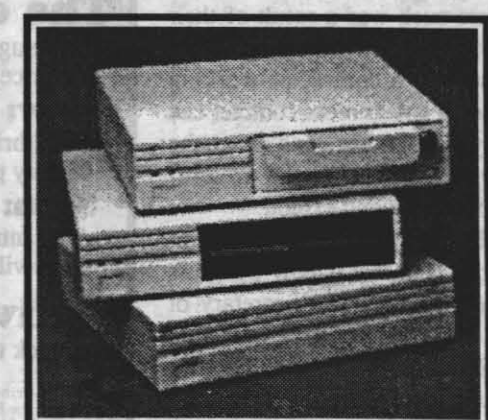
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## From the Counsel

### Computer Program and Algorithm Patents and Copyrights

"Can I get patent or copyright protection for my computer program or for an algorithm I have developed?" This question is heard more frequently today than ever before by the intellectual property attorneys in the NWC Patent Counsel's Office, and rightly so. Today, more money, time and talent is being applied to technology development where computer programs and algorithms are either direct or indirect products.

The answer to the question is yes, subject to some qualifications. First, as the law is changing rapidly in this area, it will depend on the statutory and court-made law in effect at the time protection is sought. Second, it will depend on the author/inventor, together with the Naval Weapons Center attorney being able to translate the program or algorithm into a presentation that satisfies all requirements of the applicable law. Thus, patent protection for computer programs and algorithms may, in general, be obtainable by most applicants, including government employees. The NWC patent attorneys will be happy to seek patent protection that each particular case requires. It can be done, and we can do it!

But... Copyrights are a different story. Title 17 United States Code Sec. 105 declares that copyrights are not available to the U.S. government. Thus, government employees may not obtain copyright protection for their creative, narrative, music, or other artistic works of art such as computer program printouts, coding or other representations where such was a result of their government work assignment. However, a contractor working under a government contract can copyright software and assign the copyright back to the government to hold and exploit.

This may sound like a contradiction, but that is how Congress wrote the law. The Secretary of the Navy has clearly indicated (SECNAVINST 5870.6) that Navy employees can assert copy-

right in a work created by the government employee outside of their official duties.

Other types of protection can be used independently and in conjunction with patents to obtain a more comprehensive level of protection of the government's and inventor's author's interests. Thus, while patent is pending (an application has been filed in the U.S. Patent and Trademark Office) contract protection of "trade secrets" such as the "invention and know-how" is possible. Licensing and Cooperative Research and Development Agreements may be undertaken with trade secret handling provisions. The nature of the computer program or algorithm will usually dictate the kind and degree of protective coverage necessary.

In summary, patent and other types of protection are possible for computer programs and algorithms created by government employees. Copyright is not presently available.

By Harvey A. Gilbert  
Code 006

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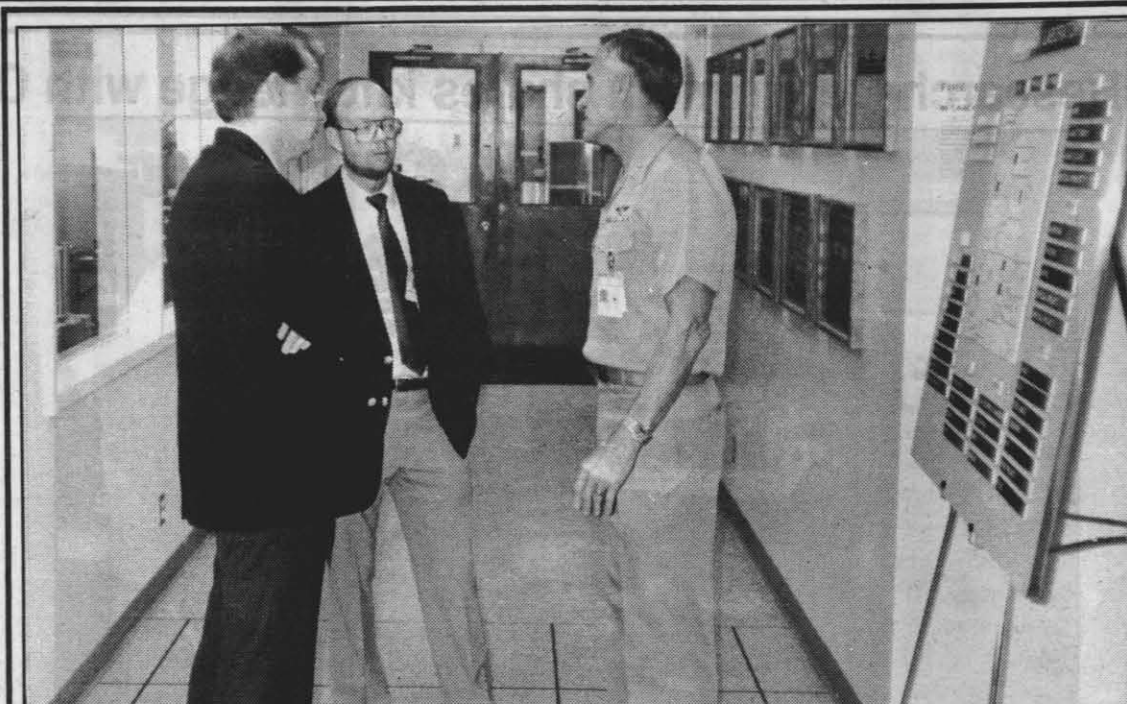
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**PMTc VISITS--**Adm. W.E. Newman, Commander, Pacific Missile Test Center at Pt. Mugu, visited the Naval Weapons Center recently for ongoing discussions on consolidation issues. Talking with RAdm. Newman are Arlo Mickelson (left) associate, head, Intercept Weapons Department and NWC Laboratory Director Sterling Haaland (center). NWC Photo

