

Community Events

Fort Tejon Dragoons Living History Program -- Held July 7th at Fort Tejon State Historic Park, Lebec. 10 a.m. to 4 p.m. Adults \$2; children \$1. For more information call (805) 248-6692.

Oil paintings and monoprints by artist Chris Kidd of Davis, Calif., will be displayed in the Sylvia Winslow Exhibition Gallery of the Maturango Museum beginning July 13. The exhibit ends Aug. 7. Admission to the museum is \$1 for adults and 50 cents for children. There is no fee to members.

On July 13, the Maturango Museum will present a Saturday Adventure at 2 p.m. Lorna Garrod, former teacher and a true story teller, will entertain children with some of her wonderful stories. *I Love Tall Tales* is free with admission to the museum.

July's schedule for the Kern County Health Department's Pregnancy Screening clinics in Ridgecrest are set for 8 to 11 a.m. on July 9, 16 and 24 at 250 W. Ridgecrest Blvd. There is a \$2 charge for each pregnancy test. For more info, call 375-5157.

A **Downtown Street Faire**, will be held July 18th on Chester Avenue between 18th & 21st Streets, Bakersfield, from 6-9 p.m. Enjoy BBQ's, Farmers' Market, game booths strolling entertainment, bands, face painting, clowns, international foods, contests and much more. For more information call (805) 325-5892.

Genny Smith, author, editor and publisher will present a lecture in the City Council chambers on Wednesday, July 10. This Maturango Museum-sponsored event will begin at 7:30 p.m. Smith will talk about her book, *Doctor Neillie*, the autobiography of Helen MacKnight Doyle.

One of the few remaining 19th century Victorian homes in the Owens Valley, the Commander's House in Independence is now open for tours on weekends. Built in 1872, the home is furnished to reflect life in the valley in the late 19th century. Examples of early handicrafts such as quilting, furniture, toys and more can be seen in the home. Located on Highway 395 in Independence, the Commanders House is open for tours from noon to 4 p.m. Saturdays and Sunday's through Labor Day. For more information, call the Eastern California Museum at 878-2010 or 878-2411.

HOBIE CAT REGATTA -- Wofford Heights, July 20 -21. 1st day - 7 a.m. to 11 p.m.; 2nd day - 7 a.m. to 6 p.m. Hobie Cat races on Lake Isabella. Live band, dinner. For more information call (619) 376-3296.

Bob Osman will teach a 55 alive/mature driving class Thursday and Friday, Aug. 8 & 9, at the Knights of Columbus Hall, 725 W. Ridgecrest Blvd. The class originated by the American Association of Retired Persons (AARP), is scheduled for two 4-hour sessions each day from 10 a.m. to 3 p.m. with an hour off for lunch.

Although called "55 Alive" the class is for people 50 and over, the same as the age range for AARP membership. California law requires insurance companies to give a discount on premiums for three years for those completing the course. The amount of discount varies by company.

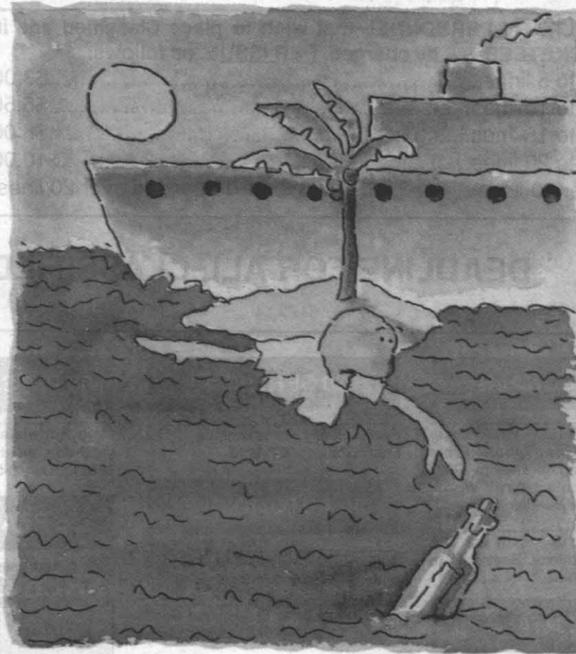
To enroll, send a check for \$8 per person, payable to AARP, to W.E. "Bill" Davis, 235 Apache Lane, Ridgecrest, Ca 93555. For more information call 375-2129.

On July 8-11 and 15-19, the Maturango Museum Summer Program will be held at the museum, 100 E. Las Flores Street. Children going into fourth and fifth grades are invited to join the activities. This year's emphasis is on how the local native Americans lives. Two field trips are planned, with one being an all-day trip.

Events will be held from 8:30 to 11:30 a.m., but times will vary on field trip days. The fee is \$20 for museum members and \$30 for non-members. Registration is now being taken at the museum from Tuesdays through Fridays from 10 a.m. to 5 p.m. until the class is full at 25 students. For more information, call the museum at 375-6900.

For Advertising Rates, Call Robert Winn at 375-4481

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July 3, 1991
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Weather Report

	Max	Min	Peak Gusts
Thurs.	83	65	32
Fri	81	58	22
Sat.	89	58	22
Sun.	99	56	12
Mon.	106	63	07

CV-6 air group members gather for big reunion

On July 24-28, a reunion of former Air Group members and crewmen of the Aircraft Carrier *USS Enterprise* (CV-6) will be held in Denver, Colorado. All men who served aboard the ship during her nine years of active service, 1938-1947, and their families are urged to attend.

USS Enterprise achieved the greatest war record in the history of the U.S. Navy -- the most decorated ship of World War II. The *Enterprise* participated in 20 of the 22 major sea battles in the south Pacific.

The reunion headquarters will be at the Denver Marriot Southeast Hotel, (I-25 and Hampden Ave.) Aurora, Colorado, 80014.

For more information, call Len Lesniak at 446-3016.

Navy drops board for JSO selection for this year only

Washington (NNS) -- There will be no selection board for Joint Speciality Officer (JSO) designation this year, due to the large number of JSOs screened in past boards and the extremely small number of candidates available. The board had been scheduled to convene this month.

The last JSO selection board, held in June 1990, selected 18 officers for the designation. The next board will convene in June 1992. For more information, contact BUPERS (PERS-2JJ), autovon 223-2345/2312 or autovon 224-3785/2048.

NWC Rocketeer

Naval Weapons Center, China Lake, California 93555-6001

Vol. XLVI, No. 25, July 3, 1991

Boa: Foundation for the next generation of Sidewinder

by Kristine L. Smith
Rocketeer Staff Writer

Can you improve on an air-to-air missile fighter pilots have referred to as their "best friend" since it was first released to the fleet in 1956? A multi-faceted program in the Naval Weapons Center's Sidewinder Project Office is supporting the joint Navy/Air Force Program Office in its investigations for improvements to Sidewinder.

Sidewinder has always been a weapon of evolution; continuous improvement is the key! The AIM-9L/M is referred to as THE short range, all-aspect firing, air-to-air missile

with a proven record; while the AIM-9R (fourth generation Sidewinder) is currently in full scale engineering development scheduled for fleet introduction. The continuous evolution process on Sidewinder is ongoing.

Since 1987, the BOA program has been investigating technology which supports future generations of Short Range Missiles (SRMs) beyond the AIM-9R. "Ultimately, we would like to develop an airframe that would be an alternative for the next generation missile to go into the fleet and replace the current Sidewinder airframe," stated John Shepherd, BOA Coordinator. "This is one of the biggest

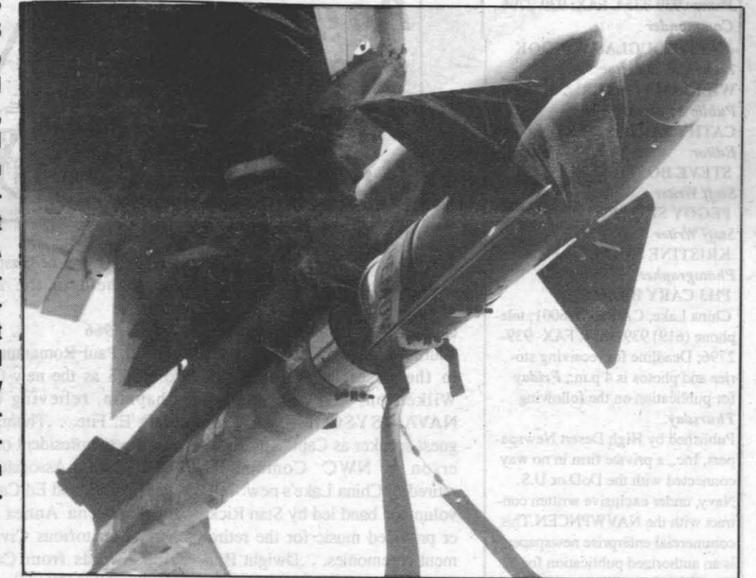
steps ever made in terms of increasing capabilities and changes."

The program as a whole is considered a MAJOR STEP in the air-to-air missile evolution.

BOA is broken into six ongoing efforts examining each and every component of the missile. The Air Weapons Concepts group, headed by Dennis McKinney, examines systems level type studies, i.e., defining problems and determining what should be done. The Advanced Aerodynamic Studies group, headed by Ed Jeter, delves into the actual flight (Continued on Page 15)

INTERCEPT WEAPONS DEPARTMENT INTRODUCES THE BOA-M MISSILE -- Prior to launch during testing performed at the Naval Weapons Center, the BOA-M PTV-1 (Programmed Test Vehicle-One) is installed on a China Lake A-7 Corsair II aircraft. Since 1987, the Intercept Weapons Department's BOA program team has been investigating technology which supports future generations of Short Range Missiles (SRMs) beyond the AIM-9R Sidewinder now undergoing developmental testing at the Naval Weapons Center. The program is considered a major step in the air-to-air missile evolution.

Photo by Don Cornelius
TID



Simulated disaster tests response

Mock earthquake helps train China Lakers to cope with real emergencies

Naval Weapons Center departments participated in a mock earthquake drill last Friday morning. The training exercise's purpose was to uncover problem areas and help find solutions to them before an actual disaster strikes.

Not unexpectedly, one of the main problems discovered during the exercise was communication. The simulated tremor knocked out phone lines, leaving command, safety personnel and employees at the mercy of handheld radios. Because of the number of people using the Center's Penmar Net, many messages couldn't get through.

According to the operations officer, Capt. Kenneth Allen, deputy commander for mili-

tary and support operations at NWC, the majority of personnel using radios were not trained in proper use and many messages had to be repeated, further tying up the frequencies.

Another area stressed at a critique following the exercise, was the need for key personnel to find out who is missing, not who is there. "We were getting long lists of people there, but had no way, short of going through the Herbie, of finding out who wasn't there," said Capt. Allen.

Many portions of the exercise went extremely well, noted Capt. Allen, including the chlorine contamination at the O'Club.

There, Girl Scout volunteers, organized by the Morale, Welfare & Recreation Department, simulated injuries, contamination and even fatalities. Members of the Branch Medical Clinic set up a triage unit, administered life-saving first aid, and sent the injured to the clinic or to the Ridgecrest Community Hospital.

The collapse of the Training Center was simulated this time, trapping people inside. Once again, emergency personnel responded, treating the injured and rescuing the trapped victims.

Also included in the exercise were ham (Continued on Page 5)

Commentary

NWC Rocketeer

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The Skipper Sez...

QUESTION

This is a safety question that I hope you can do something about. Heading North on China Lake Blvd., and making a right hand turn to enter the front gate is extremely dangerous, especially if you ride a motorcycle.

Here's the problem. There are two lanes making a right hand turn. Apparently, it is taken for granted that the outer most lane move to the far left lane entering NWC. I was nearly hit on two occasions because of this. I stayed in what I believed was my lane and was narrowly missed by a car in the inside lane moving over.

