

Rideshare officials urge commuters to tie yellow ribbon on carpool vehicle and support troops

Kern Rideshare has launched a public service campaign. Yellow ribbons will be given to all commuters who request free rideshare information in February. Rideshare officials are asking commuters to tie the yellow ribbon to the antenna of a carpool vehicle to represent

support for American troops. It also signifies fuel conservation. Kern Rideshare offers a free computerized carpool matching. The computer matches commuters with others in their immediate neighborhood traveling to a similar

work destination each day. There are currently more than 1,700 commuters in their carpool database -- including people working at China Lake. Free carpool matchlists and ribbons are available to all Kern County residents by calling (805) 832-RIDE.

BOSTON STORES ONE DAY SALE. WHAT A DIFFERENCE A DAY MAKES!

15% off everything in the store including items already on sale at 25-50% off.

"15% off everything! Happy Days are here again."

"Don't you mean Happy Day?"



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TAKE AN ADDITIONAL 15% OFF ITEMS LIKE THESE:

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 Selected famous maker coordinates. Sale 25% off.*
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 Selected Junior pants. Assorted styles, colors and fabrics. Sizes 3-13. Reg. \$30-36. Sale 33% off.*
 Selected Spring sleepwear. Sale 40% off.*
 Selected famous maker sleepwear. Sale 33% off.*
 Entire stock of regular price Olga, Exquisite Form, Playtex and WOW by Playtex Limited foundations. Sale 25% off.*
 Selected vinyl handbags. Sale 33% off.*
 Entire stock of straw handbags. Sale 33% off.*
 Entire stock of regular price Tacoa jewelry. Sale 50% off.*

MEN
 Imprint shirts. Banded bottom styles. Reg. \$30. Sale 40% off.*
 New Works tops and shorts. Exciting new colors. Reg. \$24-40. Sale 40% off.*
 Entire stock of Haggard slacks and sport coats. Sale 25% off.*
 Entire stock of dress shirts and ties. Sale 25% off.*
 Jockey underwear. Sale 25% off.*
 Prince Gardner wallets. Reg. \$20. Sale 50% off.*
 Bugle Boy regular price tops and bottoms for Young Men. Sale 25% off.*
 Entire stock of PCH tops and bottoms for Young Men. Sale 25% off.*
 Robert Stock solid pique knit shirts for Young Men. New Spring colors. Reg. \$20. Sale 25% off.*

CHILDREN
 Hush Puppies playwear for Boys. Newborn & Infant boys sizes only. Reg. \$15-20. Sale 25% off.*
 Entire stock of OshKosh playwear. Infants, Toddlers, Girls 4-6x, & Boys 4-7 sizes. Reg. \$11-40. Sale 25% off.*
 Cherokee belted sheeting pants for Girls. Sizes 7-14. Reg. \$25. Sale 25% off.*

HOME
 Muslin sheet sets. Permanent press. Values \$20-50. Specials \$9.97-29.97.
 Laminated rattan place mats. Natural color. Value \$5. Special \$1.47.
 Decorative Easter merchandise. Choose from figurines, baskets, gift bags, and eggs. Sale 25% off.
 "Georgetown" 3-piece oven set by Toscani. Value \$30. Special \$19.97.

15% discount taken at register. *Discount taken at register. Some items not available in some stores. Intermediate markdowns may have been taken.

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Feb 21, 1991

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	Max	Min	Peak Gusts
Wed.	76	37	10
Thurs.	77	37	8
Fri.	77	43	17
Sat.	75	43	22
Sun.	70	45	26
Mon.	72	38	22
Tues.	72	31	12

Congress supports 'Flying the Flag'

One of the co-sponsors for Resolution 44, which encourages Americans to display the flag in support of our troops in the Persian Gulf, was Congressman Bill Thomas who represents the Indian Wells Valley. "There is nothing quite like the 'Stars and Stripes' to symbolize pride in our countryman, our service members and our cause," said Thomas.

Americans flying the flag portrays to the outside world that the American people are united in the support of Operation Desert Shield. Display your flag now!

Mail restrictions eased for Saudi

Saudi Arabia (NNS) -- Weight restrictions for mail sent from Operation Desert Storm was increased from 11 to 16 ounces this week, but the U.S. Central Command postmaster requested the continued support of friends and families in limiting inbound mail to first-class letters and audio cassette tapes.

The limitations are expected to ease demand on airlift and transportation support needed during offensive operations.

Although weight restrictions will vary according to Desert Storm operational requirements, mail content restrictions will remain constant.

According to Maj. Michael H. Whitaker, Central Command postmaster, alcohol, pornography, pork products, weapons and bulk shipments of religious materials are considered contraband and will be confiscated.

Contraband rules are set by Saudi officials.

NWC Rocketeer
 Naval Weapons Center, China Lake, California 93555-6001
 Vol. XLVI, No. 7, February 21, 1991

New blue laser possible for Navy

Basic research undertaken in the Research Department's Chemistry Division may lead to new laser materials, in particular, a crystal lasing in the blue-green region of the spectrum. Mike Seltzer and Marian Hills say their research along this line may have promise in development of communications links between submarines and aircraft or submarines and satellites using blue-green lasers.

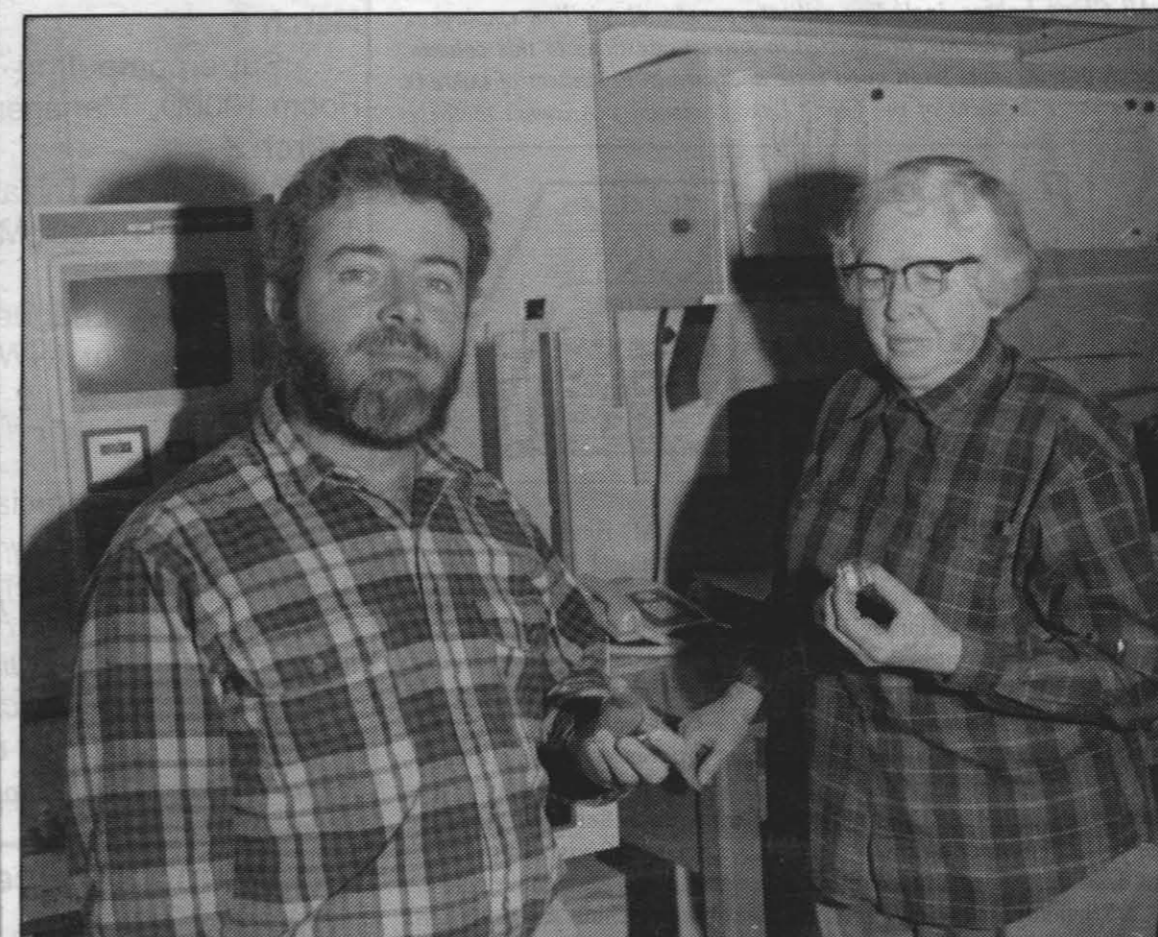
Seltzer noted laser light in the blue-green region of the spectrum is transmitted very efficiently through seawater relative to other wavelengths and can penetrate to considerable ocean depths.

One feature of particular interest is the theoretical prediction that this material, when it lases, will do so at the 455.5 nanometer wavelength. Seltzer said this is important because the Navy already has a detector, or laser receiver, that detects laser light at the 455.5 nanometers and blocks out all other light wavelengths. No existing laser generates blue light directly at this wavelength.

The rare-earth doped garnet Seltzer and Hills have been working with for possible use in a solid state blue laser is thulium doped yttrium scandium aluminum garnet (Tm³⁺:YSAG). They also noted there is research underway elsewhere on other thulium doped crystals for development as lasers, but none that generate light at the wavelength the Navy is looking for.

Spectroscopic analysis of this material suggests to the two researchers they can indeed get it to lase at the desired wavelength. The first indication of the potential suitability of this material came when the NWC researchers found it was strongly fluorescent in the blue region of the spectrum when excited.