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# Sports

## Youth basketball league learns about teamwork

With only one more week to play, children in the Naval Weapons Center's Youth Basketball League are showing new skills and demonstrating a better understanding of teamwork and good sportsmanship.

In Division I action, six points by J.D. Martin and four each by Joey Schmierer and Adam Craig fell short, when the Suns were cut down by the Bulls 21-14. The Bulls did not turn in a score sheet.

Teamwork shot the Kings past the Sonics, 70-14, in Division II play. Twenty-eight points by Mark Norlund and 16 by Derrick Mason gave the victors a commanding lead. Other scorers in the win were Daniel Davis (12), Kenny Thompson (6), Chad Skatvold (4) and Curtis Haney (4). Donald Little and Peter Beaudin each shot in five points and Ryan Katzenstein tallied four in the loss.

The Rockets zoomed past the Cavaliers, 72-31, in Division III action thanks to 26 points by Daniel Hartley and 24 points by Lenny Winterly. Additional baskets by Sommai Otto, Jay Norlund, Daniel Peoples, Jonathan Davis and Jeff Blanchette, gave the Rockets an unbeatable lead. The Cavaliers, who were short on players due to vacations, were led by Tiffany McCollum, who scored 27 points. Other scorers in the loss were Brett Thomsen and Chris Maki.

In a close match in Division IV, the Bullets fell to the Spurs, 59-55. Teamwork and 22 points by Tim Clark, along with 15 points by Eric Kline, 10 by Jeff Blanchette and six each by Tiffany McCollum and Chris Maki put the Spurs on top. Mike Terry tossed in eight field goals and Josh Crawford put in five and one free throw for the Bullets. Other scorers in the loss were Armor Agojo, Lenny Winterly and Jay Norlund.

## Bowling tourney set August 24

On August 24, Hall Memorial Lanes will host a No-Tap Scratch Tournament. Choice of squad times are 1, 3 and 6 p.m. The entry fee is \$15 per person, which includes the prize fund. Prize pay off is one in five.

The first place winner will receive a Dule Blue Hammer Ball, while the second place winner will

take home an AMF Single Bag. The third place winner will receive a pair of Endicott Johnson bowling shoes.

Register today! Don't miss out on this one! Be sure to check out the new scoring system and bowling pins!

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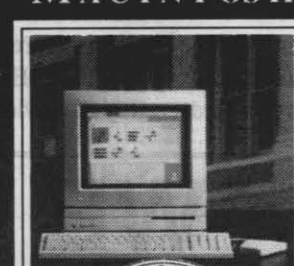
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**NOW WE KNOW OUR ABCs** -- Interaction among the Naval Weapons Center's Child Development Center's staff and the children is a very important aspect in the National Association for the Education of Young Children's accreditation process. In the picture above, Mavis Darnell, a teacher in the Naval Weapons Center's Child Development Center's Toddler Building, knows how to make learning the alphabet a fun experience for her charges, Erica Linard, Albert Brown and Kieani Neher. Photo by PH3 Cary Brady

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## Child care is top of the line

(Continued from Page 15)  
finish each set of modules.