This is really a very dangerous corner. I believe that the problem can be alleviated by marking the two right hand turn lanes in solid yellow, indicating where we belong when rounding this corner to avoid any further confusion or accidents.

low, indicating where we belong when rounding this corner to avoid any further confusion or accidents.

ANSWER-

Your proposal has been discussed with the Traffic Safety Engineer, China Lake Police and the Safety Program Office. The existing marking is designed to have traffic move without changing lanes as you turn the corner. However, motorists sometimes jockey for position based upon which lane has the least traffic backup at the gate during high traffic hours. I am told the solid yellow lines you suggest are used only to separate traffic traveling in opposite directions and would be inappropriate in this situation.

It is felt that a solid white line will cause more confusion to motorists than the current markings because the number of available lanes at the gate changes based upon the amount of traffic flow. Traffic cones are placed to inform drivers of lane availability with approximately 200 feet of space available for the driver to adjust. There does not appear to be a marking which can be installed which will provide clear guidance to drivers 24 hours a day. It is still the drivers responsibility to be alert to traffic flow and road conditions in making safe lane decisions. Since there has been only one minor traffic accident in these lanes since the lights were installed, additional road markings are not recommended at this time.

Hopefully articles such as this will serve to remind drivers to be extra cautious and alert to other vehicles and motorcycles. I appreciate your taking the time to write and address what some consider a potentially dangerous situation.

Pages from the Past



July 3, 1986

Jack Russell, NWC's test and evaluation director finds the China Lake challenge retains its allure for him even after 30-years in the desert. . .VAdm. J.B. Wilkenson, Commander, NAVAIRSYSCOM, was the guest speaker at Capt. Ken Dickerson, NWC Commander retired. . .China Lake's new "all-volunteer" band led by Stan Ricker provided music for the retirement ceremonies. . .Dwight Holford, head of the PW Housing Division received special thanks from the Skipper for his work as division head.

July 2, 1981
Capt. Will Haff turned over command of NWC to Capt. John Jude Lehr. . .Capt. Haff received the Legion of Merit from RAdm. James Busey representing the Chief of Naval Material. . .Navy officials in Washington, D.C. announced plans to study many functions at NWC to see if they could be contracted out. . .Capt. Paul Hollandsworth, CO of VX-5 received the Commander Cup for the squadron's sports expertise. . .B.Z. Szczypiorski of the All Faith Chapel's Catholic Congregation, was pictured service

the Navy Chief of Chaplains at a picnic held in the admiral's honor.

July 1, 1966

Cdr. Paul Romantun reported to NOTS as the new Command Chaplain, relieving Chaplain Mark E. Fite. . .Thomas Creasy was elected president of the local Fleet Reserve Association unit. . .Joe Berkich and Ed Carpenter of the Pasadena Annex received Navy Meritorious Civilian Service Awards from Capt. John Hardy, COMNOTS, for their work on the Sealab Project. . .China Lakers were urged to celebrate and safe and sane Fourth of July.

July 5, 1951

A.H. Bissell of Public Works said construction is on schedule for 210 new housing units at NOTS. . .Housing officials announced the rent increases had been delayed until November 1. . .Marine Maj. J.C. Norris reported to NOTS as executive officers of the Guided Missile Training Unit. . .15 motorists were hauled into NOTS traffic court last week. . .J.L. Jones of the Underwater Ordnance Department was appointed to an ONR advisory group on batteries.

China Lake Calendar

Thursday, July 4

. . .Independence Day!

Friday, July 5

. . .Summerfest 1 at the NWC Seafarer Club from 9:30-Until ?

Saturday, July 8

. . .Second Session, Swimming Lessons at Community Pool.

Tuesday, July 9

. . .Budgeting for Baby class by NMCRS, NMCRS office, 1811 Lauritsen Road, 9-11 a.m.

. . .Well Animal Clinic, 10 a.m. Appointment required, call NWC ext. 3252.

Thursday, July 18

. . .Comedy Night, Seafarer Club, 8 p.m.

. . .MAD Car Wash, starting at 8 a.m., in the MAD parking lot.

Monday, July 22

. . .Undersecretary of the Navy Don Howard, presents Small Business Award to NWC, 11 a.m., Michelson Lab Room 1000D.

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 Thursday's publication.

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Ads up to 15 lines.....	\$8.00
Ads up to 20 lines.....	\$10.00
Ads over 20 lines.....	\$10.00 & \$1.00 per line over 20 lines.

CLASSIFICATIONS

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

DEADLINE FOR ALL CLASSIFIED LINE ADS IS 4:30 p.m. TUESDAY -

1 PERSONALS

CAR POOL WANTED - Would like to join or form car pool. From Lancaster/Palmdale area to NWC China Lake. Contact David Weiss, (805) 943-6382 evens/wkends.

30 SERVICES

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35 AUTOMOTIVE

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55 REAL ESTATE

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40 MISC. FOR SALE

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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.

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May 1991 -- C Fund, 4.30 percent; F Fund, .57 percent; and G Fund, .68 percent.

Last 12 months -- C Fund, 12.02 percent; F Fund, 12.01 percent; and G Fund, 8.69 percent.

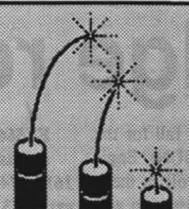
A copy of the complete fact sheet is available in the Human Resources Department, Building 2335, Room 100.

TSP Open Season is underway, but ends July 31. Changes in amounts of contributions are permitted during Open Season. Employees should contact their PMA team now and submit Form TSP-1 to

enroll or make changes to their contribution amounts. Submission of a TSP-1 form will affect only future contributions to the various funds.

Any portion of previous investments can be transferred, up to four times a year, to any of the three funds (G, C or F). Interfund transfer requests must be submitted on Form TSP-30 direct to the Thrift Savings Plan Service Office. You will receive a confirmation when the transfer of funds has been completed.

See your PMA team in the Human Resources Department to enroll in TSP, increase your contributions or to transfer money among the funds. The personnel employees will be happy to assist you or provide additional information.



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On August 26-30, one 40-hour high-reliability soldering course to MIL-STD-2000 will be held from 7:30 a.m. to 4:30 p.m. at 543 Graaf Street.

This course is for government/contractor personnel needing certification as inspectors or operators. Requirements for the course are (1) previous soldering experience; and (2) a current eye examination.

To be scheduled into class, contact the Soldering Training Facility, Code 36812, at 446-5571. After being scheduled into the certification course, please submit a Training Request (NAVWPNCEN 12410/73), with the appropriate job order number (JO) in Block 16, via department channels to Code 36812.

Self-study videos highlight programs

Scope: Video one covers desktop publishing, creating graphics, creating reverses, placing graphics, placing text and text blocks/strings. Video 2 covers setting preferences, creating shadow boxes, creating drop caps, using in-line graphics, inserting/deleting pages, text options, leading/kerning, creating pull quotes, forced justification, text rotation, paragraph options, using table editor and manual kerning. Video 3 covers using story editor, using spell checker, search/replace, creating styles, using image control, text wrap options, color options, printing options, saving options, linking features, on-line help using templates and tips and tricks. C Plus Plus (15 hours)

Self-study. By Zortech.

Scope: This course consists of six videos and one workbook. Video #1 covers the introduction, C++/ANSI C extensions, C++ specific extension, and references. Video #2 covers overloaded functions, operator overloading, data abstraction, more data abstraction and class member functions. Video #3 covers constructors, arrays; cleanup and

up, formatting, rulers, printing, new documents, and printing. Video #4 covers editing, copying, pasting, and undo/redo. Video #5 covers stream output, C++ stream input/output, first steps, trees of classes, polymorphism; and virtual functions. Video #6 covers doodle example, extending doodle; and input/output buffering. Macwrite II (4 hours)

For more information on these or other self-study courses, call NWC ext. 24511. NWC ext. 24511.

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Military News

Fonte joins the NWC CAAC team

by Peggy Shoaf
Rocketeer Staff Writer

"Our job isn't to destroy a sailor's career, but to provide every resource possible to help turn that sailor around so he (or she) can continue to be an asset to the Navy" said AME2 Peter Fonte. As the new counselor intern in the Naval Weapons Center's Counseling and Assistance Center (CAAC), Fonte works with CAAC's director, Esther O'Neil-Harden, counseling people who have a substance abuse problem, whether it is alcoholism, drug addiction or a food disorder.

the forms and interviews have been clarified, the CAAC counselor makes a recommendation on treatment for the problem, if the person is amenable and eligible. "OPNAV 5350.4B is our guide," Fonte explained.

If the problem is severe, the individual could be sent to a Level III facility, where he would spend six weeks as an inpatient, receiving intense group and one-on-one counseling. Afterwards, local CAAC counselors take over.

AME2 Fonte originally joined the Navy in 1977 and was immediately assigned to Attack Squadron 176 in NAS Oceana, Virginia Beach, Virginia. In his three and a half year tour, he was sent to the Mediterranean twice. He rotated to shore duty in 1981 and was assigned to NAS Whiting Field, Milton, Florida.

In 1983 he left the service and worked various jobs. He reentered the Navy thinking he could go to college and get his degree. But the best laid plans are still subject to change. He was assigned to the very next F-14 squadron unit, VP-74 from NAS Oceana, going to sea. He did two more Mediterranean cruises. Just before another deployment, he saw an article in the *All Hands* explaining the need for substance abuse counselors in the Navy.

"I have always been interested in this field," Fonte said, "and that article got me even more interested." During a work up exercise onboard the *U.S.S. Saratoga*, Fonte talked to the CAAC director, YNC Bob McClurg, at least an hour or two each day. "He encouraged me to go into the program," Fonte noted.

After arriving back to Oceana, he contacted another counselor, ETCS Manuel Pulley, who talked to him and had him sit through a Level II Alcohol Group. "A Level II group is where an individual comes after an alcoholic related incident, like a DUI. He has already had Level I counseling, the basic education, and in Level II, discusses the role alcohol plays in his life and comes up with a couple of plans to avoid that type of situation happening again," Fonte explained.



Esther O'Neil-Harden and AME2 Peter Fonte

Fonte noted that Senior Chief Pulley and other people who evaluated him during the time he spent in the Level II group were pleased with his interaction with the clients. "They recommended in the Navy is gone. It's not. Let me assure you, this problem is not gone, if anything, it has gotten worse," he emphasized.

What we do here is very important to me," stressed Fonte. "Commands need to understand if they think someone has a problem, they probably do have a problem and should be sent to CAAC to receive the help they need."

While CAAC is primarily for military personnel and their dependents, Department of Defense personnel who think they or a family member may have a problem can talk to one of the counselors.

"My main job is to help people," noted Fonte. "If there is a substance abuse problem, whether drugs, alcohol or food, I will ensure needed resources are available. My purpose isn't to kick people out of the Navy, but to help them stay in and be as productive as they can be."

Hospitality Kits established for military members

Hospitality Kits are presently being established by the Naval Weapons Center Ombudsman. The kits will consist of furniture and household items, which are temporarily checked out, free of charge, to military members with dependents who are without their household goods, or have emergency situations.

If you want further information or have any items that you would like to give to the Hospitality Kits, please call Vickie Watts, NWC Ombudsman at 446-7845.

National Museum in search of Naval aviation artifacts

The National Museum of Naval Aviation is currently in search of artifacts from World War II, Korea and Vietnam memorabilia.

These artifacts will be displayed as well as items liberated from enemy personnel including Japanese, North Korean and North Vietnamese uniforms, flags, weapons, swords and medals. If you would be willing to donate any of these items to the museum, contact Robert Macon or Jim Presley at the National Museum of Naval Aviation, NAS Pensacola, Fla. 32508-6800 or call (904) 452-3604.