Previous attempts to develop lasers in the blue-green region emphasized laser dyes which have the disadvantage of degrading over time. More recent attempts have included the frequency conversion of lasers operating in the near infrared region of the spectrum. Laser frequency conversion is both complex and inefficient. Seltzer and Hills think a laser (Continued on Page 9)



LASER RESEARCH--Mike Seltzer and Marian Hills show two crystals used in their research toward possible development of new laser materials. The Research Department team feels they have found a crystal that will lase in the blue-green region of the spectrum and is a promising candidate for a communications laser system. Photo by PH3 Cary Brady

First time seminar set at NWC

On Friday, March 8, the Naval Weapons Center hosts the first Indian Wells Valley Multi-Organization Technical Seminar. The event, held in Room 1000D, Michelson Laboratory, from 8 a.m. to 4:30 p.m., offers technical briefings sponsored by AIAA, NCMA, ASPA, ASMC, SIGADA, ASQC, SOLE and EKLSA.

This seminar is a review of trends for the total environment of weapon system development. Documentation for training credit will be furnished to all attendees. In one day, learn what is developing for the future in these specialties with a role in systems development at NWC. Topics include:

- AIAA -- The Low Drag Ram Jet Air-to-Air Missile. By Scott Fuller, Code 3271, NWC.
- NCMA -- Procurement Technology and Innovation -- Putting Contracts in the Flow. By Diane Foucher, Code 253, NWC, Procurement Technology.

(Continued on Page 6)

Squadron deploys to NAS Fallon

Air Test and Evaluation Squadron Five (VX-5) deployed to NAS Fallon, Nev., with 14 airplanes and approximately 300 personnel for two weeks in January. The purpose for squadron movement was to develop F/A-18 Lot XII night strike/fighter tactics, to ensure all aircrew were tactically proficient and to exercise the mobility of the squadron. Sorties were flown in combination with VX-4, the Naval Strike Warfare Center, United States Air Force's F-15's and F-16's from VF-43.

Strike packages, with an average of 14 airplanes each, were flown against real world threats in real world scenarios both day and night. F-15 Eagles and F-16 Falcons were our air opposition. Vampire Intruder, Hornet, Harrier and Corsair aircrew dropped 75,800 pounds of live ordnance on target complexes within the Fallon ranges, an accomplishment which would not have been possible without the efforts of Lt. Tom "Gunner" Sanford and the rest of the VX-5 Ordnance Branch. (Continued on Page 7)

Commentary

ROCKETEER CLASSIFIEDS

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Feb. 21, 1981
Central California Airlines started daily air passenger service between Inyokern's Harvey Field and Lockheed Terminal in Burbank using 30-passenger DC-3 aircraft. . . The 1951 March of Dimes Polio Drive collected an all-time high from NOTS residents of \$4,818.46. . . C.H. Wilson of project engineering was named to head the Sierra Wave Project. . . Carl Sandidge, the first civil service employee assigned to NOTS, left the desert for a job with the Navy in Washington, D.C.

Feb. 18, 1966
After seven years of development and test at NOTS, the Red-eye anti-aircraft missile was sent to White Sands for the proof-firing testing stage. . . NOTS Commander, Capt. John L. Hardy, and his wife were senior guests of honor at the 11th Annual CPO Military Ball. . . USC's dean of the school of engineering was the featured speaker at the Indian Wells Valley observed National Engineers Week.

Feb. 21, 1981



QUESTION

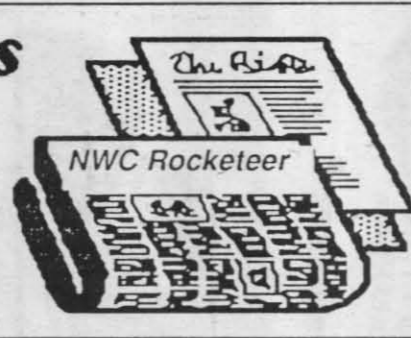
I am calling about having dead bolt locks installed in our housing units on Center. I talked to the Housing Office and they said they won't install them. It makes sense to have them installed just for the added security. Thank you, sir.

ANSWER

Front and back door locks are re-keyed during each change of occupancy. Additionally, various types of locks are available in the self-help store, including barrel locks, chain guards and window locks. The installation of dead bolt locks are now included in our FY92/93 improvement projects. Improvement projects are funded separately and our requests for these funds are in competition with other housing activities. I appreciate your initiative in bringing this to my attention and I believe it does have merit in that it would improve the security in our family housing units.

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

Pages from the Past



Bruce M. Heydlauff won the NWC Technical Director's Award for work on a digital moving screen display system. . . Local military women volunteered to take part in strength tests as part of a DoD policy to open more jobs to women in the military. . . The Fifth Annual Soldering Technology Seminar attracted more than 350 visitors to China Lake. . . Jerry Reed, now AIR-6A was back at China Lake to discuss range modernization with Technical Director Bob Hillyer and Bill Hattabaugh, Code 06.

Feb. 21, 1986
Capt. Ken Dickerson, NWC Commander, did the ceremonial ribbon cutting to open the Training Center following a major rehabilitation effort. . . Capt. Dickerson announced B.W. Hays, Technical Director, had been offered the job of Director of Navy Laboratories in Washington but had not announced if he would take it. . . Seabees from RNMB 17 brought their well-drilling training camp to the desert and drilled four test wells

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.

China Lake Calendar

Feb. 22

. . . hIDEA/ROA National Engineers Week Dinner, 6 p.m., Carriage Inn

Feb. 26

. . . Grand reopening celebration for NWC Gymnasium, Noon

March 5

. . . Supercomputing Forum, Michelson Lab, Room 1000D, Management Center, Theatre

March 8

. . . IWV Multi-Organizational Technical Seminar, 8 a.m., Room 1000D, Michelson Lab

March 9

. . . IWV Navy League Bluejacket of the Year Banquet, 6:30 p.m., NWC Seafarer Club

Coming Events

April 5, Retiree Appreciation Day
May 6-7, Annual Safety Standdown
June 4-8, American Heritage Week Celebration

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

Networking service has new number

As of Feb. 25, the Networking Services Branch, Network Services Desk will change its telephone number from NWC ext. 2338 to NWC ext. 6661 to provide customers better service. The old number was a single line phone with no expansion capabilities. The new number (NWC ext. 6661) is a three (3) line rotary so customers should not get a busy signal when calling the Network Services Desk for assistance or to place a trouble call.

The Network Services Desk has been integrated with the Network Management Center. This allows network management the capability to communicate with the customer at the time of the trouble call.

Michelson Lab security note

Due to implementation of THREATCON BRAVO, the west gates of the Michelson and Lauritsen laboratories will be closed to all normal vehicle traffic until further notice. The only exceptions pick-up and deliveries, then only if no other way is available. Each instance must be cleared by the facilities coordinators office, Code 033, ext. 1212/1213 and will be kept to an absolute minimum (15-30 minutes).

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

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

1 PERSONALS

SWM, 37 trim, prof'l, enjoys art, movies, hiking, reading, has it together (arms and legs still intact!), seeks positive natured, bright, 26-44, post-neanderthal SWF with sense of humor. Prefer non-smoker, no drugs. Send note and phone number to: Post Cro-Magnon, P.O. Box 1415, Ridgecrest, Ca. 93556.

35 AUTOMOTIVE

'81 Ford Courier Pick-up, AM/FM/CASS. Runs. \$500/OBO. 375-6055 after 4 pm.
'83 Chevy Impala - Good Runner, low mileage, A/C, AM/FM/CASS. \$2,250/OBO. 446-2740.

1988 CHRYSLER CONQUEST TSI - 2.6L Turbo - Loaded, still under warranty. MUST SELL! \$8,800/OBO. Leave message 446-2604.

1988 FORD MUSTANG GT. Low Miles, All Power Options. Black outs, New Goodyear Eagles, A/C, Am/Fm Cassette Stereo. New Brakes, Alarm. 5 Speed. Blue Book \$10,000. \$8,900 Firm. Immaculate. 375-9273.

1989 JEEP CHEROKEE, 2WD, 2DR, & 4.0 V-6. Excellent condition. Selling because we need a 4-DR. \$13,000. Leave a message at 446-1610.

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ROOM FOR RENT: Mature, non-smoker need only apply. 375-2542, leave message.

30 SERVICES

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LIC.#427485 375-1439

50 PETS/SUPPLIES

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55 REAL ESTATE

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Community Events

Community Events

Community Connection for Child Care is presenting a complete series of parenting tapes over the phone.

Feb. 23 - Mar. 1 -- Coping With Stress! Common reactions to stress and ways to handle them. To listen to the tapes listed above please call 375-0446.

China Lake Players will be holding auditions for Woody Allen's romantic farce *Play It Again, Sam*. Tryouts will be held Mon. through Thurs., Feb. 25-28 at the old County Courthouse, on Ridgcrest Boulevard at 8 p.m. on the 25th and 7:30 p.m., the

following evenings.

Maturango Museum will have a Saturday Adventure Feb. 23, at 2 p.m. Bob Week will give a 3-projector show of underwater life. Admission is free. Call 375-6900.

American Heart Association's *Jump Rope for Heart* is scheduled at the Desert Empire Fairgrounds on Feb. 23. The event will begin at 9 a.m., check-in at 8 a.m. Those wishing to participate are asked to leave a message at 371-

4301.

Community Connection for Child Care's "The Kid Konnection" is offering "Lets Play" a workshop on how to organize, develop and run a playgroup for young children. It will be held Feb. 27 from 7-9 p.m., at 237 W. Ridgcrest Blvd., Suite D. Call 375-3234 to reserve a space.