The Child Development Center at NWC is now aided by a parents advisory council, which meets once a month. Members of the council look at the center's policies, review child care instructions and even helped write a new parent handbook developed by the staff. "This group has been very helpful," said Keeter. "I don't know how we got along without them."

Another change involved changing the physical location of the groups of children into a more organized system. Now, infants are all together, as are toddlers and pre-schoolers. Each group's staff only has to worry about the requirements for one particular age group. "It has definitely streamlined our work process," Keeter said.

Another change is improvement of the Daily News Sheets. Each day, the children take home a news sheet, which explains what the child had for lunch, how much that child ate and slept.

Probably the biggest change in the program, however, was the switch to the United States Department of Agriculture (U.S.D.A.) Child Care Food Program. "We now get state and federal funding for some of the costs of our food program, which definitely helps our budget," noted Keeter. "With this funding, we can offer more of a variety and have plenty of food for the children and staff."

While finding good child care can be rough, parents using the Naval Weapons Center's Children Centers are assured they are not only getting quality child care, but top of the line quality care.

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## The Key to Continuous Improvement

We keep asking you to continuously improve your work process. We want to do the same thing with the IDEAS program. We've had several people comment about our articles in the *Rocketeer* and everyone wants to know more about ideas that have been implemented or resolved.

So in keeping with the spirit of improvement and customer service, we're going to add the NWC Announcements as a location to get information about "Sharing Information" and our resolved ideas. We're going to give more facts about the implemented ideas right here

in the *Rocketeer*.

Here are a few of our implemented IDEAS. Idea #008, submitted by William Ross, Code 3108, suggested we store NAVWPNCEN instructions, policies and directives on optical disk making them available via the computer networks for "read" access on remote computer terminals. Marie Gutzman, Code 2151, NWC ext. 2524, said this was an "outstanding" idea and it will be implemented as soon as they can acquire the appropriate software that will handle forms layout and maps that are part of the directives.

## CLWISE schedules luncheon

Join the China Lake Women in Science and Engineering (CLWISE) during their bimonthly luncheon at the Carriage Inn Banquet Room on August 21 from 11:30 to 1 p.m.

Sterling Haaland, NWC Laboratory Director, will present *Listening to the Future*, a presentation looking at future trends. This includes topics like the consolidation, lower defense budgets, world threat conditions, hiring

freezes, work for 2000, Total Quality Leadership (TQL), concurrent engineering, in-house hands-on work, new DoD 5000 series, tech base investments and listening to customers.

Please RSVP by August 19, 4 p.m. Make checks for \$5.75 payable to the Carriage Inn (with drivers license number and date of birth) and mail to Barbara Vaughn, Code 3135, or call NWC ext. 4770.

Idea #039, submitted by Diana Heeke, Code 35031, suggested that Security sanction the use of a sticker placed on degaussers to indicate those approved for degaussing classified media. Bill Shaner, Code 2408, NWC ext. 2079, agreed this was a good idea and would assist users in knowing which degausser to use for classified media. He is arranging to have stickers printed and placed on the machines as suggested.

The IDEAS program is not just for the civilian employees at NAVWPNCEN as Ideas #062 shows. Capt. James Williams, Code 26, thought the Plan of the Day (POD) should be more accessible than just picking it up

in the Admin Building. He suggested distribution be available through electronic mail. Lt. K. Addicott, Code 211, responded saying this is now in the acquisition phase. The POD will be generated on their Macintosh and once the hard copy is signed, it will be available through QuickMail. He adds that this is a more efficient system.

So you see, the process does work. How about you? Are you making changes in your work process? If you are let us know, we'll help get the word out.

If you have questions, we'd be glad to talk with you. You can reach the IDEAS office at NWC ext. 2311, EMail - SCF:IDEAS or QuickMail - Code\_27\_QM

(M. Truesdale or B. MacIntosh).

In the last week these new Ideas were submitted: No. 149, Doors for Michelson Lab, George Teate; No. 150, Michelson Lab Parking, Vic Walking; No. 151, Retirement Seminars, Allen Jones; No. 152, Shop Stores Packaging, Gregory Hartmann; No. 153, Smart Card for Travel, James Rudeen; No. 154, Visitor Check-In, James Rudeen; No. 155, Emergency Aircraft Lighting, Jack Marchetti; No. 156, Bad Charges Certification, Bill Eastman; No. 157, Monetary Restrictions on DEMO ratings, Katrina Nason; No. 158, W-2 Reporting Procedures, Denise Gransbery; and No. 159, Photo Approval at Airfield, Mark Lambert.