East Coast Productions presents
Summerfest I
July 5, 1991
Naval Weapons Center Seafarer Club
9:30-Until
\$3 per person
Open to All
Don't be the one to miss out on one of the biggest parties of the summer in Ridgcrest.
Be a part of a new beginning.
Sponsored by
East Coast Productions
R&B, House Music, Disco, Rap,
Top 40

Navy PCS moves in good shape

Washington (NNS) -- Contrary to some waterfront scuttlebutt, Navy permanent change of station (PCS) moves are continuing through this summer and fall as planned. There is no shortage of money to pay for these transfers. These orders were issued an average of five and one-half months in advance of the transfer date, reflecting a change in the way PCS moves are planned.

"It is interesting that each year at this time a rumor starts that we are short of money -- bum dope -- we're in good shape," explained VADM. Mike Boarda, Chief of Naval Personnel. "We have successfully expanded the PCS detailing window to nine months ahead for most sailors coming up for orders. This increases the number of billets that a sailor and detailer can consider, while allowing enough time to issue most orders at least six months in advance of the PCS move."

Boarda explained that longer lead time benefits everyone involved in the PCS process. "Sailors and their families have more time to anticipate and plan PCS moves," he said. "Receiving commands have time to assign and energize sponsors."

With orders already issued for nearly 95 percent of PCS moves scheduled between now and Septem-

ber, detailers are now focusing most of their attention on moves in the December 1991 to March 1992 time frame."

"We have enough flexibility to make the last-minute moves that are critical," said Capt. Tom Tilt, director of enlisted assignments at BUPERS.

BUPERS has managed PCS dollars carefully to ensure there is sufficient money in the personnel budget for required moves. Through the year, some funding adjustments were required as a result of Operation Desert Shield/Storm, and revised plans for unit decommissionings and disestablishments.

To help offset these unexpected requirements, the Navy has saved some PCS money by encouraging voluntary extensions, controlling enroute training, and reassigning people to new jobs in the same geographic area whenever possible.

To keep regular PCS moves on course, BUPERS is continuing initiatives such as battle group pre-deployment detailing trips, decreding and deactivation conferences for ships and squadrons being disestablished by the drawdown of forces, and night detailing -- during which detailers man phones until 10 p.m. Washington time on the second and fourth Wednesday of each month.

Exchanging duty stations is possible

Washington (NNS) -- Sailors who want to change duty stations but are not eligible for permanent change of station (PCS) orders may want to consider an exchange of duty, or "swap."

Swaps are possible when two sailors are willing to move at their own expense, and when the swap is approved by both chains of command. There are two kinds of swaps -- self-negotiated and those negotiated by the Bureau of Naval Personnel (BUPERS).

Self-negotiated swaps are coordinated routinely through individual detailers, and are by far the most common type. Potential swappers can also put themselves on a list maintained by BUPERS in hopes that a comparable candidate will become available. There are currently fewer than 50 people on the BUPERS swap list.

"A swap can be a good alternative when a PCS

move isn't possible," said Capt. Tom Tilt, Director of enlisted assignment division at BUPERS. "We try to do the right thing for the sailors as often as possible."

To be eligible for a swap, both sailors must: have the same rate, rating and type of duty; have at least nine months at their command before submitting a swap request, and 12 months aboard by the time the swap is executed; be able to serve at least one year at the new command after the swap is completed (two years for nuclear-trained personnel); not have PCS orders at the time of the request; have no history of repeated disciplinary offenses and have the minimum evaluation marks as outlined in the enlisted transfer manual.

For more information on swaps, see chapter 16 of the enlisted transfer manual.

NEX is having July sale

Special attractions are waiting for those serving in the Armed Forces. The Navy Exchange welcomes home the U.S. Armed Forces and congratulates them for a job well done in Operation Desert Storm. As a special thank you, the Navy Exchange is offering a special Yellow Ribbon Coupon good for the month of July. Since the military members and their families have done so much for the United States, the Navy Exchange wants to do something for them!

During Yellow Ribbon Month (July), everyone can find a parade of values throughout the store. Present this coupon and receive an additional 10 percent off any one item.

It's a great month of savings, courtesy of your Navy Exchange.

Navy Exchange

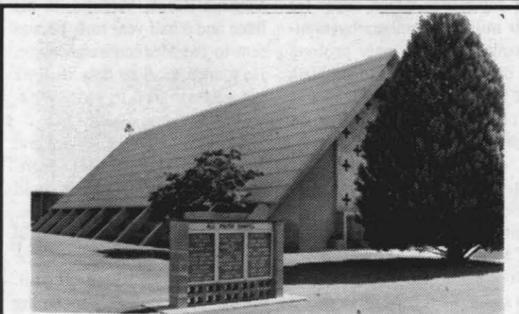
10% off Yellow Ribbon Month
Bring this coupon into the Navy Exchange and save an extra 10% on any one item.

Limit one coupon per customer. Expiration date: July 31, 1991.



WITT RECEIVES NAM - VX-5's XO, Cdr. John E. Voshell, presents the Navy Achievement Medal to AO1 Wesley W. Witt, for outstanding service while attached to his previous command Electronic Warfare Squadron 34.

Photo by PH3 Bushey



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 Blandly & 1903-05 Mitscher	9:00 a.m.
Bible Study (East Wing), Wednesday (September thru June)	11:30 a.m.
Men's Prayer Breakfast, East Wing, Thursday	6:30 a.m.
Officers' Christian Fellowship/Christian Military Fellowships, East Wing, Thursday	7:00 p.m.
Islamic	
Jumaa Prayer (Friday at 1002 Blandly)	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 Dibb, 1002 Blandly, 1008-10 Blandly & 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)
Chaplain S. A. Casimano, LCDR, CHC, USN Chaplain G. L. Goodman, LT, CHC, USNR Hearing Impaired Equipment, Nursery Available Phone NWC ext. 3506, 2773, 2873	

CAR WASH
Sponsored by the Marine Aviation Detachment (MAD)
Soap begins to lather at 8 a.m.
Thursday, July 18, 1991
Location: Mad Parking Lot
(Nimitz & Lauritsen)
Price: Let your conscience be your guide
Coffee & Donut \$.50
Hot Dog & Soda \$1.00
For more information call NWC ext. 939-6601

Northridge reveals fall schedule

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

EE551N: Digital Signal Processing (3 units)
August 26-December 12; Mondays, Wednesdays and Thursdays, 1130-1230; Training Center. By Dr. Wade Swinford, NWC ext. 2878.

Prerequisite: EE351N: Linear Systems II or equivalent or consent of instructor.

Scope: Difference equations, state equations and frequency-domain analysis of discrete-time systems. Fast Fourier Transform algorithms. Tellegen's theorem and sensitivity analysis. Network structures for digital filters. Digital filter design.

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

Text: *Discrete-Time Signal Processing*. Oppenheim and Schaffer. McGraw-Hill, latest edition.

EE522: Digital Systems Structure (3 units)
August 30-December 13; Fridays, 1530-1830; Training Center. By Dr. Robert Wang, CSUN, (818) 885-2190.

Prerequisite: EE422N: Design of Digital Computers or equivalent or consent of instructor.

Scope: Studies of digital systems architectures primarily from the hardware viewpoint. Techniques and design methods employed for general purpose computers. Unconventional and special-purpose computers, such as parallel processors, associative processors, pipeline processors, array processors, list processors, hardware compilers.

Text: No text. Instructor will provide copies of lecture notes to course participants.

EE566N: Fiber-Optic Communications (3 units)
August 26-December 11; Mondays and Wednesdays, 1610-1740; Training Center. By Dr. Victor Lo, NWC ext. 2573.

Prerequisite: EE460N: Introduction to Communication Systems or equivalent or consent of instructor.

Scope: A comprehensive description of the technology of fiber optical communication systems. A balanced discussion between component operation and system design considerations. Performance parameters and fabrication problems, lasers, LED modulation and detector responses. Link budget analysis. Advantages of fiber optics, recent developments and applications.

Text: No text. Instructor will provide copies of lecture notes to course participants.

ME509: Simulation of Dynamic Mechanical Systems (3 units)

August 27-December 10; Tuesdays, 1610-1910; Training Center. By Dr. Tom Mincer, CSUN, (818) 885-2078.

Prerequisite: A bachelor's degree in engineering or consent of instructor.

Scope: Application of numerical techniques to the dynamic analysis of moderate- and large-scale engineering systems. Emphasis is on mechanical systems described by continuous ordinary and partial differential equations, both linear and on-linear. State vector modeling, solution algorithms, and system simulation utilizing FORTRAN and FORTRAN based commercial simulation software are presented, with application to thermal-fluid, mechanical and aerospace systems.

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

Text: *System Dynamics*. Karnopp, Margolis, and Rosenberg. John Wiley, second edition.

ME490: Fluid Dynamics (3 units)
August 26-December 16; Mondays, 1610-1910;

Training Center. By Dr. Gutmark, NWC ext. 3745.

Prerequisite: ME390: Fluid Mechanics or equivalent or consent of instructor.

Scope: Applications to systems of engineering interest. Potential flows, boundary layers, duct flows, jets and wakes, turbulent flows, lift and drag. One dimensional compressible flow with area change, friction, heating/cooling, normal shock waves, oblique shock waves and Prandtl-Meyer expansions. Experimental, numerical and analytical techniques are explored.

Text: *Foundations of Aerodynamics*. A.M. Kuethe and C.Y. Chow. John Wiley & Sons, latest edition.

IE506B: Systems Engineering and Operations Research (3 units)

August 26-December 16; Mondays, 1610-1910; Training Center. By Ken Woods, NWC ext. 2296.

Prerequisite: Math 477: Theory of Probability or equivalent or consent of instructor.

Scope: An integrated presentation of systems methodology and mathematical bases for decision in industry. Inventory, allocation, queueing, sequencing, network, replacement, search, and competitive models. An overview of system engineering including its relationships to and dependence on other scientific areas. Selected approaches in systems science, such as linear, integer, dynamic and non-linear programming, will be addressed. Emphasis will be placed on the development and formulation of practical solutions to real-world problems.

Text: *Introduction to Operations Research*. Hillier and Lieberman. Holden-Day, fifth edition.

Comments

Job-related courses other than those listed above or those offered under contract with Cal-State Chico, Bakersfield or 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.

NWC Training Center personnel use returned surveys to decide classes

At the beginning of the year, the Naval Weapons Center participated in an annual training survey conducted by the Training Center. According to Training Center personnel, there was a 62 percent return rate on the surveys, with Codes 28 and 64 having the most returns.

Upon receiving the surveys, teams of training specialists and assistants read them and made decisions on what will be offered next year. Training Center personnel noted NWC employees were very responsive in giving good quality suggestions and offering ideas for new courses.

Based on the surveys' inputs, the following new subjects will be offered as early as this fall.

The new subjects include Explosives Technology & Modeling, Fuzzy Logic, E.I.T. Review, Antenna Arrays (Phased, Near & Farfield), More Electronics for Technicians, Mass Properties, Digital Video Transmission, Smart Skins; Fiber Optic Integration, Monte Carlo Simulation, Robust Design & Control, MIL-STD 1553 and MIL-STD 1760, Global Positioning, Investigation Techniques for Supervisors, Politics of the Middle East, Missiles & Missions for Non-Technical Personnel, TQM for Software Development, Estimating & Formulating Budgets, Awarding Government Contracts for Non-Procurement Types, Big Picture Procurements and Carpal Tunnel Syndrome.

UCLA Extension offers variety of short courses

Throughout the year, the UCLA Extension offers a variety of short courses which may be of interest to Naval Weapons Center employees. People interested in knowing more about the courses being offered should write to UCLA Extension, Engineering Short Courses, 10995 LeConte Ave., Ste. 540, Los Angeles, CA 90024. Or, you may call (213) 825-1047.

Upcoming classes include *Virtual Interface Technology (Virtual Reality)*; *Data, Speech, Impage and Video Compression: Principles, Applications and Standards*; *Neural Network Computing, Molecular Electronics and Biotechnology*; *Kalman Filtering*; *Photometry, Colorimetry and Electronic Imagery*; *Structural Integrity of New and Aging Metallic Aircraft*; and *The Global Change Research Program: Requirements, Technologies and Opportunities*.