Two 55/Alive Mature Driving Classes are set for March 7 & 8 from 10 a.m., to 3 p.m., and one from 6 to 10 p.m. the same night. Both classes will be held at the Knights of Columbus Hall, 725 W. Ridgcrest Blvd. To enroll, make a check for \$8 per person to the American Assoc. of Retired Persons and mail to coordinator, Bill Davis, 235 Apache Lane, Ridgcrest.

Order yours now

Orders are now being taken by volunteers of the American Cancer Society for fresh cut daffodils. The flowers come in bunches of 10 and sell for \$5. Vases are also available for an additional \$2. Orders of 10 or more bunches will be delivered. Larger business bouquets will be sold and delivered for \$35.

The flowers, which can be purchased by calling 377-5472 or (800) 344-4578, will be available the week of March 25. The fresh-cut flowers will last from 7 to 10 days.

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Military News

Bluejacket candidates talk of military experiences

Editors Note: This is the second in a three-part series featuring the China Lake military members competing for the Navy League's Bluejacket of the Year honors. The Indian Wells Valley Council of the Navy League will announce the winner at the annual Bluejacket Banquet, set for the Seafarer Club at 6:30 p.m., March 9.

According to Greek mythology, long ago young sailors were lured to their destruction by the sweet tempting songs of the sirens. Not unlike the ancient sailors, Aviation Machinist Mate Second Class Raymond K. Finger, just can't seem to get enough of the sweet sounds of thundering \$40 million dollar pieces of steel that must pass his final inspection before heading off on their vital missions. It's become a way of life for the young sailor who has spent the last eight and a half years inspecting and troubleshooting tactical aircraft ready to launch off carrier flight decks and shore based airfields. This 1990 Bluejacket of the Year nominee finds the Navy full of adventure and excitement!

Born in Cherry Hill, N.J., and raised in Greensboro, Md., the Petty Officer enlisted in the U.S. Navy in August of 1982. Jumping from east to west coast, he attended recruit training in San

Diego, Calif., followed by Aviation Machinists Mate "A" school at NAS Miramar, Calif. He stayed in Miramar for two years of shore duty and then headed to sea with VA-22, stationed out of Lemoore, Calif.

"Launching aircraft off of a Naval carrier is an incredible experience. Your adrenaline gets pumped. You stand on the flight deck where planes move toward you for final inspections, then you watch the jets blast off the deck!" remarked Finger. "On shore it's still a rush, but the aircraft is parked and checked while you make the checks which brings the risk factors down a little. Overall, I prefer the work at sea!"

Understandably so, sailors at sea contend with four different catapults that launch at least two aircraft off of an aircraft carrier at the same time. "One plane will go off the waist, another off the

bowel, and there's another two rearing and ready to go! At sea you really have to watch what's going on," stated Finger.

His squadron deployed aboard the *USS Enterprise* for what was originally intended to be a six month cruise. Due to the bombing in Lybia it turned into an "Around the World Cruise." "We were the first nuclear aircraft carrier to go through the Suez Canal at that time."

Finger got a taste of actual combat in 1988. Still attached to VA-22, aboard the *USS Enterprise*, the squadron went out on a Western Pacific Deployment (WESTPAC). Their initial mission was to reach the Indian Ocean to relieve the carrier already patrolling the open sea lanes. Upon arrival they found themselves in the middle of "Operation Preying Mantis," the brief conflict with Iran, following the mining of the Persian Gulf by Iran.

(Continued on Page 4)



AD2 Raymond K. Finger

Meet a woman with incredible drive and ambition. Just say the word "challenge" and she's literally off and running to meet

and master it. Just mention the magical phrase "it can't be done" and she'll inevitably prove you wrong. And when everyone else



RM1 Ruth L. Bowsby

around her says "you must be crazy," determination kicks in and she simply stands her ground. Married to another servicemember and a mother of three, 1990 Bluejacket of the Year nominee RM1(AW) Ruth L. Bowsby takes it all in stride.

Bowsby, who is attached to the Naval Weapons Center while attending college full time through the Navy's Enlisted Education Advancement Program (EEAP), certainly took the long and winding road during the past ten and a half years in the Navy to end up where she is today. But if you ask her, she'll tell you every step was worth it!

She began her military life in August of 1980, when she attended recruit training (alias bootcamp) in Orlando, Fla. To this day the culture shock of it all is an acute memory. "I remember seeing all these people marching and I asked someone, 'why are they all walking so funny?' I had no idea what to expect and felt like I was in a different world," laughed Bowsby. Adjustment to the new world fell right into place and she start-

ed her career with a bang by becoming her company's recruit chief petty officer, in other words, she became their leader.

And so the drive to thrive on challenges began!

Upon graduation from basic training Petty Officer Bowsby was meritoriously promoted to the next higher pay grade and transferred to Norfolk, Va., where she attended Oceansystems Technician Class "A" school. It was then straight to Advanced Oceanographic Subsystems School in Ferndale, Calif., where she graduated fourth in her class.

As an oceanographer, she studied oceanographic research for anti-submarine warfare. "It was a very satisfying and interesting job, especially knowing the work we reported went straight to the President of the United States every morning for briefings," commented Bowsby, "but, the rate was highly classified and I wanted to work with and around people." So she did the unthinkable and requested to drop her "OT" designator and become undesignated, which

meant she no longer had a job classification. "People thought I was crazy to take what they considered a down grade, but I knew it was necessary for me to ultimately find a position I really wanted to be in," said the radioman.

Well, determination kicked in!

She worked in a medical clinic for a year hoping to take the Hospital Corpsman (HM) exam, but was told she couldn't because she had previously attended a different "A" school. So she changed her direction toward the administrative field and planned to take the Yeoman (YN) exam, but, alas, the rate closed to women. Her next attempt was to get into the Mess Management Specialist rating, but diagnosed back problems during her first pregnancy kept her from being able to stand for 13 hours a day.

Many of us by that point would have thrown in the towel, but she didn't. She again approached the Navy striker board who said "you can be a Radioman (RM) or an RM." To (Continued on Page 8)

Openings are available at Naval Weapons Center

(Continued from Page 15)

Knowledge of weapon systems acquisition processes; knowledge of contract administration and technical status monitoring; ability to gather, compile, and analyze various project data related to acquisition; ability to communicate, both orally and in writing, with technical and management personnel, on and off Center. Current Secret clearance is required. Macintosh computer experience is desired but not required. Promotion potential to DP-3, but not guaranteed. The person selected for this position will be subject to urinalysis testing for use of illicit drugs. See "NOTICE REGARDING DRUG TESTING DESIGNATED POSITIONS" in "Promotional Opportunities" box above.

No. 39-002, Physical Science Technician, DT-1311-1/2, Code 3941 - This position is located in the Sensors and Platforms Branch, Electro-Optics Guidance Division, Intercept Weapons Department. The Branch is responsible for the analysis, design, fabrication and test of EO/IR missile seekers and related technology. The work will include laboratory setup and measurement of electronic and optical devices, fabrication of mechanical and electronic hardware, and management of branch plant account assets. **Job Relevant Criteria:** Knowledge of electrical schematics; Ability to use electronic test equipment; Ability to work effectively with technical personnel; Ability to learn new skills. Promotion potential to DT-3, but not guaranteed.

No. 61-006, Supervisory Airplane Pilot, DP-2181-3, Code 611A - This

vacancy is the Associate Division Head, Airfield Operations Division, Aircraft Department. The division is responsible for operating Armitage Airfield facilities, air traffic control, planning and coordination of aerial target operations, fleet liaison, maintenance of ground electronics navigation and communications equipment, NATOPS program, and scheduling/dispatching of aircraft. **Job Relevant Criteria:** Skill in piloting heavy multi-engine aircraft; knowledge of instrument flight rules; skill at night flying; knowledge and willingness to support NWC EEO program goals and objectives; ability to interface effectively with both on and off-Center upper level management; ability to supervise a large group of personnel through subordinate supervisors. Promotion potential to DP-4, but not guaranteed. First time supervisors are required to serve a one year probationary period. A Supplemental Qualifications Statement (OPM for 1170/21) must be submitted with SF-171. It can be obtained in Room 100 of the Civilian Personnel Department. **Any applicant tentatively selected for this position will be required to submit to urinalysis for illegal use of drugs prior to a final selection.

The 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). **This ad closes on 28 February 91.**

No. 62-011, Multidisciplinary (Aerospace Engineering/Engineering/Electronics Technician), DT/DP-802/856-3, Code 62C1 - This position is that of Test Manager in the Test Management Office, Range Department. The incumbent serves as a focal point for program offices and other sponsors for test

work on the NWC ranges. Responsibilities include: test planning; fiscal management; test coordination; test analysis and documentation for Air-to-Air, Air-to-Ground, Ground-to-Air, and other possible test and evaluation programs; coordinates the effort of the professional and technical teams; maintains contacts with sponsors, technical and administrative personnel, center managers, contractors, and national associates. Applicants must be able to manage assigned funding. Some travel is required. **Job Relevant Criteria:** Knowledge of T & E weapons systems; ability to plan, coordinate, and manage a technical program; ability to deal with all levels of technical management; knowledge of NWC test range instrumentation; ability to communicate orally; ability to communicate in writing. **Promotion potential to DP-3, but not guaranteed.**

No. 64-015, Engineering Technician, DT/DP-802-3, Code 6415 - Serves as the Head, Basic Design Engineering Section of the Fleet Support Branch, Aerosystems

Department. The section provides engineering support for in-service Navy parachute systems along with engineering and drafting support for the entire Recovery Systems Division. The incumbent is responsible for: all administrative and financial management of the section; providing engineering analysis and response to Fleet problems; drawing control; liaison with the Fleet, other Navy labs, and NAVAIR; marketing; and management of special projects. **First time supervisors are required to serve a one year probationary period. **Job Relevant Criteria:** Knowledge of configuration management; knowledge of Fleet change processes, i.e., RAMECS, RAC's, ACC's, ECP's, etc.; ability to perform as a first-line supervisor; ability to influence and motivate others; ability to plan, organize, coordinate, and manage a technical program; knowledge of affirmative action principles including a willingness to implement EEO practices. Promotion potential to DP-3, but not guaranteed. **This Ad closes on 8 March 91.**

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The installation of the CTS will mean added capabilities and enhanced user productivity for NWC employees. Code 2712 would like to introduce to you some of the features that will be available with the new system. If your telephone is currently connected to a digital switch (such as at the Airfield), you will be familiar with some of these features, if not, the features will be new to you. These features can be used from a standard single-line telephone (which is recommended in most cases) or from a multi-line telephone. All of the described features will be part of the initial installation of the CTS.