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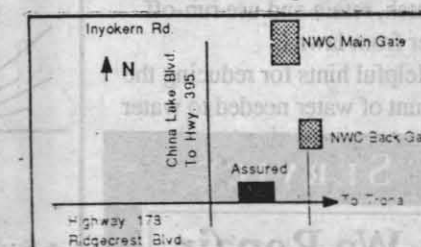
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## Wise water users sought

Hot weather is here again. Each summer, residents are reminded about the use of water. Careful use of water is a sound policy in any desert environment. The Center has reviewed its own ground water management policies and ground water data for the Indian Wells Valley.

Though the Indian Wells Valley has received only 60 percent of normal precipitation this year, it appears there is enough ground water for the Valley. But, conservation remains important because of the water depletion caused by years of drought.

Some guidelines have been developed for domestic water users at NWC. A reduction in water use for landscapes is encouraged and can be implemented by using:

- low water plants,
- ground covers and shrubs instead of grass,
- low precipitation heads in irrigation systems properly located to minimize overspray,
- a post-installation maintenance program with an appropriate watering schedule,
- borders, flower beds and the like to catch, retain and use run-off water from lawns.

Helpful hints for reducing the amount of water needed to water

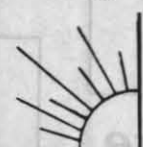
lawns include:

- periodic aeration of soil to increase absorbency,
- use of appropriate irrigation equipment,
- sprinkler placement and flow regulation,
- use of a timing device so lawns are watered during early morning or late evening hours,
- prompt leak repairs
- regular sprinkler head debris removal

Wash vehicles from a bucket, quickly rinse using a hose equipped with a shut-off nozzle. Sweep driveways and sidewalks with a broom rather than rinsing.

NWC personnel are asked to report residential water leaks, malfunctioning sprinklers and inappropriate or excessive watering to Jerry Chisholm at the Housing Office (NWC ext. 3411, ext. 342). Administration or recreational area problems should be reported to NWC Contract Surveillance Representative, Jo Smith, at the Base Operating Contract Surveillance Branch (NWC ext. 6555 or 3828).

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## Wellness Corner

NWC ext. 4812; Tug of War, Code 24, Becky Souza, NWC ext. 2079; Softball Tournament, 232, Ken Presley, NWC ext. 2911 (237); Volleyball Tournament, Code 34, Sue Dunker NWC ext. 2421; Push-ups, Code 32, Sandy

Brown, NWC ext. 7418.

We are in need of additional events such as swimming, bicycling, and running. If you are interested in coordinating or assisting, please contact the Wellness Office, NWC ext. 2468.

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## NWC's child care program recognized

(Continued from Page 14)

Keeter. Out of those 11 items, six were non-validated because the validators rated us higher than we did. Only in five areas, did the validators rate the items lower, she added.

Criteria reviewed were broken into 10 separate areas, encompassing interaction between staff and children, curriculum, physical environment, health and safety, nutrition and food service, staff and parent interaction, staff qualifications and development, administration (physical records, advisory councils notes, long term planning, etc.), staffing patterns and evaluation (methods for looking at the program and evaluating its effectiveness).

Following this process, the findings are sent to a NAEYC commission, a three-person panel of professionals, including, said Keeter, people such as the head of the American Academy of Pediatrics. This panel reviews the data and decides if the child care program meets the specifications needed for accreditation.