TLB Charter Services 233 W. Ridgecrest Blvd. 375-1581
Mon. • Tues. • Fri. 10-2PM

July 31st & August 1st & 2nd 3 days & 2 nights in Laughlin Staying at "Sams Town" \$40 per person double occupancy \$50 for single Includes Room & 1 Free Buffet	July 13th 1 day Laughlin turnaround Stay in Laughlin for 8 Hours Drop off at Gold Nugget - Go Anywhere \$10 per person 1 Free Buffet	July 20th FREE TRIP To Nevada Landing - in Jean Depart 6:00 a.m. - Return 10:00 p.m. 8 Hours in Jean
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VX-5 has positions open at China Lake

Following is a Merit Promotion Program vacancy announcement submitted by the Consolidated Civilian Personnel Office in Norfolk, Virginia.

No. 0190/SS/CI, Technical Publications Writer-Editor (Physical Science and Engineering), GS-1083-7/9/11/12. This position is assigned to Commander Operational Test and Evaluation Force in Norfolk, Virginia and located at Air Test and Evaluation Squadron Five, China Lake, California. Incumbent edits material submitted by operation test directors, engineers and technical writers. Determines whether material should be added or omitted in order to fulfill project requirements or to convey the author's intended message. Writes publications based on personal knowledge of the subject matter and on information gained through research, interviews, observation and notes or other material. **Qualifications:** To be eligible, applicants must have the amounts of general and/or specialized experience required by the published qualifications standards. For general schedule positions, such experience must be at a level sufficient to satisfy time-in-grade and quality level stipulations as of the closing date of this announcement. The following experience and/or rating factors are relevant to this vacancy. Applicants must have one year specialized experience equivalent to the next lower grade level. **Rating Factors:** Applicants need to have strong technical background in the area of flight test and evaluation; proficiency in researching, writing, editing and publishing technical reports, test plans and related documents; and be familiar with Navy's current technical reporting style and common formats used by the naval aviation community. Note: If selection is made at the GS-7/9 or 11 level, selectee may be promoted to the full performance level of GS-12 without further competition. Activity will not pay relocation expenses. Selectee must be eligible for a SECRET security clearance. Area of consideration includes appointable employees of DoD activities nationwide and spouses (with appointable status currently in permanent positions on DoD rolls) of relocating

active duty military members and DoD civilian employees during the 30 days preceding through the six months following sponsor's relocation to the commuting area. Area of consideration is limited due to hiring freeze imposed by higher authority. To apply, submit a completed SF-171 and current annual performance rating to CCPO Naval Base, Norfolk, VA 23511-5360 by 4 p.m. on July 5. If no rating is available, submit statement to this effect and reason. Applicants who wish to be notified of action taken must submit CCPO NORVA 12330/12 Reply Card with their SF-171s. To ensure proper consideration, applicants should put the announcement number of the position applied for on their SF-171s.

Following is a Merit Staffing Program vacancy announcement from the Department of the Navy, Naval Air Station, Lemoore, California.

No. 074-L-91, Aircraft Dispatcher (Typing), GS-2151-4/5, \$15,171/\$16,973 per year (or higher step in accordance with regulations). This position is located at Air Test/Evaluation Squadron Five, NWC China Lake, CA. Incumbent coordinates and schedules numerous aircraft of various types and different aircrews for operational tests and flights of other purposes. Prepared Daily Flight Schedules. Maintains aviator log books to record and document all flights flown and ensure proper accounting of flight plans and statistics. Verifies and maintains Naval Aircraft Flight Record files. Prepares a variety of written material such as letters, memoranda, reports, notices, Naval messages or other official material; writes routine correspondence and reports; maintains a tickler file for reports; and initiates, formats and compiles information for reports. **Qualification Requirements:** For GS-4, applicants must have one year progressively responsible clerical, office or other work which indicates ability to acquire the particular knowledges and skills needed to perform Aircraft Dispatcher duties. For GS-5, applicants must have one year of specialized experience equivalent to

the GS-4 level. Specialized experience is experience which is or directly related to the line of work of the position to be filled as outlined in the duties above and which has equipped the applicant with the particular knowledge, skills and abilities to successfully perform Aircraft Dispatcher duties. Must be able to operate an alpha-numeric keyboard at a rate of 40 wpm. Additional information regarding qualification requirements may be found in the Office of Personnel Management Handbook X-118. With the exception of reassignment and voluntary change to lower grade, applications of candidates meeting the basic qualification requirements (outlined above) will be evaluated against the abbreviated crediting plan. This method of evaluation compares the candidates experience, education/training/self development, performance appraisal rating and awards as related to the position to be filled. Experience will be based on the following factors: knowledge of aircraft and flight scheduling procedures; ability to work effectively with others; ability to work under pressure; ability to perform duties requiring attention to detail; ability to communicate orally and prepare writer reports/correspondence. Note: On a separate sheet of paper, as supplement to your SF-171, provide examples of your knowledges, skills and abilities applicable to each of the factors identified above. The area of consideration is Dod activities in the commuting area and DoD eligibles for transfer. Position requires security clearance and selection may be made at either level. Promotion to level above that of selection is NOT guaranteed, but may be done without further competition. Applications received by June 28 will be processed first. Those received after June 28 will be processed in order of receipt. To apply, submit a SF-171, Background Survey Questionnaire and a copy of your most recent performance rating to the Civilian Personnel Department, Training Bldg. A (North Entrance Rm. 113, Naval Air Station, Lemoore, California 93246-5001. This announcement will remain open until filled.

Save for college now!

In the year 2006, a single year of college education could cost as much as \$37,600. Will your checkbook be able to stand such a burden? Start your child's education fund now through the U.S. Savings Bond payroll savings plan. Check with your bond program representative for information of the new Education Bonds Program applicable to bonds purchased after January 1, 1990.

INVEST IN YOUR FUTURE NOW AND DOWN THE ROAD.



And get a free \$75 U.S. Savings Bond.

Buy 4 Michelin XA4, XH* or XH M&S tires for your family car and get a free \$75 U.S. Savings Bond.

The XA4 is a premium high-mileage tire that gives a quiet, comfortable ride with superb traction. It's a terrific tire all around, year-round.

The XH and XH M&S tires are Michelin's highest mileage tires. They give you plenty of comfort and value, and hang tough in all kinds of weather! This offer ends July 15, 1991, so see your Michelin dealer today!



Use of U.S. Savings Bonds does not imply endorsement by the Department of the Treasury.

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59⁸⁸
Expires 7/17/91
• Machine Rotors
• Repack Wheel Bearings
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• Metallic Pads Slightly Higher

Alignment
29⁸⁸
Expires 7/17/91 - Most Cars & Pick Ups

Drill helps identify problem areas

(Continued from Page 1)

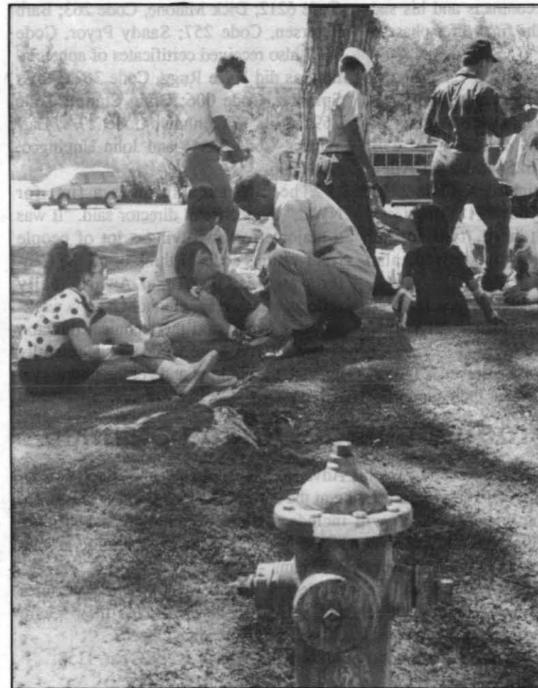
radio operators, who relayed reports of damage at Cerro Coso Community College, which collapsed during the mock earthquake. Boy Scout volunteers who were taken to the college for the exercise, simulated injuries and

after receiving first aid, were brought to the Ridgecrest Community Hospital for further treatment.

The local American Red Cross chapter aided the Ridgecrest community by setting up emergency shelters for any people forced

from their homes throughout the city.

"We learned a lot from this exercise," said Capt. Allen. "But it doesn't stop here. We need to write down where the problems were and start correcting those problems." That effort is already underway at NWC.



EMERGENCY HELP ON HAND -- Corpsmen from the NWC Branch Medical Clinic and Emergency Medical Technicians from NWC's Fire Division were rendered first aid during last Friday's disaster drill. Above, corpsmen are treating the injured at the O'Club. At right, a corpsman is administering first-aid to one of the "victims." Victims were portrayed by Girl Scout volunteers. At bottom, an NWC fire fighter helps one of the EMTs unload a stretcher. TID Photos

Real disaster causes little concern here

At 7:43 on Friday morning, a real earthquake shook the Los Angeles area, causing two fatalities and injuring more than 100 people. The 6.0 tremor was also felt at the Naval Weapons Center. While the quake didn't cause any damage on-Center, Morale, Welfare and Recreation Department personnel did evacuate their offices and the NWC Gymnasium.

"Because of the age of the building, we felt it would be safer to evacuate," said Karen Rivers, a gymnasium employee. "Everyone was very cooperative and left quickly in an orderly manner. However, some did remark it was a little early for the drill."

People were able to return to their normal activities within minutes.

Commissary open Friday & Saturday

Because the Fourth of July falls on Thursday this week, the Naval Weapons Center Commissary will be open from 11 a.m. to 3 p.m. only on both Friday, July 5 and Saturday, July 6. Normal hours of operation will resume next week according to the Commissary Store manager.

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Recipients need additional leave hours

Employees indicated below have been approved to become leave recipients under the Leave Transfer Program. These employees have exhausted annual and/or sick leave because of personal emergencies and will be in a non-pay status for at least ten days. Employees who wish to donate annual leave to the employee should call NWC ext. 2018.

Mark VanDevender, Computer Specialist, Code 64303 -- is indebted for 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.

Jo Ann Van Valkenburgh, Purchasing Agent, Code 258 -- is undergoing major surgery and is in need of leave.

Maryann Hiser, Engineering Data Management Specialist, Code 36542 -- will be undergoing major surgery and is in need of leave.

Give a helping hand and donate annual leave. If you can't use it, don't lose it -- donate it!

Betty Cirotski, 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 30 -- 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.

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

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

Superpoint video available

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Self-study. By MacAcademy. VHS video.

Learn about preferences, tools, draw objects, line widths, creation tools, pattern tools, special paint tools, power keys, filling patterns, x-ray lasso, duplicate/replicate, view menu, option menu, plug ins and selecting in Video 1. Video 2 teaches paint menu, text effects, paint effects, brush symmetry, air brush, draw layers, draw grouping, object information, bezier curves, text effects, super bits, plug in tools and fill blending. For more information, call NWC ext. 2451.

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CLINICAL PSYCHOLOGY
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Dream becomes communications contract

Conceived more than 10 years ago, the idea of an up-to-date telecommunications system which meet users' demands at the Naval Weapons Center today, as well as in the future, was just a dream. Today, it is becoming a reality thanks to the hard work, dedication and ingenuity of a wide range of people. Those individuals were recently recognized at an awards ceremony by Bill Porter, NWC's Technical Director.

Receiving the Naval Weapons Center's team award were Jerry Allen, Randy Christensen, Jim Field, Lee King, Tom Kramer, John LaMarr, Chris Lucas and Sam Rainwater.