CALL FORWARD - this feature allows you to transfer calls made to your number to another number if you are not going to be there or if your line is busy.

CALL WAITING - this feature notifies you when another caller is trying to reach you. You have the option of answering the second call while putting the first caller on hold, or you can ignore the second call and continue your present conversation. One thing you have to remember with call waiting, if you choose not to answer the second call, the calling party will receive the ringing and think you are not there to answer your telephone.

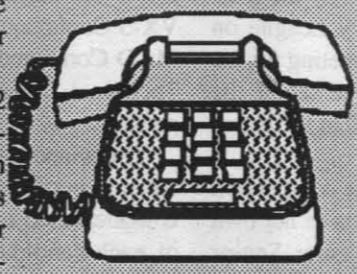
THREE-WAY CALLING - this feature allows you to carry on a conversation with two parties at the same time.

LAST NUMBER REDIAL - this feature will automatically redial the last number you dialed.

RING AGAIN - this feature allows you to queue a called number to ring back to you when it is no longer busy.

SPEED CALL LIST (SHORT) - this feature will allow you to store frequently called numbers and be able to access them with a one- or two-digit code.

In the coming weeks, Code 2712 will be providing schedules for outside and inside cable installation in the various population centers. This Spring we will be contacting your Code's representative about telephone installation in your offices.



Supervisor safety training offered

All supervisors are mandated by the Navy Occupational Safety and Health Program to have annual safety and health training (OPNAVINST 5100.23B). Annual refresher training has traditionally been provided by the Safety Program Office (Code 2405) monthly.

To facilitate more effective training in the future, and to alleviate any frustrations experienced by supervisors in the past as they tried to meet their annual requirement, Supervisor's Safety Training will now be presented as part of Safety Standdown.

This year's Safety Standdown will be held May 6-7. Ten to 12 one-hour sessions of Supervisors' Safety Training will be presented in the period. All supervisors should attend one of the sessions to meet training requirements. Supervisors who do not attend a session during Safety Standdown will have to meet the requirement by attending one four-hour "New Supervisors' Safety Courses" presented quarterly by Code 2405. (Note: the Supervisors' Safety Class during Safety Standdown serves as annual refresher training. New supervisors must attend the four-hour class presented by Code 2405. Attendance at this course should be within 120 days of appointment to supervisory status. To register for New Supervisors' Safety Class, call the Safety Program Office at NWC ext. 2315 or 2367.) By the Safety Program Office

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Volunteers: Retirees help staff NWC office

Volunteer efforts of a dozen retired China Lakers were recognized last week by Capt. Douglas W. Cook, Naval Weapons Center Commander. The former employees, all of whom volunteer time to staff the NWC Retired Affairs Office, were presented certificates of appreciation by Capt. Cook and Bill Davis, retiree affairs officer.

The Center Commander noted these were veteran employees who played a vital part in making NWC what it is today and he greatly appreciated their ongoing work in the role of retirees. Davis noted the role of the office has grown with the help of the volunteer workers and now includes such functions as maintaining a data base of military and civilian retirees from NWC; working with NWC Employee Relations Office, veterans groups and other organizations, publishing a directory of NOTS/NWC retirees and alumni, planning a military retirees seminar each year and sponsoring an annual civilian retirees appreciation day at NWC.

Volunteers honored by Capt. Cook were: Joe Adler, Rose Gonzales, Gordon Chantler, Signe Gallaher, Vera Barra, Jean Rollingson, Ev Long, Gerry Pracchia, Virginia Pearia, Shirley Sima, Ellen Baker and Frank Sima.



OFFICE VOLUNTEERS- The help of retired China Lakers is vital for the Retiree Affairs Office. Capt. Cook, NWC Commander and Bill Davis, Retiree Affairs Officer, presented certificates of appreciation to (from left): Frank Sima, Shirley Sima, Rose Gonzales, Signe Gallaher, Virginia Pearia, Vera Barra, Joe Adler, Jean Rollingson, Ev Long and Bill Davis. Missing from the photo are: Gerry Pracchia, Ellen Baker and Gordon Chantler. They were saluted for volunteering to staff the Retiree Affairs Office

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No. 61-009, Electronics Engineer, DP-855-2/3, Code 6131 - This position is located in the Tracking and Control Branch, Engineering Support Division, Aircraft Department. The incumbent serves as Target Control Systems Engineer. Incumbent is responsible for in-service engineering support of Navy target control systems. Duties include: analyzing reported system problems; synthesizing and implementing solutions; developing specifications for new equipment; generating procurement actions; technical monitoring of contracts; and some design work. Incumbent works closely with other branch members, Target Control Systems program office, Full-Scale Aerial Target Development program, and contractors. Applicants must have substantial

(Continued on Page 17)

Fellow committee seeks nominees for recognition

Nominations are now being accepted by the NWC Fellow Selection Committee for the 1991 Fellow Program. All **technical** NWC employees are eligible for the Fellow designation, whether engineer, scientist, mathematician or other technologist engaged in research, development, test and evaluation; production process development; quality control; or other technically sophisticated activities.

A major factor in the success of NWC is the innovative talent of our technical people, noted Bill Porter, NWC's Technical Director. The Fellow Program provides formal peer recognition for those individuals who make **continued and outstanding contributions** to the technical success of the Naval Weapons Center.

Anyone may nominate a candidate for the Fellow Program by submitting the necessary documentation, which should include nominee's name, educational background, accomplishments, patents, publi-

cations and technical input (NWC /national/international). Nominations should be submitted to the nominee's department technical staff selection committee. If no department technical staff selection committee exists, nominations should be submitted directly to the Fellow Selection Committee via the nominee's department head.

The following people are chairpersons of their department technical staff selection committees and members of the Fellow Selection Committee. As such, they may receive nominations and are available to answer questions about the Fellow Program -- Lee Lucas, Code 31C, NWC ext. 5219; Bill Burdette, Code 3276, NWC ext. 7263/7273; Marc Moulton, Code 3574, NWC ext. 3611/3612; Hency Blazek, Code 36471, NWC ext. 1370/1036; Jean Bennett, Code 38103, NWC ext. 1426/1401; Fay Hoban, Code 39B5, NWC ext. 2527/2567; and Jim Rieger, Code 64203,

NWC ext. 2631/3761.

Nominations may also be sent to the Employee Management Relations Division, Code 221, which will forward them to the appropriate committee. Nominations may be submitted anonymously, but it would be helpful to the committees if the person making the nomination would provide his/her name and phone extension in case further information is required about the nominee.

In order to complete the selection process, **all nominations must be submitted no later than March 15.**

The Fellow Program provides for three steps of recognition -- in ascending order, NWC Fellow, NWC Senior Fellow and NWC Distinguished Fellow.

An NWC Fellow shall be recognized as a leading NWC expert in his/her field and shall have made identifiable technical contributions critical to NWC programs. Patent and/or publication activity and

recognition of capability by the technical community outside of NWC will be typical.

An NWC Senior Fellow shall have clearly extended the state of the art in his/her field and made sustained, wide ranging and crucial contributions to NWC programs. Patent and/or publication activity and recognition by the technical community outside of NWC will be expected.

An NWC Distinguished Fellow shall have made pioneering developments in one or more technical fields of direct benefit to NWC. He/she will be a nationally/internationally recognized expert. Significant patent/publication activity is expected.

The Fellow Selection Committee encourages participation in the Fellow Program from any NWC employee. If you have any questions regarding the Fellow Program, please call George Banura, Fellow spokesperson, at NWC ext. 1987.

Bluejacket of the Year banquet planned March 9

Six outstanding examples of military members who lead by excellence will be saluted by the Indian Wells Valley Council of the Navy League on March 9. The sailors honored are competing for the coveted title of Navy League Bluejacket of the Year. The annual banquet is being held at the Naval Weapons Center's Seafarer Club.

In order to become a nominee in the competition each of the six was first honored by his or her own organization. The Naval Weapons Center Senior Sailors of the Quarter for 1990 and the Air Test and Evaluation Squadron Five (VX-5) Supervisors of the Quarter for 1990 take part. Because of transfers only six of the eight persons eligible will be able to compete, three from NWC and three from VX-5.

Bud Biery will act as master of ceremonies for the event set in NWC's Seafarer Club starting with

a social hour at 6 p.m. Capt. Douglas W. Cook, NWC Commander; Capt. Raymond A. Kellett Jr., VX-5 Commanding Officer; Col. Jerry Agenbroad, MAD Commanding Officer and Bill Porter, NWC Technical Director; are scheduled to be special guests.