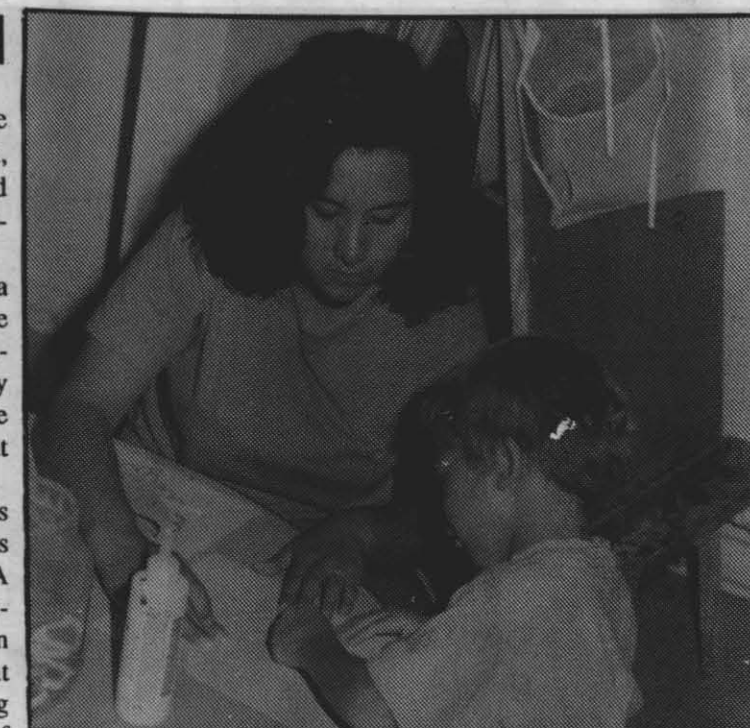
While the accreditation process is a good way to measure a child care program, Keeter feels they must work for even better quality. Since being

accredited three years ago, Keeter and the staff have made a number of changes which, in her opinion, have improved the program, including improved training for staff, a parents advisory council, streamlined work processes and a better food program.

Quality child care would be impossible without a trained staff, Keeter commented. To help ensure the best possible training, the Navy now has a standardized care giver training program. This self-study program includes 14 modules staff members are required to work through. There are three different sets, one for infants, toddlers and pre-schoolers.

After a module is completed, a written test is given, graded and kept on file. Once the test has been passed, a competency assessment is given. A trainer, usually the program's training and curriculum specialist or a staff member with a degree in child development, observes the care givers at work. If they show they know what they are doing in the classroom, through practical application of the items learned from the module, they graduate to the next module level.

Keeter noted it takes approximately 18 months to (Continued on Page 16)



**WORKING TOGETHER** — Diana Gutierrez, a JTPA participant, is receiving experience working with children this summer. Above, Gutierrez helps Aaron Poindexter create his own masterpiece.



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# MWR

## Child Development Center earns second accreditation

*Process recognizes extremely high quality programs*

By Peggy Shoaf  
Rocketeer Staff Writer

Three and a half years ago, the Naval Weapons Center's Child Development Center jumped to the top of the pack in military child care programs when it became accredited by the National Association for the Education of Young Children (NAEYC). Now, by keeping the high standards leading to this accomplishment, while improving the program, NWC's child care program has once again earned the honor of being accredited.

Today, the program, which cares for 165 children ranging from ages six weeks to five years old, is one out of only seven Navy and 11 military accredited child care programs. It is also the only accredited child care program in the Indian Wells Valley.

"The NAEYC is to the child care profession what the American Medical Association is to doctors," noted Keeter. "While the NAEYC knows there are minimum standards set for child care, they wanted to recognize the extremely high quality programs. With that in mind, they developed extensive standards a program must meet and a method which verifies that they are being met."

The first two of three steps in this process are handled by the program requesting accreditation and the third by the NAEYC.

The first step is self-study -- the staff analyzes their own program, using NAEYC guidelines. Parents of children attending the program also participate by filling out questionnaires pertaining to their child's classroom. Each class is then rated in accordance to the criteria developed by NAEYC which is verified against the information supplied by parents and staff.

Keeter's first task upon coming onboard more than three years ago was to complete the self-study portion for the first accreditation. "Even though the process had already been started," Keeter explained, "we still had a lot to do and had to get it off in record time. I still feel we were

rushed for that accreditation."

Once again, the staff didn't have much time to complete the self-study. Even though the deadline was approaching, they had to wait to see what the impact of the Military Child Care Act would be, to see if the program would undergo major changes. "We didn't know if we were going to have an Enrichment Program, part-time hourly care or even if we could still care for civilian dependents," said Keeter. "We had to wait."

Once the impact became known, and the staff knew where they stood and how the program was affected, the package took two and a half months to com-

plete.

After that information was reviewed, NAEYC appointed two validators to verify it. During the two days they were here, Keeter noted, 169 items were reviewed and rated. "They reviewed everything! And I mean *everything*!" she said. It was more of an in-depth inspection than I have ever received from any other institution, including SPAWAR and the Inspector General."