Allen, a member of the Information Systems Group's Telecommunications Project Branch, received recognition for his contributions in the area of test range communications systems and range data requirements.

Part of the Aircraft Weapons Integration Department's Advanced Systems Project Office, Christensen was praised for his

expertise in software and data systems.

Field, also with the Telecommunications Project Branch, was commended for his work as the CTS chief engineer, providing needed technical experience.

King, who works in the Information Systems Group's Telephone Services Branch, was the management panel chief for the source selection board and provided needed data and management expertise.

Kramer, a member of the Information Resources Technology Support Division's Information Resources Acquisition Management Branch, contributed his knowledge as an ADP acquisition specialist, working as a member of the management panel team.

LaMarr, special assistant for Communications in the Information Systems Group, was praised for being involved in every aspect of the project, working many long hours on his own time and providing outstanding leadership.

Lucas's experience in the data field and

her work as a member of the management panel was recognized. Lucas is an employee in the Telecommunications Project Branch.

Rainwater, a contract specialist in the Procurement Department, was commended for his expertise in contracts and his success in conducting the final offer phase of the procurement.

Ten individuals received CTS plaques for their efforts in supporting the project. NWC plaque recipients were Sandra Collier, Code 25; Blaine Manson, Code 25B; Bryon Self, Code 62544; David Allen, Code 2711, Phil Bainbridge, Code 2712; and John Mooney, Code 2711. Bob Geeting and Fritz Pritchard, two former employees who are now retired, also received plaques.

Contractors receiving plaques for their support include Susan Yaeger, CTA, Inc., and Tim Smith, TMD/W.

The following people received CTS certificates of appreciation for their support of

the Center Telecommunications System Project: Leon Ammerman, Code 2712; Bill Bonner, Code 2601; Grover Bradley, Code 6446; Frank Cox, Code 2635; and Jay Crawford, Code 31C.

Vic Jensen, Code 2723; H. Ed Lusher, Code 6212; Dick Malone, Code 263; Barb Petersen, Code 257; Sandy Pryor, Code 3627 also received certificates of appreciation, as did Dave Rugg, Code 3627; Russ Spindler, Code 006; Craig Stump, Code 2691; Nils Wagenhals, Code 27A; Earl Wicker, Code 62544 and John Unpingco, Code 006.

"The CTS acquisition is a first for NWC," the technical director said. "It was a major effort involving a lot of people from various codes. I think of all the Center's awards, the Team Award really reflects what we are all about here -- working as a team" said the technical director. "Now all you have to do is successfully manage the contract and get the phone system on line!"

Product demonstration planned

AT&T Federal Systems Advanced Technologies and Ricoh Corporation will conduct a briefing at the Naval Weapons Center on July 15. The briefing, which will include a slide presentation and product demonstration, will be conducted at the Seafarer Club starting at 1:30 p.m. and should be over by 3:30 p.m.

AT&T will provide an overview of their new STU-III architectures for Type 1 and 2 applications, while Ricoh will discuss their secure Fax products. Attendees must be U.S. or Canadian citizens.

For further information, call Cynthia Wilson at NWC ext. 1158.

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TOGETHER A TEAM --
The successful awarding of the CTS contract resulted in the Naval Weapons Center's Team Award for Tom Kramer, Jim Field, Jerry Allen, Chris Lucas, Sam Rainwater, John LaMarr, (not shown) Lee King and Randy Christensen. Bill Porter, NWC's Technical Director, distributed the awards and congratulated the team on their efforts on behalf of the NWC management.

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Qualified applicants needed for positions at NWC

develop and interpret schematics and engineering drawings, skill in operating computer systems; ability to maintain, calibrate, and troubleshoot electronic equipment; knowledge of communications systems; knowledge of NWC test range operations. Promotion potential to DT-3. Previous applicants need not reapply.

No. 62-026, Computer Engineering Technician, DT/DP-802-3, Code 62221 - This position is located in the Supersonic Naval Ordnance Research Track (SNORT) Operations Branch. The Branch provides the facilities, personnel, and equipment to operate the track ranges. The incumbent will perform as a Com-

puter Engineering Technician in the Branch's Instrumentation Section. The incumbent will provide customer data product support to include analysis of data requirements, modification of software, operational test support, and post test data analysis. Development and implementation of PC based data reduction systems. Conversion of software to DOS. Maintenance and development of local area network hardware and software applications. Manage ADP computing resources (includes administrative responsibilities and VAX System Management). **Job Relevant Criteria:** Knowledge of PCM and FM based Telemetry Systems, Vax VMS Systems Management, 386/486 based

Computing Hardware, Local Area Networks, Fortran, C and/or Pascal, Instrumentation Systems, and Electronics. Promotion potential to DP-3, but not guaranteed.

No. 62-027, Computer Specialist, DS/DP-334-3, Code 62221 - This position is located in the Supersonic Naval Ordnance Research Track (SNORT) Operations Branch. The Branch provides the facilities, personnel, and equipment to operate the track ranges. The incumbent will perform as a Computer scientist in the Branch's Instrumentation Section. The incumbent will provide customer data product support to include analysis of data requirements, modifica-

tion of software, operational test support, and post test data analysis. Development and implementation of PC based Data Reduction Systems. Conversion of software to DOS. Maintenance and development of local area network hardware and software applications. Manage ADP computing resources (including administrative responsibilities and Vax System Management). **Job Relevant Criteria:** Knowledge of PCM and FM based Telemetry Systems, VAX VMS Systems Management, 386/486 Based Computing Hardware, Local Area Networks, Fortran, C and/or Pascal, Instrumentation Systems, and Electronics. Promotion potential to DP-3 but not guaranteed.

Reassignment opportunities

This column is used to fill positions through reassignment only. For this reason, the Reassignment Opportunity Announcements are separate from the Promotion Opportunities column in the Rocketeer. Applications will be accepted until the date stated in the announcement. Employees whose work history has not been brought up to date are encouraged to file an SF-171 or 172. All applications must meet minimum qualification requirements established by the Office of Personnel Management. Information concerning the recruitment and placement program and the evaluation methods used in these reassignment opportunities may be obtained from Personnel Management Advisors (Code 096 or 097). Applications should be filed with the person whose name is listed in the announcement. The Naval Weapons Center is an Equal Opportunity Employer.

No. 64-033, Interdisciplinary (General/Aerospace/Mechanical Engineer/Physicist) DP-801/861/830/1310-1/2/3, Code 6411 - This position is located in the Design Section, Systems Development Branch, Recovery Systems Division, Aerosystems Department. The incumbent's responsibilities will include the design, development, test, and evaluation of emergency and premeditated recovery systems for aircrews as well as retardation, stabilization, and recovery systems for ordnance and missile systems. The work will primarily involve the design and development of textile parachute systems, but there will be opportunities to work with other aerodynamic decelerator technologies. Additional tasks may include mechanical integration design and ejection seats, aircrew escape capsules, missile/ordnance systems, airdrop test vehicles, and Navy test parachutists. There will be substantial hands-on experience with design and testing of parachute systems. Technical knowledge of parachute systems is desirable but not required. Opportunities will be provided for formal and on-the-job training in the areas of textiles and aerodynamic decelerator technology. Applicants should possess a fundamental knowledge of aerodynamics and mechanical design, a basic knowledge of FORTRAN, and experience with Macintosh or other PC's. The incumbent must be able to work well

with others with minimal supervision and be able to communicate effectively both orally and in writing. Promotion potential to DP-3, but not guaranteed. To apply, please submit a SF-171 to C.K. Kato, NWC, Code 6411. This ad will close on July 11, 1991.

No. 64-034, Interdisciplinary (Mathematician/Physicist), DP-1520/1310-2/3, Code 64112 - This position is located in the Data Analysis Section of the Systems Development Branch. The section is responsible for the conduct of a variety of computer related tasks including software development, reduction and analysis of test data, data visualization, data base management, and computer systems management. The incumbent will perform duties in support of section activities primarily in the areas of software development, data reduction and analysis, and data visualization. A thorough working knowledge of the C and/or FORTRAN programming languages is required. Applicants must have: experience and knowledge of numerical analysis and digital signal processing techniques; familiarity with the UNIX operating system programming; graphics programming experience; and X Windows programming experience. Promotion potential to DP-3, but not guaranteed. To apply, submit a current SF-171 to Tom Bozak, NWC, Code 64112. This ad will close on July 11, 1991.

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 - Incumbent will provide secretarial and administrative support to the Radar Warning Receivers (RWR) Branch. Ability to operate a Macintosh computer is necessary. Full performance level of this position is DG-2. Previous applicants need not reapply.

and other branch personnel. Knowledge of IBM PC or the Macintosh PC is desired, but not required. Promotion potential to DG-2, but not guaranteed.

No. 35-015, Secretary (Typing) DG-318-1/2, Code 3571 - This position is located in the Attack Weapons Department, Systems Development Branch. The incumbent will provide secretarial support to the Branch Head

No. 64-032, Secretary (Typing), DG-318-1/2, Code 6424 - This position is located in the Telemetry Systems Branch of the Aerosystems Department. Incumbent will provide secretarial support to the Branch Head and Branch members. Knowledge and experience on the Macintosh computer is desirable but not required. Promotional potential is DG-2, but not guaranteed.

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For more information, call NWC ext. 2451.

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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. 00-013, Public Affairs Assistant (Typing), DG-303-2, Code 003 - This position is located in the Public Affairs Office, Office of the Commander. The incumbent will provide Public Affairs assistance for wide-ranging public affairs/community related programs and projects and support internal and external information programs. The incumbent will assist the Public Affairs staff on a variety of public affairs initiatives. **Job Relevant Criteria:** Ability to operate the Macintosh computer system; ability to interact with people at all levels both on and off center; ability to compose, prepare and review correspondence. The full performance of this position is to the DG-3 level, but not guaranteed.

No. 24-018 Clerk Typist DG-322 -A/1 Code 2412 - This position is located in the Division Record Section, Police Investigation Branch, Law Enforcement Physical Security

(LEPS) Division, Safety and Security Department. The incumbent is responsible for assisting in the day-to-day operations of the LEPS Division Record Section in a variety of areas such as filing police reports, computer system operation, receiving visitors and/or telephone calls, and providing clerical support. Must be able to type a minimum of 40 words per minute. **Job relevant criteria:** Ability to communicate orally; Ability to deal effectively with people; Ability to perform receptionist and telephone duties; Knowledge of filing systems and files management.

No. 28-052, Administrative Officer, DP-341-3, Code 2802 - This position is the Head of Staff, Office of the Comptroller. The incumbent is responsible for the department's resource planning, including FE\$, budget and manpower. The incumbent supervises a training office and directs the department's administrative

operations through the division AOs. The incumbent serves as the department's approving official for Bankcard buying, and is also responsible for facility management. The Head of Staff provides advice and resource assistance in solving personnel issues, and is the department's POC for Affirmative Action and EEO. **Job Relevant Criteria:** Knowledge and application of affirmative action principles including a willingness to implement EEO practices; knowledge of training techniques; ability to interface with personnel at all levels on and off Center; ability to communicate effectively orally and in writing; ability to administer resources, including budget, facilities, equipment, space and manpower. Incumbent may have to serve a one year supervisory probation period. Full performance level of this position is DP-3.

No. 28-053, Supervisory Payroll

Technician, DG-544-2/3, Code 2853 - Incumbent supervises 7-10 payroll clerks/technicians in the Payroll Branch, Customer Services Division, Office of the Comptroller. Duties include assigning and scheduling work, establishing procedures, training new employees, providing guidance and assistance, and checking work of subordinates. In addition, the incumbent is responsible for monitoring and maintaining the basic master control accounts for leave and payroll. The incumbent prepares special reports as required by the Head, Payroll Branch and serves as the control point/liason for payroll accounting data to and from the data processing group. **Job Relevant Criteria:** Knowledge of computerized payroll systems; knowledge of federal payroll policies and procedures; knowledge of affirmative action including a willingness to implement EEO policies and goals; ability to meet deadlines under pressure; ability to act as a first line supervisor. Incumbent may have to serve a one year supervisory probationary period. Promotion potential to the DG-4 level.