The winner is selected by a committee of senior enlisted personnel from each command. Selection is made based on service record and board review of each candidate. In addition to the recognition and a plaque, the winner will receive cash awards and other gifts donated by Indian Wells Valley businesses and individuals.

Admission to the banquet and award presentation is \$15 per person. To make reservations call Linda Smith at 375-7859 or send a check care of DCS, 119 S. Gold Canyon, Ridgecrest, Calif.

Groups set one-day intensive technical seminar at China Lake

(Continued from Page 1)

- ASPA -- Business and Personal Communications. By Pat McDonald, Jeff Babaib, Program Director CASI, Contel.
- SIGADA -- Mega-Programming -- Use of Reprogrammable Segments. By Brad Clark, Code 3922, NWC.
- ASQC -- Impact of I.S.O. 9000-Quality Assurance in the European Common Market. By Tony Miller, Quality Assurance, Comarco.
- SOLE -- Shared Data Base Tech-

nology -- A Concurrent Design Solution. By Ron Pretlac, Mentor Graphics.

•EKCLSA -- Patent Rights and Legal Issues. By Melvin Sliwka, Code 006P, NWC, Deputy Counsel, Patents.

Reservations are mandatory and must be made by Tuesday, March 5. Reservations may be made by calling Tree Crabtree at NWC ext. 3411, ext. 382; Al Barbee, 446-7671; Bill Wilson, NWC ext. 3441; or by contacting your sponsoring organization.

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Qualified employees sought to fill positions at NWC

(Continued from Page 14)

Previous applicants need not reapply. The person selected for this position will be subject to urinalysis testing for use of illicit drugs. See "NOTICE REGARDING DRUG TESTING DESIGNATED POSITIONS" in "Promotional Opportunities" box above.

No. 27-013, Supervisory Electronics Technician, DP-856-3/4, Code 271 - This position is that of Head, Communications Division, Code 271. The Communications Division is primarily responsible for the life cycle management (LCM) of the Center-wide Integrated Communications System (ICS). This LCM responsibility includes the planning, analysis, definition and coordination necessary to specify, procure, design, integrate and operate communication systems and their associated voice, data and image/video networks. The Division also assists in liaison, coordination, and planning with internal NWC organizations and external organizations [e.g., SPAWAR, NAVCOMTELCOM, DASN (IRM)] to support Navy communication programs. The prime function of this position will be to manage and coordinate activities to provide: network QA/CM and security; corporate network facilities; analysis, design, implementation, documentation, and maintenance of voice, video, and data networks; project planning and contracting for corporate communications equipment and services including the Center Telecommunications System and Video Conferencing; and administration of communication systems contracts. Travel involved. **Job Relevant Criteria:** Knowledge of affirmative action principles, including a willingness to implement EEO practices; knowledge of Navy acquisition/contractual policies and procedures; ability to plan, organize, coordinate, and manage multiple technical projects; knowledge of communication systems including hardware and software; knowledge of existing communication standards and developing standards such as SONET, ISDN, FDDI; knowledge of gateways, LANs, bridges, digital switches, and fiber

optics; ability to effectively deal with contractors and vendors; ability to communicate well, both orally and in writing. The incumbent must be able to obtain and maintain a Secret clearance. Must serve one year supervisory probationary period if not previously completed. Promotion potential to DP-4, but not guaranteed. Previous applicants need not reapply. The person selected for this position will be subject to urinalysis testing for use of illicit drugs. See "NOTICE REGARDING DRUG TESTING DESIGNATED POSITIONS" in "Promotional Opportunities" box above.

No. 28-041, Budget Clerk/Assistant, DG-561-1/2, Code 2837 - This position is located in the Corporate Budget Branch. The incumbent assists in the coordination of the centralized job order input/output and fund document acceptance processes for the Center. **Job Relevant Criteria:** Knowledge of accounting or budget procedures; skill in operating computer terminals. Ability to deal effectively with customers. Promotion potential to DG-2.

No. 39-001, Program Analyst, DA/DP-345-3, Code 39B1 - This position is located in the Advanced Technology Applications Office, Antiair Projects

Office, Intercept Weapons Department. Incumbent will function as Contracting Officer's Technical Representative for multiple program contract efforts. Incumbent will prepare relevant program documentation, such as program plans, acquisition plans, statements of work, source selection plans, status reports; will

perform scheduling and planning, monitor critical path areas, major decision points and milestones; and will be responsible for analysis, coordination and resolution of technical data package and programmatic issues. Some travel will be required. **Job Relevant Criteria:** (Continued on Page 16)

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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 Blandly. 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. 27-001, Interdisciplinary (Electrical Engineer/Computer Scientist/General Engineer/Mathematician), DP-855/1550/801/1520-2/3, Code 2711 - This position as a Senior Network Engineer/Scientist/Technician is located in the Network Services Branch. The prime function of this position will be to analyze user requirements, plan, design, specify, and integrate networks with emphasis on networking with the Fiber Optics Trunk system as part of the Centerwide Integrated Communications System Program. The incumbent will also analyze technology trends for data network systems as they relate to existing and planned corporate NWC networks. The incumbent will also interface computer to computer networks such as DECnet with fiber optics; networks using protocol standards such as IEEE 802; networks with communication topologies such as Bus, Star, and Ring. Training will be provided for specialized network system design skills. **Job Relevant Criteria:** Knowledge of data communications equipment including LANs, bridges, digital switches, and fiber optics; knowledge of communication standards;

knowledge of video engineering standards and practices; knowledge of video trunking applications; ability to communicate both orally and in writing; ability to perform cost analysis and evaluate tradeoff studies. Promotion potential to DP-3, but not guaranteed. **No. 27-002, Communications Specialist, DS-393-2/3, Code 2711** - This position as a Senior Network Engineer/Scientist/Technician is located in the Network Services Branch. The prime function of this position will be to analyze user requirements, plan, design, specify, and integrate networks with emphasis on networking with the Fiber Optics Trunk system as part of the Centerwide Integrated Communications System Program. The incumbent will also analyze technology trends for data network systems as they relate to existing and planned corporate NWC networks. The incumbent will also interface computer to computer networks such as DECnet with fiber optics; networks using protocol standards such as IEEE 802; networks with communication topologies such as Bus, Star, and Ring. Training will be provided for specialized

network system design skills. **Job Relevant Criteria:** Knowledge of data communications equipment including LANs, bridges, digital switches, and fiber optics; knowledge of video engineering standards and practices; knowledge of video trunking applications; ability to communicate both orally and in writing; ability to perform cost analysis and evaluate tradeoff studies. Promotion potential to DP-3, but not guaranteed. **No. 27-003, Computer Specialist, DS-334-2/3, Code 2711** - This position as a Senior Network Engineer/Scientist/Technician is located in the Network Services Branch. The prime function of this position will be to analyze user requirements, plan, design, specify, and integrate networks with emphasis on networking with the Fiber Optics Trunk system as part of the Centerwide Integrated Communications System Program. The incumbent will also analyze technology trends for data network systems as they relate to existing and planned corporate NWC networks. The incumbent will also interface computer to computer networks

such as DECnet with fiber optics; networks using protocol standards such as IEEE 802; networks with communication topologies such as Bus, Star, and Ring. Training will be provided for specialized network system design skills. **Job Relevant Criteria:** Knowledge of data communications equipment including LANs, bridges, digital switches, and fiber optics; knowledge of communication standards; knowledge of video engineering standards and practices; knowledge of video trunking applications; ability to communicate both orally and in writing; ability to perform cost analysis and evaluate tradeoff studies. Promotion potential to DP-3, but not guaranteed.

No. 27-004, Electronics Technician, DT-856-2/3, Code 2711 - This position as a Senior Network Engineer/Scientist/Technician is located in the Network Services Branch. The prime function of this position will be to analyze user requirements, plan, design, specify, and integrate networks with emphasis on networking with the Fiber Optics Trunk system as part of the Centerwide Integrated Communications System Program. The incumbent will also analyze technology trends for data network systems as they relate to existing and planned corporate NWC networks. The incumbent will also interface computer to computer networks such as DECnet with fiber optics; networks using protocol standards such as IEEE 802; networks with communication topologies such as Bus, Star, and Ring. Training will be provided for specialized network system design skills. **Job Relevant Criteria:** Knowledge of data communications equipment including LANs, bridges, digital switches, and fiber optics; knowledge of communication standards; knowledge of video engineering standards and practices; knowledge of video trunking applications; ability to communicate both orally and in writing; ability to perform cost analysis and evaluate tradeoff studies. Promotion potential to DP-3, but not guaranteed.