Out of the 169 criteria reviewed, just 11 were non-validated. Non-validation simply means there was a disagreement between the validator's and the Center's own ratings, explained

(Continued on Page 15)

## What's happening at NWC

Registration is currently underway for NWC's Youth Fall Soccer League. The season runs from Sept. 21 through Nov. 23. For more information, call the Youth Center at NWC ext. 2909.

###

Have quality family fun roller skating at the NWC Youth Center on Tuesdays from 5:30 to 7:30 p.m., Saturdays from 1 to 4 p.m. and on Sundays from 2 to 5 p.m.

###

Give the gift that all ages appreciate. For only \$15, send a dozen helium filled balloons to the one you love, to friends or relatives. Balloon-o-Grams are delivered by a costumed character. For more information, call Tami Dickerson at NWC ext. 2909.

###

Christmas in August? You bet! Christmas arts and crafts classes are now forming at Craftech. Also, if you desire a special holiday greenware item that Craftech doesn't carry, stop in and place your special order.

###

If you're selling a truck, car, RV, boat, motorcycle, or even a trailer, place it on the NWC Lemon Lot! Call NWC ext. 2346, today!

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## ARS effort now shows results

(Continued from Page 1)

first actual flight tests are scheduled for next month.

In addition to evaluating the new launcher, tests are scheduled using the LAU-61 to develop baseline data use to compare the two launcher systems. This information can then be used in evaluating proposals for the NAVAIR-awarded Advanced Rocket Sys-

tem development contract.

For the Navy and Scaled Composites, the AKS project is bringing mutual benefits. The Navy has a low cost, quick reaction contract and gets a single proof-of-concept launcher to evaluate. Scaled Composites, head by framed aircraft designer Burt Rutan, will use its own ARE prototype single-engine jet "mud-fighter" to carry the ARS launchers in the flight tests.

The prototype aircraft is currently fitted for a 25 mm cannon,

but can also carry air-to-air missiles. Demonstrating a capability to carry a rocket launcher is expected to be a plus for the contractor.

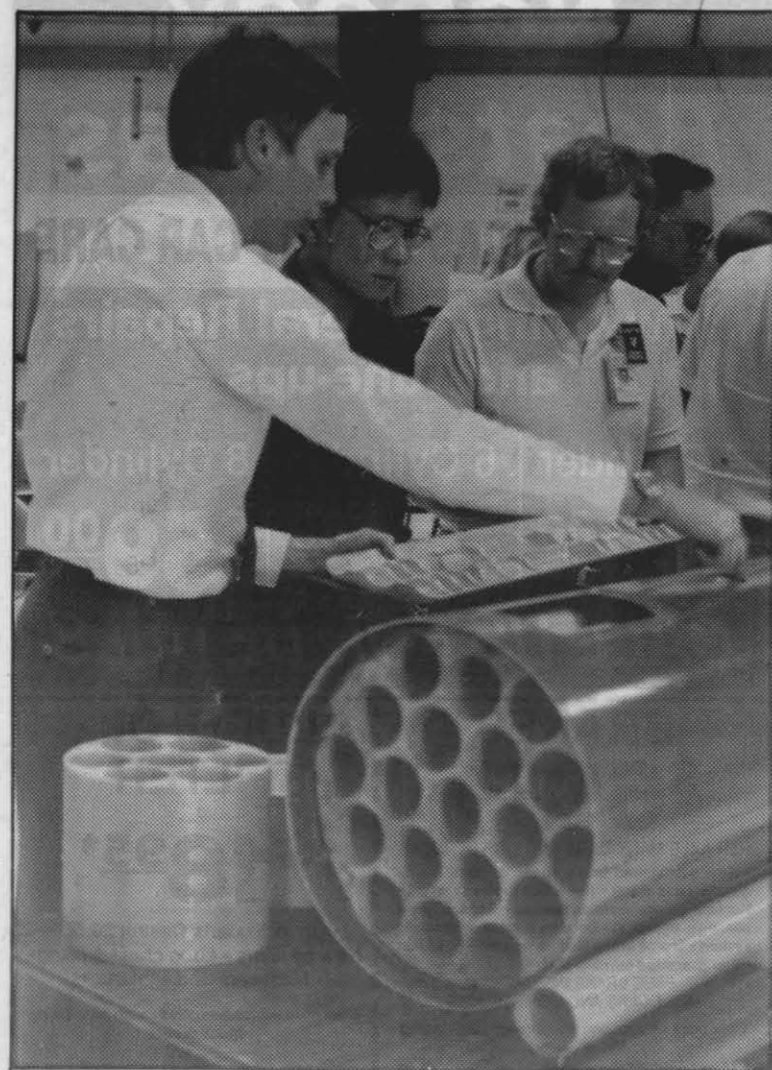
Eiband noted there are issues remaining to be resolved before the final report is made. These issues include using a flame-sprayed aluminum liner on the launcher tubes rather than just composite tubes; the amount of wear on front fairings from rocket