No. 32-013, Mechanical Engineering Technician, DT-802-2/3, Code 3216 (Multiple Vacancies). This position is located in the Energetic Materials Process Support Branch, Energetic Materials Division of the Ordnance Systems Department. The incumbent is supervised by the branch head; however, most work is performed directly with scientists and engineers. The incumbent will be responsible for fabrication of specialized ordnance development and formulations equipment. Responsible for design and fabrication of specialized ordnance tools, jigs, fixtures, molds, etc. Interfaces with scientists and engineers and works from drawings, sketches and/or verbal instructions. Often required to provide and implement solutions to verbally defined problems on short notice. This position requires standing for extended periods of time, lifting heavy weights, and wearing protective clothing and safety equipment. **Job Relevant Criteria:** Knowledge of basic math, algebra, trigonometry; knowledge of ordnance safety; ability to operate machine tools; ability to develop and interpret schematics and engineering drawings; ability to communicate orally; ability to communicate in writing. Promotion potential to a DT-3, but not guaranteed.

No. 32-014, Multidisciplinary (Engineering, Chemical Engineering, Physical Science Technician), DT-802/1311-1/2/3, Code 3212 - This position is located in the Thermal and Process Evaluation Branch, Energetic Materials Division of the Ordnance Systems Department. Incumbent is responsible for learning safe procedures for explosives pro-

cessing operations, achieving skilled operator status and using the skills to complete a variety of operations. Activities include handling, mixing, pressing and loading developmental explosives. Additional tasks include participating in process planning, making and documenting process observations, collecting data, writing summary reports to customers and maintaining a clean orderly work area. Lifting materials up to 70 pounds is a common element of this position. Incumbent is required to participate in the Respiratory Protection Program. **Job Relevant Criteria:** DT-1: Knowledge of elementary physics and/or chemistry; knowledge of basic mathematics; knowledge of ordnance safety; knowledge of personal computers used for word processing and spread sheets; ability to communicate in writing; ability to communicate orally. DT-2/3: Knowledge of elementary physics and/or chemistry; knowledge of basic mathematics; knowledge of ordnance explosive devices and explosives safety; knowledge of personal computers used for word processing and spread sheets; ability to communicate in writing; ability to communicate orally. Promotion potential to DT-3, but not guaranteed.

No. 39-022, Support Services Specialist, DG-0342-3, Intercept Weapons Department, Sidewinder Technical Office AIM-9M(r) (Code 39B10). Incumbent will provide administrative and secretarial support, duties including financial and contractual monitoring, WBS tracking, personnel, travel, programmatic filing, small procurement. Knowledge of SECVAVINST 5216.5C and proofreading skills a must. Proficiency on a Macintosh and IBM computer is desired. Must be able to maintain a secret clearance. **Job Relevant Criteria:** Knowledge of NWC accounting procedures, knowledge of NWC procurement regulations, knowledge of NWC contracting procedures. Promotion potential to DG-3.

No. 62-019, Electronics Technician, DT-856-1/2/3, Code 62511 - This position is located in the Computer Operations Section of the Computer Systems Branch, Data Systems Division, Range Department. Incumbent will assist in the operation and maintenance of the Range Control Center Integration and Processing Systems (RIPS), a major range instrumentation system. This center supports many aspects of range testing and is crucial to controlling tests and providing data to range customers. Incumbent will provide technical support to this system; operate, maintain, and repair large sophisticated computer systems including peripherals; and gain familiarity with video systems and data interfaces. **Job Relevant Criteria:** Ability to

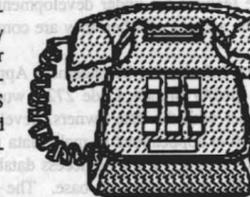
(Continued on Page 19)

CTS: Outside cable installation underway throughout Naval Weapons Center for new communications system

CTS implementation continues with the start of the Outside Cable Plant installation. Installation began in the Thompson Lab and Range Control Center areas on June 24 and will commence shortly in other areas of the Center.

This phase of CTS involves the installation of the cable that will provide connectivity between each building on Center and the switch that provides service for that building. The procedure for installing this cable includes trenching along the cable routes, laying the required cable or conduit and refilling the trench. The routes that the CTS contractor, Contel Advanced Systems, Inc. (CASI) will be following have been previously marked. In addition, location of underground utilities has been determined in coordination with PW and the department facility contacts.

If you have any concerns or questions during this installation, please contact the CTS team on extension 1659. Please remember that the contractor can only be requested to stop work for immediate safety or security reasons. The COTR for the CTS contract is the only one allowed to stop work for any other reasons.



HELP IS APPRECIATED - Col. J.R. Agenbroad, Commanding Officer of the Marine Aviation Detachment (MAD) at China Lake, and 1st Sgt. R.L. Hatley, donate a portion of the money the Marines raised in their recently held MAD DASH (10K run/5K walk) back to the local community via the DARE Program. Accepting the money on behalf of the DARE organization are Ridgecrest Police Officers J. Ortiz and R. Bell. Upon receiving thanks for the money, Col. Agenbroad noted, "the thanks go to the local merchants who sponsored the race and those who participated in the race."

Photo by PH3 Cary Brady

Hot times demand protection from heat

Hot weather is here! With it comes the threat of sunburn, heat stroke or heat exhaustion.

To avoid overexposure to the sun, stay inside between 10 a.m. and 3 p.m. If you must go out, wear protective clothing such as long sleeves and long pants or skirts made from tightly woven material. Also use sun-screening

lotions and creams with a Sun Protective Factor (SPF) of 15 or higher. This helps to prevent sunburn, which is a primary cause of skin cancer.

Heat stroke, caused by overexposure to hot sun, results in loss of water and other important chemicals from the body. Symptoms are usually a high fever and

loss of consciousness. If this happens, the person needs immediate medical treatment. While waiting for help to arrive, offer first aid by reducing the person's body temperature as fast as possible. Remove the person's clothing and wrap him or her in wet sheets or towels. If possible, place the patient in front of a fan, which

speeds cooling of the body. Ice packs can be applied to the head and back of neck if possible.

Heat exhaustion is very common where there is excessive heat and humidity which causes the individual to sweat profusely. Symptoms are cold, clammy skin; shallow breathing; dizziness; weakness; faintness; and thirst.

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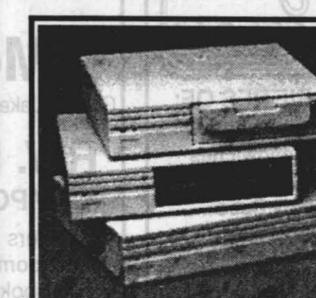
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VAX Cluster offering many 'find' features

Finding particular information about personnel, work requests, job orders, and Center activities can be a cumbersome task. You get bits and pieces of what you want to know through the stacks of paperwork routed across your desk weekly. Now you can find this information in electronic format on the Code 27 SCF VAX Cluster. Much of this information is available to you even if you don't have an account on the SCF. If you are connected to the NWCNET, you have a wealth of information right at your fingertips!

The Code 27 SCF VAX Cluster contains five helpful features that give you access to Public Works work request status (FINDWR), on-line NWC Announcements (BLUESHEET), the NWC personnel directory (FINDNAME), financial information (FINDCHARGES), and Space Resources space reports (FINDSPACE). More features are under development and will be announced when they are completed.

The Information Management Applications (IMA) Branch, Code 2723, working together with the data owners, developed these five applications to make data that's usually tied up in limited-access databases available to everyone on base. The IMA Branch provides analysis, design, development, training, and documentation for data management software. Their goal in creating these VAX features is to encourage, support, and foster the electronic exchange of NWC corporate data Center-wide.

If you have an account on the SCF, you may enter FINDINFO at the \$ prompt. FINDINFO has the master menu, giving you a choice of any of the five helpful tools.

If you don't have an account on the SCF, you can still use three of the features: BLUESHEET, FINDNAME, and FINDWR. These three applications reside in special accounts, so anyone with access to the NWCNET can use them without an

account. To access any of these three, connect to one of the nodes on SCF by following one of these steps:

1. At the LOCAL> prompt, enter "C SCFC," "C SCFE," or "C SCFF."
2. If you are connected to another code's VAX, at the \$ prompt, enter "SET HOST SCFC," "SET HOST SCFE," or "SET HOST SCFF."

When you see the Username prompt, type in one of the three application names. You do not need a password. From there, you'll be guided by prompts and menus through your chosen function.

The following list gives the details and user benefits of each feature:

FINDWR is a tracking tool for work requests on file with Public Works. You can look up the status of any work request by 2-digit department code or by specific work request number. You can also look at detailed financial information on any work request. This information can be about one particular work request or about a list of all work requests on file. FINDWR also displays an Investment Review Board (IRB) status report and an A and B priorities report. This utility is unique because users designed the screens. A Facilities, Equipment, and Space (FES) task team decided people needed more information about work requests, equipment, and space. Reports containing this information are difficult to locate on paper and until now weren't available any other way. So the FES task team assigned representative users to identify items of interest and importance to managers and base employees. The end result is the FINDWR feature, which is easy to use and full of vital information. For help or information on FINDWR, contact Jim Baldwin of Public Works at 939-3411, ext. 351.

BLUESHEET displays articles from the NWC Announcements of the last two months. It allows you to select and

read only the material that interests you. You can scan the current issue of the Announcements or browse through the previous issues by date or by article. BLUESHEET offers help on how to submit articles to the NWC Announcements and displays special news items under a bulletin board feature called "Special Announcements." BLUESHEET is perfect for looking up information from a past issue you may have thrown away or routed on, or for reading the current issue of the Announcements while waiting for a hard copy to be routed to you. BLUESHEET was developed for Dillard Bullard by Code 27. For help or information on BLUESHEET, contact Esther Baile of the IMA Branch at 939-1251.

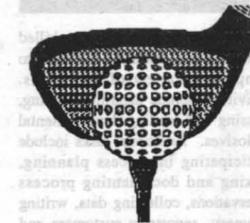
FINDNAME contains the names, NWC phone numbers, E-Mail addresses, codes, room numbers, building numbers, and building names for all NWC employees. This information is updated weekly. FINDNAME allows you to search this information using any of these data items. The procedure will prompt you for a string or pattern of characters to search for. The string does not need to be enclosed in quotes. FINDNAME offers a help screen with examples of how to use it. Users are reminded that this utility is only as accurate as the information furnished by Center personnel. If your entry is not correct, send corrections via E-Mail to SCF::PHONEDIR, call 939-6637, or send form NAVWPNCEN 2060/7 (available from Telmart) to Code 2714. If you need help or additional information on this feature, call Esther Baile at 939-1251.

FINDCHARGES: Another feature FINDCHARGES is available only to users with SCF accounts. FINDCHARGES is an on-line financial data system which provides access to all weekly NIF009A detail financial information. It was developed by the IMA Branch and

sponsored in part by Code 28. The application allows access to summary information for many levels of the customer order and job order structure. More detailed information is also available for each of the expense areas. For example, labor charges can be queried by name, performing shop, and MJO as well as other query variations. Other expenses such as stubs and contracts can also be queried by MJO and performing shop. Information can be downloaded for use with other software such as Excel or Lotus 1-2-3. To use the feature, log into SCF C, E, or F and type "FINDCHARGES" at the \$ prompt. For information or help on this feature, contact Terry Rowell of the IMA Branch at 939-2836.