No. 27-011, Supervisory Interdisciplinary (Electronics Engineer, Electrical Engineer, Computer Scientist, mathematician), DP-855/850/1550/1520-3/4, Code 271 - This position is that of Head, Communications Division, Code 271. The Communications Division is primarily responsible for the life cycle management (LCM) of the Center-wide Integrated Communications System (ICS). This LCM responsibility includes the planning, analysis, definition and coordination necessary to specify, procure, design, integrate and operate communication systems and their associated voice, data and image/video networks. The Division also assists in liaison, coordination, and planning with internal and external NWC organizations in support of joint Navy Laboratory communication programs, and is responsible for the liaison, coordination, and planning with internal NWC organizations and external organizations [e.g., SPAWAR, NAVCOMTELCOM, DASN (IRM)] to support Navy communication programs. The prime function of this position will be to manage and coordinate activities to provide: network QA/CM and security; corporate network facilities; analysis, design, implementation, documentation, and maintenance of voice, video, and data networks; project planning and contracting for corporate communications equipment and services including the Center Telecommunications System and Video Teleconferencing; and administration of communication systems contracts. Travel involved. **Job Relevant Criteria:** Knowledge of affirmative action principles, including a willingness to implement EEO practices; knowledge of Navy acquisition/contractual policies and procedures; ability to plan, organize, coordinate, and manage multiple technical projects; knowledge of communication systems including hardware and software; knowledge of existing communication standards and developing standards such as SONET, ISDN, FDDI; knowledge of gateways, LANs, bridges, digital switches, and fiber optics; ability to effectively deal with contractors and vendors; ability to communicate well, both orally and in writing. The incumbent must be able to obtain and maintain a Secret clearance. Must serve one year supervisory probationary period if not previously completed. Promotion potential to DP-4, but not guaranteed. (Continued on Page 15)

Travel involved. **Job Relevant Criteria:** Knowledge of affirmative action principles, including a willingness to implement EEO practices; knowledge of Navy acquisition/contractual policies and procedures; ability to plan, organize, coordinate, and manage multiple technical projects; knowledge of communication systems including hardware and software; knowledge of existing communication standards and developing standards such as SONET, ISDN, FDDI; knowledge of gateways, LANs, bridges, digital switches, and fiber optics; ability to effectively deal with contractors and vendors; ability to communicate well, both orally and in writing. The incumbent must be able to obtain and maintain a Secret clearance. Must serve one year supervisory probationary period if not previously completed. Promotion potential to DP-4, but not guaranteed. Previous applicants need not reapply. The person selected for this position will be subject to urinalysis testing for use of illicit drugs. See "NOTICE REGARDING DRUG TESTING DESIGNATED POSITIONS" in "Promotional Opportunities" box above.

No. 27-012, Supervisory Communications Specialist, Communications Management Specialist, Computer Specialist, DP-393/391/334-3/4, Code 271 - This position is that of Head, Communications Division, Code 271. The Communications Division is primarily responsible for the life cycle management (LCM) of the Center-wide Integrated Communications System (ICS). This LCM responsibility includes the planning, analysis, definition and coordination necessary to specify, procure, design, integrate and operate communication systems and their associated voice, data and image/video networks. The Division also assists in liaison, coordination, and planning with internal and external NWC organizations in support of joint Navy Laboratory communication programs, and is responsible for the liaison, coordination, and planning with internal NWC organizations and external organizations [e.g., SPAWAR, NAVCOMTELCOM, DASN (IRM)] to support Navy communication programs. The prime function of this position will be to manage and coordinate activities to provide: network QA/CM and security; corporate network facilities; analysis, design, implementation, documentation, and maintenance of voice, video, and data networks; project planning and contracting for corporate communications equipment and services including the Center Telecommunications System and Video Teleconferencing; and administration of communication systems contracts. Travel involved. **Job Relevant Criteria:** Knowledge of affirmative action principles, including a willingness to implement EEO practices; knowledge of Navy acquisition/contractual policies and procedures; ability to plan, organize, coordinate, and manage multiple technical projects; knowledge of communication systems including hardware and software; knowledge of existing communication standards and developing standards such as SONET, ISDN, FDDI; knowledge of gateways, LANs, bridges, digital switches, and fiber optics; ability to effectively deal with contractors and vendors; ability to communicate well, both orally and in writing. The incumbent must be able to obtain and maintain a Secret clearance. Must serve one year supervisory probationary period if not previously completed. Promotion potential to DP-4, but not guaranteed. (Continued on Page 15)

VX-5 Vampires

(Continued from Page 1)

Prowler aircrew significantly confused the electronic battle for our mock enemy. Strike tactics briefed by LCdr. Mike "Opie" Stahl were of particular note.

Outstanding air-to-air tactics by the F-15's and F-16's made getting to the target challenging during the day, but night strikes were a different story. Night Vision Goggle compatible F/A-18's, A-6's and AV-8's, as well as the search radar, terrain clearance (SRTC) equipped A-6's, owned the skies at night.

A superb maintenance effort enabled VX-5 to fly 176 sorties in eight flying days for a total of 314 tactical hours. This equates to a 90 percent sortie completion rate in an extremely high operational tempo environment. Vampire maintainers have a lot to be proud of! Significant individual performers were AD2 Finger, AT2 Dunning and AE3 Risi. Without these individuals, the sortie completion rate would have been much lower.

This detachment was a resounding operational success thanks to the coordination efforts of LCdr. "Chip" Miller and Lt. Eric "Slider" Hinson. A significant step was made in development of night strike and fighter tactics. by LCdr. Jim Seaman, VX-5



VAMPIRES DEPLOY-- Members of Air Test and Evaluation Squadron Five (VX-5) are getting ready to launch an F/A-18 Hornet strike/fighter at Naval Air Station Fallon, Nev. The entire China Lake-based squadron recently completed a rapid two-week deployment to NAS Fallon. This included more than 300 people and 14 aircraft. They worked on developing night strike and fighter tactics. Photo by PH3 R.C. Foster



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

The new SF171 Form really DOES exist! Please pardon the mistake two issues ago regarding the new SF171 forms that were reportedly a rumor. As it turns out, there is a new form and Dava Maples in Forms Management is working on creating it electronically in Filemaker now.

Charts without Excel
Always importing data into Excel just to get a bar or pie

chart? Cheshire is a init for the Mac from Abbott Systems to let you create charts in Macwrite, MS Word, Pagemaker, and MacDraw. Type and select the data, press Option-Command-C and choose the type of chart. Change your font and style in the dialog box, click OK and the chart is pasted into your document. The program has limits, but it is wonderful if you need a simple chart and don't want to bother with multiple applications. Try it out, it's in the library. Also, Adobe Illustrator 3.0 has a graph feature.

IIFX Serial Switch
The Mac Iifx doesn't have a

serial chip like earlier Macs, it has a communications processor. When a software package (like Versaterm) tries to access the serial chip, an error occurs. The serial switch solves this problem, put it in the system folder. It is available on the PC Lab Server in the Public Disc Volume.

SUN Users Group
The next meeting of the Sun User's Group will be held at the Hideaway on March 5 at 11 a.m. Speakers will be: Ron Backman on connectivity between Suns and Macintoshes; Kelly Bousack on networking, sub-networking and Domain Name Server; and

Tiana Gaugh on the Base-wide Unix Workstation Contract.

Norton Utilities Alert!
Symantec Corp is warning of some hard disk driver incompatibilities with it's first version of Speed Disk. You might see "Weak Sector" warnings when running Speed Disk on drives that use incompatible drivers. It may be possible to lose data. To avoid the problem, turn off the Verify Data option. The version now shipping is 1.0.1, it checks for driver compatibility and turns off the Verify Data option. They will send a free upgrade.
by Donna Hanson

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NWC's RM1 Bowlsby exhibits determination

(Continued from Page 3) which she replied, "Gee, I guess I'll be an RM!"

She took the exam for the RM rate after being assigned at the Communications Center, NAV-FAC Centerville Beach, Ferndale, Calif., for only two weeks and to her fellow shipmate's surprise scored higher than the other five competing for advancement. "It took me three years to become redesignated, but after that my career took off like fire works!" said the petty officer.

Bowlsby received spousal duty to Guam in 1984 where she was stationed at NTCC Nimitz

Hillwhich and NTCC NAS Agana. During this tour she earned the Junior Sailor of the Quarter title; received her first good conduct award; two meritorious unit commendation awards; two overseas service ribbons and numerous letters of appreciation and commendation.

The radioman was transferred to Naval Security Group Activity, Adak, Alaska in 1987 and was assigned as supervisor of the watch. She was elected Sailor of the Quarter for her division and department. She then attended Communications Systems Managers School in San Diego, Calif.,

graduating second in her class.

Upon her arrival at the Naval Weapons Center, Bowlsby was eager to take on more than her rate could offer. She volunteered to become division leading petty officer and assistant command career counselor for the Military Administration Division. During this time she developed a new sponsorship program and a new re-enlistment incentives package.

"I wanted the job so I could inform other military personnel what options they could pursue in the military. People give their rights away when they are uninformed," said Bowlsby. "I believe

so strongly in the Navy, what it stands for and everything it has to offer. If I could give advice to other servicemembers I would tell them to get informed, know your options and what's available. And if you don't know, ASK!"

Petty Officer Bowlsby was named NWC's Senior Bluejacket for third quarter 1990 as well as NWC's Sailor of the Year. She also earned the coveted Enlisted Aviation Warfare Specialist Wings. "This was a special achievement. It's tough to be a "blackshoe" (non-aviation community) and become a specialist in the aviation community."

She began participating in the EEAP program in January, attending Cero Coso College to earn her associate's degree. She intends to gain a commission through the Limited Duty Officer or Warrant Officer programs.

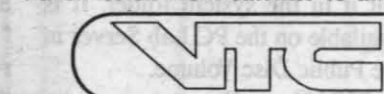
A strong advocate for women's rights in the Navy, she firmly believes it's no longer a man's Navy. "Women have come along hard, the Navy has worked real hard to make things equal and with the exception of a few closed rates and not being allowed in combat, we are equal in every other way," said Bowlsby.

VTC experiences rapid growth during its first year

Since it's ribbon cutting 13 months ago, the Video Teleconferencing Center (VTC) has added a few new features. The most celebrated is the departure of direct billing to the users. The reasoning behind this is to encourage use of the VTC. Usage is up to 25% compared to 12% last year at this time. Codes are using the conference center for program and document reviews, job interviews, product design reviews and showing video tapes of range events. Travel cost avoidance thus far has exceeded \$450,000. Add to this figure the productivity enhancement of being able to keep would-be travelers at home and still able to attend their meeting, and the VTC becomes a capability too good to pass up. The \$450,000 was derived from travel information provided by the users and the costs of round trip air

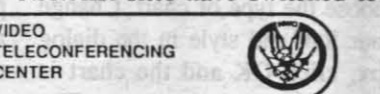
fare, rental car and per diem.