motor exhaust and use of metal bulkheads inside the launcher.

Advantages, in addition to lighter weight, of the composite launcher, noted Eiband, may include improved insensitive munitions properties, since the composite is likely to melt, rather than contain an explosion in case of a fire; the small amount of metal used, combined with the radar absorbing paint could present a dramatically smaller radar

cross section and the potential for getting as many as 25 rocket launches from each tube. It may even be possible to just slide a new tube in place on the existing launcher if a single tube is worn out.

Eiband said this was the first piece of new technology to come out of the Advanced Rocket System Project and a significant step in the right direction and it's on time.



ARS LAUNCHER--Dave Eiband, project manager talks about the ARS launcher with Mike Hsu of PMTC and Don Bell of NWC's Code 30. Photo by Steve Boster

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# Washington Scene

## Congress would send women flying into combat next time

Washington (NNS) -- The Senate voted July 31 to overturn the 43-year-old law barring women from flying aircraft in combat, paralleling a measure passed by the House of Representatives last month.

The bill to modify the exclusion rule was drafted as an amendment to the \$291 billion defense authorization bill for fiscal year 1992. While it does not mandate assignment of women aviators to combat aviation billets, the ruling would permit DoD and service secretaries to allow women to fly combat missions.

The Senate also passed a separate amendment authorizing the Secretary of Defense to waive all restrictions on women in combat positions to test their effectiveness over a 14-month period. During this test, a 15-member presidential commission on the assignment of women in the armed forces would examine the results and make recommendations to Congress regarding the potential for women serving in all combat positions.

The Senate bill must then go before a conference committee of both houses of Congress before a final authorization bill can become law. The senate is expected to vote on its version of the defense authorization bill by this weekend.

"If the law is changed, the

Navy will support fully any resulting policy revisions the Secretary of the Navy or Defense may make," Chief of Naval Operations Adm. Frank B. Kelso II said in response to the vote. "I

am committed to seeing that Navy women have every professional opportunity available to them under the law and defense department policy."

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## Test facility just looks like a new movie set

By JOC Carloyn A. Dettling

Looming above the desert, looking much like the set from a new science fiction movie, is a new Naval Weapons Center test facility for carrier deck fire fighting studies. The unlikely looking simulated carrier deck is the product of several months work by a skilled team of China Lakers representing several departments and disciplines, ranging from the Public Works to Research departments.

The 50-by-50-foot simulated deck was planned and built at NWC on the old K-2 gun range over a period of several months in support of testing for combined effects of JP-5 aircraft fuel, AFFF fire fighting foam and other weapon-related materials on fire fighters wearing currently employed crash suits.

The deck itself is fitted with regulation carrier deck sprinklers, while fifty feet away stands a bank of huge swamp buggy engines with long mahogany fan blades to provide realistic at-sea wind conditions. Between the two run railroad tracks bearing a robot fire fighter dubbed P-406 by the crew.

P-406 is a clever device designed to simulate a Navy fire fighter approaching a deck fire. Initially crouched in front of the fans so as not to interfere with wind/fire interaction, it rises to proper height as it moves along the tracks toward the deck, manipulating a fire hose as it nears the fire. Cameras track every movement as it is directed from the facility's control room.

That's another thing about this outlandish facility - everything is operated

remotely. Because of the hodgepodge of emissions expected, it's advisable the test crew remain in the control room during the tests. This means remote control for all systems down to the tiniest detail, such as covering the anemometer before dispensing AFFF, which would gum up its works.