FINDSPACE: One last feature, FINDSPACE, requires you to have an account on the SCF cluster and to be a registered Ingres user. This feature, designed by Vic Jensen of Code 27, was conceived and sponsored by Charlotte Bullard and Naomi Mulhern, both of Code 009. The feature allows users to perform three functions. The first function allows you to read information that is ordinarily found in the Center Space Report and combines a small amount of data from personnel. There are three options on the main menu so you can view data by special area, building, or organization. The second function allows you to print reports. The third function allows you to request updates to the space information electronically at the time the information changes. Essentially, FINDSPACE is a managerial tool that allows you to view and request updates to space information. For additional help and information on FINDSPACE, contact Charlotte Bullard in the Space Resources Office at 939-3084 or 939-2545. If you would like to become a registered Ingres user, call Curtis Wilcott, the Ingres Systems Administrator, at 939-3661.

Military, civilians challenged by golf course personnel to see who's best



During the month of August, the China Lake Golf Course would like to arrange a golf tournament. This tournament will decide, once and for all (well, maybe for at least a day or two), who are the better golfers -- military or civilians.

To enter, stop by the Golf Pro Shop and see the Pro Shop manager, Keith Holden, or call him at NWC ext. 2990.

This tournament is open to active duty military and DoD civilian employees only!

Adopt the military, pay lower green fees

To promote the game of golf to military members, the China Lake Golf Course is issuing this request -- ask a military member to play 9 or 18 holes of golf with you, and receive the military green fee rate for that day. In addition, you will

receive the satisfaction of helping another future golfer!

Support the military and your golf course, adopt a potential military golfer today! For more information, call Keith Holden at NWC ext. 2990.

Hall Lanes offers variety of bowling fun



Blue Chip Stamp Bowling

Now is your opportunity to bowl and save blue chip stamps redeemable for great prizes. Come on down to Hall Memorial Lanes every Saturday night at 6 p.m.

No Tap Bowling

Friday night and Hall Memorial Lanes are a great combination for end of the week relaxation. No Tap Bowling begins at 6:30 p.m.

Military Members Supported

During open bowl, 11 a.m. to 10 p.m., Monday through Friday,

active duty military, retired military, and their dependents, can bowl for only 50 cents per game.

While having fun bowling, don't forget the Hall Memorial Lanes Snack Bar, home of the famous China Lake Nachos, is open to satisfy your thirst and hunger.

If you haven't bowled for awhile at Hall Memorial Lanes, check out all the changes!

In addition, don't forget to check out the food at Hall Memorial Lane's snack bar.

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

Sports activities under holiday hours

On July 4, holiday hours will be in effect for the NWC Gymnasium, Community Pool and Hall Memorial Lanes.

The NWC Gymnasium will be open from 11 a.m. to 6 p.m., while the indoor pool will be open from 10:30 a.m. to 1 p.m. for lap swim and 1 to 5 p.m. for open swim.

The Community Pool will be open from 11 a.m. to 12:30 p.m. for lap swim and from 12:30 to 7 p.m. for open swim. Family Night will not be held on July 4, but

will resume on July 11.

Regular hours will be in effect on July 5.

The NWC Golf Course will be open during normal working hours on July 4.

Hall Memorial Lanes will be closed on July 4. On Friday, July 5, Hall Memorial Lanes will only be open from 5 to 10 p.m. It will resume regular hours on Saturday, July 6.

Swimming news

Classes offered

Knowing how to swim is important for children and adults alike. The Morale, Welfare & Recreation Department's Sports Division has a number of swimming classes which still have openings. Don't take chances! Register today!

The next session is from July 8-19, with another session from July 22 to August 2. From infants to advanced swimmers, the Sports Division has a class for you!

Hours for Solar Park Pool

For those who enjoy open swimming outdoors, the Solar Park Pool is open from 11 a.m. to 1 p.m., Monday through Friday.

Private, small group and adult lessons are available at the Solar Park Pool throughout the day. If interested, call NWC ext. 6542.

Family, Adult nights scheduled

Every Thursday, the entire family is invited to the Community Pool (formerly known as the O'Club Pool) to enjoy a fun-filled evening of swimming, hot dogs and hamburgers. Maximum admission cost for the entire family is \$3 for military members, \$4 for DoD employees and \$5 for all others. A hot dog dinner, chips and soda is \$2, while a hamburger or cheeseburger, chips and soda are available at a slightly higher charge.

But what if you want to get away from the children? The China Lake Community Pool has the answer! Every Friday is adult night! Enjoy an adult evening for only \$1 admission for military, \$1.50 for DoD and \$2 for all others.

Summer pool passes are valid towards Family and Adult Night admissions.



For more information about the many swimming, pool-side activities offered at the Naval Weapons Center, call the NWC Sports Branch at NWC ext. 6542.

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Have a happy & safe 4th of July
The Community Pool will be open from 11 a.m. to 12:30 p.m. for lap swim and from 12:30 to 7 p.m. for open swim. Family Night will not be held on July 4, but will resume on July 11.

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Sports



IS IT MY TURN TO BAT? -- When the NWC Varsity team confronted Edwards Air Force Base during the recent Desert to the Sea softball tournament, this young fan decided she wanted to help. The local military team placed second in Naval competition and will be participating in the Southpac softball tournament later this summer.

Photo by Peggy Shoaf

Bowling tourney planned next Saturday and Sunday

Hall Memorial Lanes is hosting a No-Tap Scratch Tournament on July 13 and 14. Choice of squad times, for both days, are 1, 3 and 6 p.m. The entry fee is only \$15



per person, which includes the prize fund. Prize payoff is 1 in 5. Don't miss out on the fun. Register today at Hall Memorial Lanes. For further information, call NWC ext. 3471.

Fishing good in Eastern Sierra

But don't forget sunblock, floppy hat and cool drinks.

Weather has been great for Eastern Sierra fishing, notes the Bishop Chamber of Commerce. But because of the hot sun, be sure to bring a good sunblock, a large brimmed hat and an ice chest filled with cold beverages.

If trolling the lakes in the Eastern Sierra, remember all fish head for cover for either protection from predators, escape from direct sunlight or feeding purposes. Deep water, docks or overhanging trees, shade, underwater rocks or cliff areas all attract fish. On windy days, watch for where the surface food is in abundance and being blown by the wind, this usually indicates a good spot to troll.

Big Pine Creek near Big Pine is still offering fast river action. Nuggets and eggs are working quite well.

Near the Bishop area, Lake Sabrina is having good shore fishing for those using nightcrawlers and salmon eggs. Water levels are up, resulting in good trolling. At the upper Owens, fish are biting crickets and baby nightcrawlers. In the Sabrina Basin, Blue Lake is open as well as the lakes by Puite Pass. Twelve to thirteen inch rainbows are being caught with flies at Long Lake.

Rock Creek Lake was just stocked with trout and

people are catching limits with green colored lures, needlefish, small Panther Martin lures and super-dupers. In the back country, try small flies, such as the black ant and Rock Creek specials. Fishing is best in the latter part of the day (4:30 to 7:30 p.m.).

With the warmer weather, fish are going deeper into Crowley Lake. Phobes, frog needlefish and chrome bikini needlefish are being used.

While Twin Lakes and Lake Mary (in the Mammoth Lakes area) are being stocked, there hasn't been any reports of any exceptional fishing prospects. So far, it has been a hit and miss proposition.

At June Lake, people are trolling deep water with rapalla lures. At Gold Lake, trout about two to two and a half pounds are being caught with power bait. At Silver Lake, try nightcrawlers, brown ghost and olive matuka flies. In the early mornings, try Reverse Creek with eggs or worms.

At Bridgeport, Kokanee Salmon are ready for trolling. Use a lead core line and red magic spoons. At Kerman Lake, there are trophy size brook trout biting at wooley boogers and small fluorescent gold rapalla lures. Lobdell Lake is great for Grayling fishing, with a sixteen size nymph a popular lure.

OTHTC hosts run/walk, potluck BBQ

Join the Over The Hill Track Club for a 5K (3.1 mile) fun run/walk and potluck BBQ on Wednesday, July 10. The fun starts at 6 p.m. in McBride Park (located on the Naval Weapons Center). Get out of the house and meet some fellow fitness enthusiasts. The whole family is welcome!!!

There is no cost. The club will provide hotdogs, drinks and all

the fixin's. People whose last names begin with A-L are asked to bring a dessert for six, while people whose last names begin with M-Z are asked to bring a salad for six.

If possible, RSVPs are requested.

For RSVP or more information, call Chip or Shari Keyes at 375-7894.



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'Safe' eclipse viewing prevents possible blindness, eye injury

During the last total solar eclipse, about 125 eye injuries were reported by people who looked directly at the sun. According to personnel in the NWC Safety Program Office, at least 40 percent of these victims were using what they considered a "safe" direct viewing method.

Gary Beckstrom, an occupational health specialist in the Safety and Security Department, has created a device which

will allow personnel on-Center to view the solar eclipse which will take place on July 11. "I just cut a circle in a piece of paper and taped it over a mirror," said Beckstrom. "I then set the mirror on a tripod and reflect the sun off of it onto a screen, or something white like a screen -- a wall, or something. This is an 'indirect' viewing method and 100% safe," he explained.

Most "home remedies" for direct view-

ing of the eclipse are very dangerous, Beckstrom noted, while strongly urging people to take advantage of the safety of "indirect" viewing.

This is the first total solar eclipse over the United States in more than 20 years. While at the Naval Weapons Center, only 60 to 75 percent of the sun will be temporarily blocked out by the moon as it passes between the earth and the sun.

Beckstrom asks people to call the Safety Office at NWC ext. 2315 before coming over to use his "safety" device on July 11. "This way, we can make sure there aren't too many people, so everyone will be able to see it," he said.



Wellness Corner



Salad Bar Dining -- How to Be Savvy, Not Sorry

Many restaurants now offer salad bars as a low-calorie, healthful addition to their regular menus. Salad bars are also popping up at many of the larger supermarket chains. In addition to low-calorie, nutritious foods, however, many offer selections that may be high in fats, sodium and calories. So the next time you dine at a salad bar, use these tips and be savvy.

Foods to choose

In general, stick with raw vegetables, a good source of nutrients. Legumes, such as kidney beans or chickpeas are also good choices since they are sources of low-calorie protein. Use lettuce, tomato, pepper and onion. Some salad bars offer broccoli or cauliflower which are high in nutrients and natural fiber. Fresh peas and beans are also sometimes available. Choose a vinegar and oil dressing, or reduced calorie dressing (often found in the condiment section) or sliced lemon to avoid fatty dressings altogether.

Foods to limit

Unfortunately, salad bars can also be fattening. It's easy to load up a plate and rack up the calories. In addition, people may tend toward salad bar foods that are high in fat or sodium. Macaroni, pasta and potato salads should be avoided because of their high fat content. Bacon bits, processed cheeses and croutons are high in sodium. It's easy to overdo high fat dressings, too.

Healthy salad bars

A healthy salad bar should be well refrigerated and should carry a food shield (also called a sneeze guard). It should have no flies and look clean and fresh.

If food is in buckets surrounded by ice, scoop from the bottom. The temperature at the top may be warmer than is safe.

Marinated foods are generally considered to be safe, principally because of their high lemon and vinegar content.

General guidelines

Try to keep food choices to a reasonable quantity. A recent study at Mississippi State University found that students averaged about 1,000 calories per tray when selecting from a salad bar, but less than 900 calories for a hot meal. Salad bar meals averaged 43 percent of calories from fat, while hot meals averaged only 40 percent. Both meals are above the American heart Association advice suggests less than 30 percent of calories should come from fat.

Savvy, not sorry

Salad bars can be a fast, convenient tasty alternative to the usual restaurant fare, but you should approach them with the preceding tips in mind. Select a variety of fresh fruits and vegetables and avoid foods with added fats (like oil or mayonnaise) or prepared dressings. When you make savvy salad bar choices, you won't be sorry.

by the Wellness Program Office

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Thank You

The staff of Desert Counseling Clinic wishes to express its appreciation to the Ridgecrest community for participating in the 40th Anniversary Open House celebration at the Clinic on Saturday, June 1, 1991.