The Defense Commercial Telecommunications Network (DCTN) has just changed its transmission from satellite to all



fiber optic land lines. AT&T has named this transformation the Network Enhancement Program (NEP). What this means to the user is reduced audio static, no interference from weather or the

position of the sun, faster conference set up time, and greater access to other teleconferencing centers. Thus far, just the seven NAVAIR sites have switched to



NEP. In March, the Strategic Defense Initiative Organization and the Air Force Systems Command (SDIO and AFSC) will cut over to NEP. They will be followed by Air Force Logistics

Command in April, U.S. Forces Command in May, Headquarters Department of Army in June, and Army Material Command in July. That's over 75 DoD facilities and over 500 contractor sites on U.S. Sprint's Meeting Channel with whom NWC can teleconference.

Users are now able to participate in secure teleconferences with NAVAIR Headquarters, Naval Avionics Center (NAC), Pacific Missile Test Center (PMTTC), Naval Air Test Center

(NATC) and Naval Air Engineering Center (NAEC). In March, after the SDIO/AFSC join NEP, the Naval Weapons Center will be able to secure teleconference with their 19 conference centers.

The VTC is also the new home for the secure telefax formerly housed in the administration building. A second Secure Telephone Unit (STU III) is available in the VTC for users to talk classified without a teleconference.



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Sports

You're Invited to the NWC Gymnasium's Grand Reopening Celebration
 Join us at Noon on Tuesday, Feb. 26

Following the Ribbon Cutting Ceremony at Noon, guests will be invited to tour the newly remodeled facility. See the improved weight room, racquetball courts, locker rooms and the new entranceway and reception area. Refreshments will be served.

To allow staff from Morale, Welfare & Recreation Division time to prepare for this celebration, the NWC Gymnasium will be closed to public use from 8 a.m. to 3 p.m. on Feb. 26.

For information about Gym membership or any of the changes, call NWC ext. 2334.

Last day to register

IWV Youth Baseball Association prepares for season

This Saturday, Feb. 23, is the last scheduled date for registration and tryouts for the Indian Wells Valley Youth Baseball. Any youth who is league age 5-17 (by July 31) is eligible to register and, if needed, tryout at the Kern McGee Baseball Field. **No late registrations will be accepted.**

Registration will be from 9 a.m. to 3 p.m., while tryouts will be from 9 to 11 a.m. for Shetland and Pinto leagues and from 12 noon to 3 p.m. for Mustang, Bronco and Pony leagues. Returning Mustang, Bronco or Pony league players do not need to tryout unless changing teams within a league.

If there is a problem making tryouts, the parent or guardian of the prospective player should call George Sieg, player agent, at 446-5867 before Saturday.

Teams will be drafted the following week.

Deer tag application fee planned

The Department of Fish and Game has proposed a nonrefundable \$2 deer tag application fee to offset the costs of issuing more than 260,000 deer tags annually.

If adopted by the State Fish and Game Commission, the proposal would mean hunters applying for deer tags would pay \$2 for each tag requested.

Hunters and other interested members of the public may comment on the proposal in writing or at the Commission's March 1 meeting in Redding and the April 5 meeting in Sacramento. Final adoption of the proposal is scheduled for April 25 at a Commission meeting in Sacramento.

Send written comments to the California Fish and Game Commission, 1416 Ninth Street, Sacramento, CA 95814.

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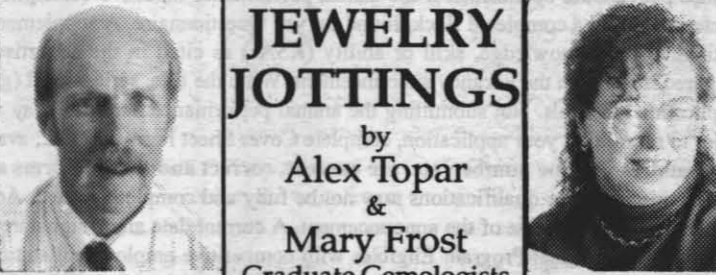
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Wellness Corner

Blood, lifestyles, and physical fitness are assessed in the Annual Spring Health and Fitness Assessments. For employees who are unfamiliar with procedures, there will be a limited number of briefings offered. The briefing sessions will outline the why and how of the wellness concept, assessments, and answer questions you may have.

The easiest way to make your appointment for a blood draw or fitness assessment is by computer. Simply go to any computer or terminal that will connect to the SCFC VAX. If you have access to another VAX on the network, log on and type "set host scfc". Once connected to SCFC, "user name" will appear on the screen. Type in "Wellness" and options will appear for scheduling, deleting, or looking up appointments for the blood draw and physical fitness assessments. If you do not have access to the SCFC VAX, call NWC ext. 2468 and leave a message giving your name, extension, code, and the date, place, and time you want your appointment.

Employees at EWTES need to call Bret Jacobson at NWC ext. 3571, ext. 315 to schedule appointments. Sandy Brown at NWC ext. 7418 will schedule all appointments for employees east of the CLPL gate.

BRIEFING SCHEDULE 1991

- Feb. 25, 1600, Training Center, Room 202
- Feb. 26, 1300, Public Works, Bldg. 981, Conference Room
- Feb. 27, 1300, Engineering Lab, Conference Room 2001B
- Feb. 28, 1600, Michelson Lab, Little "D" Conference Room
- March 4, 1600, Michelson Lab, Little "D" Conference Room
- March 7, 1300, Michelson Lab, Little "D" Conference Room
- BLOOD DRAW SCHEDULE 1991**
- Feb. 26, Thompson Lab, Conference Room 2
- Feb. 27, Range Control Complex, Range Headquarters, Bldg. 31457, Conference Room (Room 104)
- March 1, 6, 7, 8, 13, 14 & 15, Branch Medical Clinic
- Feb. 28, EWTES--call Bret Jacobson for appt., NWC ext. 3571, ext. 315
- March 5 & 6, Public Works, Bldg. 981, Conference Room
- March 7 & 12, CLPL, Bldg. 151, Room 10--contact Sandy Brown for appt., NWC ext 7417
- March 8 & 13, Engineering Lab,



Conference Room 2001AB
 March 14, 15, 19, 20 & 21, Michelson Lab, "Little D" Conference Room
PHYSICAL FITNESS ASSESSMENT
 March 11 & 12, Armitage Field, Para Systems Bldg., 20210
 March 13, Public Works, Aerobic Dance Room
 March 14, Thompson Lab, Bldg. 31433, Conference Room
 March 18, EWTES, Fire Station--call Bret Jacobson for appt., NWC ext. 3571, ext. 315
 March 19, CLPL, Bldg. 115--call Sandy Brown for appt., NWC ext. 7418
 March 20 & 21, Seafarer's Club
 March 25-29, Michelson Lab, B/C Conference Room

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MLSR procedures at China Lake

Law Enforcement Physical Security Division, Code 241, is the point of contact for missing, lost, stolen or recovered government property (M-L-S-R) at the Naval Weapons Center. Sgt. Dale Polley, is in charge of the Center's M-L-S-R Program, NWC ext. 2709.
 NAVWPNCENINST 5510.29, Chapter II, Section 10, states employees are responsible for reporting to their supervisors any missing, lost, stolen or recovered government property. Items must be reported to Code 241. CLP will do initial reports and offer the investigation to the Naval Investigative Service Command. If NISCOM accepts, CLP will end the investigation; if not, CLP will complete it.
 Verified missing, lost or stolen equipment will be surveyed and deleted from the equipment system. The owning code must initiate DD 200s, Report of Survey, and for forwarding it to Code 241. The DD Form 200 is attached to the police report. By Sgt. D. Polley

Knights of Columbus Fish and Chips Dinner

Knights of Columbus Hall
Friday's Feb 15th & 22nd

Adults \$5.00 - Children under 12 \$3.00

Serving starts at 5:30 P.M.

Ticket Information:

Contact Member or Call K of C Hall

375-8901

A message from the IWV HUMANE SOCIETY

While we were not included in this Fall's Combined Federal Campaign, we want to let you know that we are still an active group dedicated to helping animals in this Valley. We are very pleased with the success of our Pet Placement Service and our Spay/Neuter Voucher Program for the Animal Shelter's Pets of the Week. We are currently trying to expand our services to include a program to help elderly people adopt and care for their pets.

We still need your continuing support during the coming year, especially since we are not currently receiving CFC funding. However, if everything goes well, we should be included in this coming Fall's CFC campaign.

We are pleased to announce that we now have a new location where you can pick up literature and information on a variety of animal & pet-related topics. Casa K-9 Kennels has graciously given us space in their lobby for our literature (hours are Mon-Sat 7-12, 1-6:30, & Sun 4-6).

If you have any questions or problems that we can help you with, if you would like to become a volunteer or member, or if you wish to make a donation, please contact us!!

Thank you!!

IWV Humane Society
 P.O. Box 1414
 Ridgcrest, CA 93555
 375-9302



Research may lead to new laser material

(Continued from Page 1)
 based on their crystal could avoid those problems.

A Tm³⁺:YSAG crystal was recently grown to their specifications and is now being fabricated and prepared for use in a laser. Seltzer said he hopes they will be able to get the crystal to lase before they complete their independent research (IR) paper next month.

Once the grown crystal is fabricated and the laser working, Seltzer and Hills feel it should be easier to demonstrate potential applications and hope to have a working laser available for demonstration purposes.