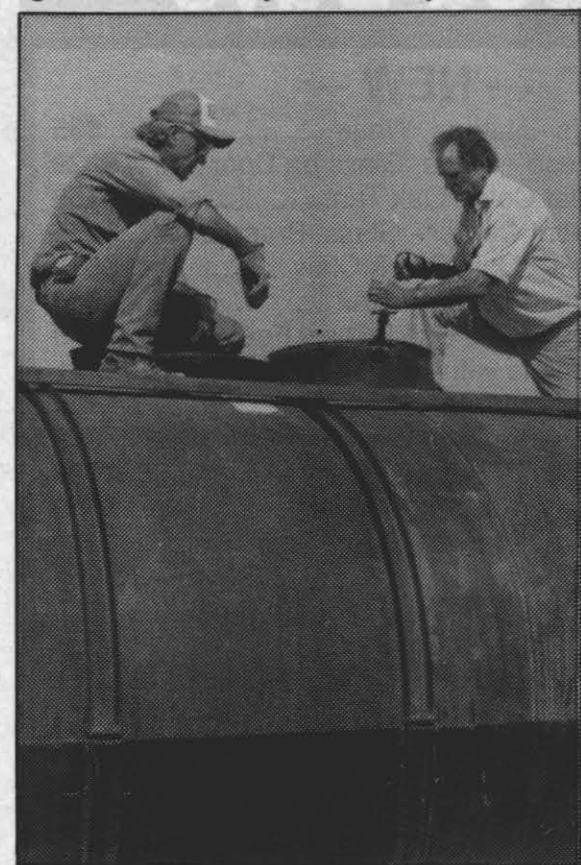
Operating remotely may make all the sense in the world, but orchestrating such operations can turn into a nightmare of *Twilight Zone* proportions. Just think of the miles of wire involved to run deck sprinklers, propane fire igniters, JP-5 dispensing systems, wind generator fans, cameras, the pumper truck and anemometer, and P-406 himself. And the wire isn't all. The plumbing to allow the flow of water to the sprinklers and P-406 from a fire department pumper truck more than a hundred

yards away, the maze of pipes under the deck and to the sprinklers, the 420 feet of four-inch lines to carry waste liquids away to massive storage tanks required complex planning and labor-intensive installation.

Working conditions for the construction crew haven't been what you would call auspicious, either. Typical desert summer days have brought the strongest men to the point of exhaustion. Rivers of Gator Aid have been consumed, and none of them have needed the services of local suntan parlors.

Working with extra concentration this week, the crew hurries to complete final details for testing scheduled to begin next week. They'll find satisfaction in seeing the fruits of their labors put to use...that and the extraterrestrial wrap-up party.

**DECK DUTY--Al Chieze, Jim Neighbors and Bud Dickson connect a waste drain pipe (right) to the effluent catch pipes surrounding simulated carrier deck. Corvette engines power the wind generators in background. Photo by PH3 Brady**



**STORAGE TANKS--Bud Dickson and Ron Smith (project engineer) inspect one of the three 4,000-gallon capacity waste storage tanks brought in for use during upcoming carrier deck fire fighting studies (left). Below, employees from Range, Public Works and Ordnance Systems departments briefly pause from their labors. From left: Marion Egbert, Tom Clark (Comarco), Jim Knott, Al Chieze, Jim Neighbors (front), Bud Dickson, Ron Smith, Mark Henderson, "Van" Vanover, Shorty Schneider and Jim Crow. Photo by PH3 Cary Brady**



### Teamwork defeats project challenges

By JOC Carloyn A. Dettling

Lying in wait to receive effluent from upcoming carrier deck fire fighting studies, huge waste storage tanks are connected to K-2 Range's simulated carrier deck drain system by over 400 feet of four-inch steel pipe. The deck has 2600-gallon capacity catch pipes to accommodate liquids during the first phase of their long journey to the tanks.

Planning for such waste capture, storage and removal was completed using guidelines provided by NWC's Environmental Projects Office.

As rules and regulations designed to protect our environment become more stringent, old Center facilities fade into obsolescence and new ones must meet codes. This can be a true challenge, as the process is evolving even as construction is underway in this case.

Decisions are made and rules literally written on a daily basis, causing consternation in all quarters and requiring intense coordination and cooperation between environmental experts and planners and builders.

The K-2 simulated carrier deck is a case in point. Without close interaction between departments and the environmental group, testing could have been delayed indefinitely. At the risk of running the term "team spirit" into the ground, that's the kind of attitude the players in this challenging game maintained while walking the fine line between preserving the Valley's air and ground quality and getting a job done.

Meanwhile, the tanks quietly wait to guzzle next week's cascade of dregs.

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