Seltzer also noted their work is being nominated for consideration as outstanding independent research. The work done has, as Seltzer noted, been basic

research, funded in-house with IR money.

While submarine communication devices are not a part of NWC's mission charter, basic research into optical and electronic materials is. The identification of this potential new laser material is a direct result of that basic research.

The researchers have submitted two patent disclosures on

their material and submitted funding proposals to DARPA and the Office of Naval Technology.

In addition, they are seeking Small Business Innovative Research proposals as a means to fund continued work in this area.

NWC's employees have collaborated in this effort with John Gruber, a physics professor at San Jose State University who has visited NWC during the sum-

mer for several years as part of the ONT Summer Faculty Fellowship Program.

Marian Hills is a solid state inorganic chemist with her doctoral degree from Oregon State University. She has been at China Lake for 30 years. Mike Seltzer, a four year veteran of China Lake, has his doctoral degree as a laser spectroscopist from the University of Connecticut

ESB Shoemobile visits on Feb. 27

On Wednesday, Feb. 27, the Shoemobile, sponsored by the Employee Services Board, will be on-center from 7:30 to 9 a.m. in the parking lot of Building 01474 (Maintenance Utilities Division, Public Works compound). Civilians and military personnel may purchase safety shoes, gloves and related items from the ESB-sponsored unit.

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Black History includes Civil War

This is the second in a three-part series, reprinting a talk NWC's Ricky Parks gave on Black History and the role of Blacks in the Civil War.

"In the summer of 1863, Lincoln secretly told his cabinet about the Emancipation Proclamation. It would be announced at the next successful battle, to take effect in January 1863.

"However, before the proclamation took place, Congress passed the new Militia Act, permitting the President to use 'as many persons of African descent' as he needed for the suppression of the Rebellion.

"It also repealed a 1792 ordinance barring 'persons of color' from serving in the militia. Free Blacks and slaves would be recruited, but they were regarded as laborers and their pay was lower than White soldiers -- \$10 a month, less clothing expenses versus \$13 a month, plus clothing expenses for White soldiers.

When Fredrick Douglas personally confronted Lincoln about this discrepancy, he was told that the country had difficulty accepting Blacks as full soldiers. However, once this was accepted, matters of pay would be reconciled. The Army did not make amends on the pay issue until 1864 and then only partially. In 1863, after the draft riots, William Walker, a Black sergeant in the 3rd South Carolina Volunteers, ordered his men to stack arms because they 'would not do duty any longer for \$7 per month.'

"It was clear that he had no idea of the gravity of his act in wartime as he was tried for

mutiny and executed.

"In response, the South declared that captured slaves in Yankee uniforms, as well as White officers taken in battle would be executed. Hundreds of Northern soldiers deserted rather than serve with Blacks; two Illinois regiments had to be disbanded as a result. Nevertheless, recruiting of Blacks went on. Recruiters were authorized to offer \$100 to \$300 enlistment bounties. This was the period when Governor John Andrews created the celebrated 54th regiment, mostly composed of colored freemen, recruiting Col. Robert Gould Shaw as its commanding officer.

"Enlisted Blacks were stripped and bathed, his old clothes burned, his Army Blues put on. Many were treated well and trained well. But many were brutalized, even by Army Standards -- until some said 'I was better off as a slave.' Many got inferior equipment and medical care. They died of diseases in the field at nearly twice the rate of Whites.

"Of some 180,000 Black men to serve in the Army, only 2,800 died in combat; 34,000 died of diseases. (Black soldiers comprised 10 percent of the Union forces when Blacks accounted for only one percent of the Northern population.) Black soldiers drew excessive fatigue duty, back-breaking work behind the lines that took away from the training on which their lives depended on. One private from Louisiana wrote 'Instead of the musket, it is the spade and wheelbarrow, and the axe.' Stereotyping was common. When given a chance to fight,

Black troops excelled at quick, all out, headlong assault -- which was encouraged because the psychological effect it was supposed to have on Confederate fears of 'uncontrolled slave savagery.' As a result, a notion grew that Black soldiers were little use in tough, rearguard action but charged with a 'terrible fierceness.'

"The first real clash between Black troops officially recruited in the Union Army and Confederate soldiers did not take place until the war was almost over. In January 1863, the Battle of the Hundred Pines, the first South Carolina Infantry, commanded by Thomas Higginson, Boston abolitionist, engaged Confederate soldiers during their mission to free slaves and confiscate lumber at the head of the St. Mary's River on the border of Florida and Georgia. Higginson wrote in his memoir, *Army Life in a Black Regiment*, 'I find that I myself knew nothing... they were cool and wary as if wild turkeys were the only game and they fought with fiery energy only matched by French Zouaves... no officer in this regiment now doubts that the key to the successful prosecution of the war lies in the unlimited employment of Black troops.'

"White commanders, accustomed to having their authority resented, were pleased by the touching allegiance many Black enlistees showed them.

"On May 27, 1863, the 1st and 3rd Louisiana regiments, both Blacks, were ordered to make an almost impossible assault. (The 1st Regiment was the only regiment with Black officers, most notably Capt. Andre Callioux,

Paris educated land owner who called himself the 'blackest man in New Orleans.') Six times a thousand Black soldiers charged across an open field to be driven back by mortars, rifles, grapeshot and canisters. There were 212 casualties with 40 men killed, including Callioux.

"On June 7, 1863, at Milken Bend, 1,400 Union soldiers, the remains of two white companies and three black regiments took the brunt of a charge from 1,500 Texans. In combat, marked by horrible bloodshed, Union soldiers prevailed. After the battle, Capt. M.M. Miller wrote, 'I never more wish to hear the expression niggers won't fight. The bravery of the Blacks in the battle of Milken Bend revolutionized the sentiments of the Army.'

TO BE CONTINUED

Dry January reported here

Light winds, seasonal temperatures and below normal precipitation highlighted January's weather, noted a report from the Range Meteorology Office, Range Support Branch.

The month started with high pressure at the surface across the region and an upper level disturbance off the southwestern United States. By Jan. 3, tropical moisture was over the Indian Wells Valley, resulting in unsettled weather. Measurable rainfall was recorded on Jan. 3 and 4, with trace amounts on Jan. 5, 6 and 9.

Other periods of unsettled weather was from Jan. 19 through 22 and on Jan. 29 and 30 when weak cold fronts moved through the region on Jan. 19 and 29.

Day-long supercomputing forum March 5

Tuesday, March 5, will provide NWC scientists and engineers with an opportunity to assess the state of the art and future trends in supercomputing. A full day of meetings will be held, with morning session at the Center Theatre and the afternoon session at Room 1000D and the Management Center in Michelson Laboratory. Training credits will be given for each half-day of attendance. More information is available from Jack Van Wieren, NWC ext. 3597.

The morning session in the Center Theatre will begin at 8 a.m., with keynote speaker Dr. Jack Worlton. Dr. Worlton, while serving as Computer Facility director, was responsible for establishing Los Alamos National Laboratory as a pre-eminent supercomputing center. Today, he is much in demand as a speaker and consultant concerning technology trends in supercomputing. His talk, entitled, *The Once and Future Supercomputer*, will highlight the evolving capabilities and environments for supercomputing in science and engineering. Dr. Worlton will also address special sessions later in the day for department heads and program managers.

The morning will continue with a talk by Dr. Vijaya Shankar, director, Computational Sciences, at the Rockwell International Science Center. His many honors include the 1986 NASA Public Service Award for exceptional scientific achievement, the 1990 Cray Gigaflop Performance Award, and the 1991 AIAA Dryden Research Lectureship Award. His talk, *Supercomputing Trends*

for the 90's: Opportunities for Interdisciplinary Computations, outlines an integrated approach to the development of modern aerospace vehicles involving such technologies as fluid dynamics, structural analysis, propulsion, controls, and low observables.

The third speaker of the morning will be Doug Goodman of Cray Research, Inc., with a talk describing requirements for aerospace system simulations of the future. The final morning speaker will be Harold Dreibelbis, former chief, Data Systems Development Division, Western Space and Missile Test Organization, Vandenberg AFB, CA, and now of H.D. Consultants, Dreibelbis will talk on *Future Range Data Processing*. He draws upon extensive experience in design and analysis of real-time data processing systems for the acquisition, transmission, processing, distribution, and display of telemetry, radar, and communications data.

The afternoon meetings will highlight new computing technologies that enhance the effectiveness of supercomputing and glimpses into development projects at Cray Research, Inc.. The afternoon will begin with a Network Supercomputing Demonstration from 1 to 2:30 p.m. in the Michelson Laboratory Management Center presented by Dick Bland of Cray Research, Inc. The power of distributed computing utilizing workstations and supercomputers together will be shown in operation.

Ken Dozier, now director of research at Los Angeles State

University, will describe *An Applied Visualization Center* in Room 1000D at 2:45 p.m. Dozier was lead graphic engineer on the Hughes Aircraft FA-18 flight simulator and helped pioneer a number of graphics breakthroughs as vice-president for operations at Digital Productions and president of Interactive Machines, Inc. He also ran a consulting company which

provided graphic special effects for motion pictures and television.

The day will close with presentations in Room 1000D by Doug Goodman and Dennis Kelsch of Cray Research, Inc., on their Massively Parallel Project and Real-Time Initiative.

A parallel session for program managers is scheduled from 1 to 2:30 p.m. and will feature Dr.

Worlton, who will speak in Room 1000D, Michelson Laboratory, on the subject, *The Economics of Supercomputing*.

The Naval Weapons Center's own Cray X/MP-EA-116 supercomputer was installed in March, 1989, and provides the Center's scientists and engineers with easy access to the benefits of high speed computation, large memory availability, and fast input/output.

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