A special thank you to the following:

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- Carriage Inn
- Chamber of Commerce Ambassadors
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- Mrs. Flo Condos, Mayor, City of Ridgecrest
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- Mr. Roe Darnell, Cerro Coso College
- DCC Volunteers
- Dixieland Band
- Andrea Ennis
- Faller Elementary School
- Farris at the Heritage
- Mr. Bill Farris
- Flowers by Len & Lisa
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- John's Pizza
- Mrs. Ann Kapernick, Ridgecrest Community Hospital
- Mr. Lee Kaylor, Chamber of Commerce
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- Means Nursery
- Midas Muffler
- News Review
- Charlotte Paulsen, Board of Directors President
- Mr. Ed Rockdale, Naval Weapons Center
- Rocketeer
- Santa Fe Grill
- Sizzler
- Stater Brothers
- Suzuki Violin Group
- Sweet Adelines
- Thrifty Drug Store
- Hon. Daniel Tobias, East Kern Municipal Court
- Vons
- Wal-Mart
- White Cross Drugs

Washington Scene

President Bush sends 4th of July salute

As we celebrate the 215th anniversary of our Nation's Independence, we recall the courage and resolve of those patriots who first pledged their lives to its defense -- from the statesmen in Philadelphia who boldly declared that "all men are created equal" to the patriots and soldiers who braved the heat of battle from Lexington and Concord to Yorktown.

was begun by these heroes. As we recall the resounding victory that you and our coalition partners achieved in the Persian Gulf earlier this year, our hearts are filled with solemn pride and with heartfelt appreciation. Your enthusiasm, your dedication and your skill are unequalled in the world.

acknowledge the sacrifices that you have made and continue to make for the sake of our country. As Commander in Chief, I salute you and wish you and your families a safe and joyous Independence Day.

By George Bush
President of the United States of America

Today, as you stand duty here at home and around the globe, all Americans gratefully

Space-based resources provided an edge

Washington, (AFIS) -- Space technology was a key ingredient in America's ability to wage the Persian Gulf war quickly, safely and successfully, said Deputy Secretary of Defense Donald Atwood.

Because of space-based assets, commanders and troops were more effective and military objectives were achieved with minimum casualties, Atwood told a U.S. Space Foundation audience in Colorado Springs, Colo.

Atwood said satellites provided a secure intratheater communications network and secure direct links used by command authorities in the United States, at Central Command in Saudi Arabia and aboard USS Blue Ridge in the gulf. Nine satellites supported more than 1,400 tactical terminals on land and at sea. Having secure communications while denying the enemy the same was a major advantage.

By furnishing accurate, real-time weather information, the Defense Meteorological Satellite Program enabled air staffs to plan the most sophisticated operation in history. The air war involved more than 100,000 sorties over Iraq and occupied Kuwait. "Accurate information about weather conditions also allowed us to determine visibility of targets, helping us prioritize targets to ensure that our laser guided precision munitions could be used most effectively," Atwood noted.

Satellites orbiting 11,000 miles overhead provided round-the-clock navigational data. In fast-moving operations over featureless terrain, units could quickly and accurately determine their positions, altitude and speeds.

The satellites' Global Positioning System enabled Navy cruise missiles to find their targets. Special operations forces and others

were able to navigate without emitting signals that the enemy could track," he said.

By the war's end, Atwood continued, more than 4,500 troops were using hand-held devices called "sluggers" -- small, lightweight GPS receivers -- to

find their way in the desert. "Even Army cooks used them to locate and serve front-line units on the move," he said.

Atwood cautioned that Iraq's aggression showed that U.S. security and interests are still at risk. While global war with the Soviets is less likely, regional

forces armed with ballistic missiles and other modern weapon systems pose threats in the future, he contended.

The threat, plus the need to reduce forces by at least 500,000 make space-based capabilities increasingly more critical to defense operations, said Atwood. Deficiencies must be corrected and new research and development must move ahead. He called attention to four areas:

• A suitable mix of nuclear forces is necessary to serve as a deterrent and as a defense of cities, troops and allies against missile strikes.

• The Milstar satellite program has been restructured to add greater tactical communications capabilities.

• DoD has approved a new satellite warning system, expect-

ed to be in full-scale development in 1994. It will provide faster, more accurate warnings to operational forces and will enhance the ability to deal with short-range missile threats.

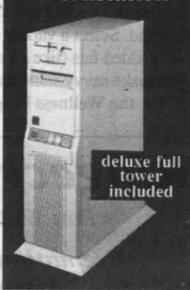
Uncertainties within the Soviet Union, regional conflicts and the worldwide spread of advance weaponry are realities for which the United States must be prepared, Atwood said. He added that U.S. capabilities shown in Operation Desert Storm resulted from wise past decisions. So, too, DoD is "determined to ensure that our armed forces and technologies they rely on remain unsurpassed," he said. "Our security tomorrow, no less than today, will depend on how well young Americans have been educated in the sciences and technologies that underpin modern defense."

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Volunteers improve lot of big horn sheep

Wildlife drinker built on Center range through multi-agency cooperation and hard work

Before dawn on Sunday, May 19, 30 volunteers headed out in their vehicles to the Naval Weapons Center's South Range, where they met up with eight other volunteers who had spent the night out at a site in the Eagle Crags Mountains. Once there, the volunteers built a wildlife drinker for the big horn sheep living on NWC range-land.

The big horn sheep drinker project was sponsored by NWC's Environmental Project Office, in conjunction with the California Department of Fish and Game, and a volunteer crew from the Desert Bighorn

Sheep Society. Since 1983, 40 Desert Bighorn have been reintroduced into the Eagle Crags, after NWC's wild horse and burro management program allowed grazing conditions to improve. Follow-up studies showed, during recent drought years, many of the bighorn moved out of the Eagle Crags area.

A plan was developed to supplement existing water supplies in the area and provide a year-round water source in the heart of the sheep habitat. The plan included finding an area where water could be

dammed during rain and somehow stored, and then fed into a drinker. After the spot for the drinker had been chosen, the work began.

Two 2,000-gallon water tanks, 600 feet of two-inch steel pipe, 150 lbs. of rebar, 200 lbs. of concrete, 250 gallons of water, pipe fittings, pipe wrenches and threaders, shovels, jack hammers, a portable generator, cement mixing equipment, lunches and drinking water for the crew were transported by helicopter as close as possible to the actual construction sites.

Volunteers either hiked the two and a

half miles up the canyon or were transported there by NWC's Search and Rescue helicopter. The crew then carried the supplies to the construction sites by forming "bucket brigade" lines to transport materials up or down the rocky canyon slopes.

When the day was over, the volunteers had completed their job. A dam of concrete and rock had been built to trap water. Pipes ran from the dam for 300 feet down into the 2,000 gallon tanks, and all that remained was for Mother Nature to fill the drinker.

What Do you Think?

The NWC Rocketeer staff and Center Command want to know what the readers of this newspaper think about the job the staff is doing. Comments on the coverage of events and people on board the Naval Weapons Center are welcome.

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

Rocketeer Feedback Forum

NAME _____

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MAIL TO: NWC CODE 0033



TAILHOOK--VX-5 photographer's mates work on a videotape about Air Test and Evaluation Squadron Five for the annual Tailhook Conference. PH1 Kraig Beck and PH3 Robert Foster were instrumental in making the tape. Photo by PH2 Auch

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MWR

Golf Course Snack Bar offers variety

Breakfast and happy hours are just two of its features

Every Friday evening, the China Lake Golf Course Snack Bar has drink specials and free snacks from 4 to 6 p.m. Celebrate the advent of the weekend and take part in the snack bar's happy hours!

Nutritionally speaking, breakfast is the most important



meal of the day. At the Golf Course Snack Bar, breakfast is also the most economical meal of the day. The snack bar serves breakfast seven days per week beginning at 6:30 a.m. Start the day off right with breakfast at the Golf Course! You don't have to golf to enjoy good food!

O'Club memberships are now on sale

Membership has its privileges! O'Club Barefoot Bar memberships are now being taken. Cost is only \$25 per year. Not only can members cash checks at other Naval installations when on travel, they will receive discounts at Barefoot Bar functions and can participate in membership activities, such as mem-

ber steak night.

Support your local Barefoot Bar and stop in at the Seafarer Club to purchase your membership card, today. Remember, Barefoot Bar patrons must meet eligibility requirements -- civilian or military paygrades equivalent to an ensign or above.

Comedy Night scheduled at Seafarer

Funny business is coming to the Naval Weapons Center. On July 18, the Seafarer Club will once again hold Comedy Night at 8 p.m.. The \$7 entrance fee will provide plenty of laughs, light snacks and a fun evening. The Los Angeles comedi-

ans will be providing *adult* humor, so no one under 18 years of age will be allowed to attend.

Tickets are available at the Seafarer Club. For more information, call NWC ext. 2581.

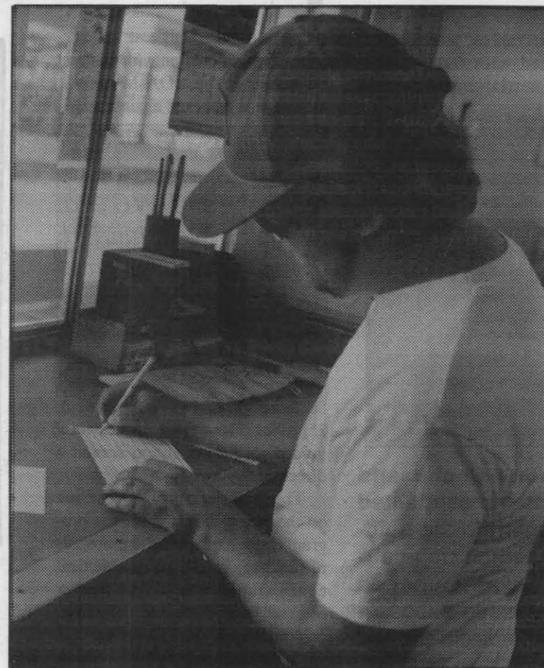
Movies provide summer entertainment

Summertime is here and children are out of school. Parents are already hearing "there's nothing to do." Solve their boredom and take advantage of the week-day matinees being held at the Naval Weapons Center Theatre. Cost is only \$1 for children 7 to 12 years of age, and \$2 for those 13 years old or older. Children six and under get in for free!



Following is the list of July's movies:

- July 2 -- The Fox and the Hound
 - July 9 -- Treasure Island
 - July 11 -- Peter Pan
 - July 16 -- Land Before Time
 - July 18 -- Davy Crockett
 - July 23 -- Milo and Otis
 - July 25 -- Oliver and Co.
 - July 30 -- Courage Mountain.
- Shows start at 2 p.m.



HAVING PEACE OF MIND -- Randy Jones knows the vehicle he wants to sell will be well protected while it is being displayed on the Lemon Lot, which is located in front of the Auto Hobby Shop off Inyokern Road. The Lemon Lot is regularly patrolled by the China Lake Police. Not only does Randy know his vehicle is protected, he knows it will sell fast. The average selling time is only seven days. Cars, trucks, boats, trailers, motorcycles, or RVs, whatever vehicle you have for sell, don't forget the Lemon Lot! For more information about displaying your vehicle on the Lemon Lot, call the Auto Hobby Shop at NWC ext. 2346.

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Above offer is for all homes sold during the month of June within Boulder Pointe Park at 620 W. Upjohn

Elegante Mobilehome Sales 620 W. Upjohn 375-6176

Community celebrates the 4th of July

"We urge everyone to attend the Fourth of July celebration being held at the Desert Empire Fairgrounds," said Darrell Johnson, the Naval Weapons Center's deputy fire chief. "The show should be especially good this year -- celebrating the successful conclusion of Operation Desert Storm." He reminded Center employees and residents all fireworks, including sparklers and

tainment called *Star Spangled With Love*.

The evening begins with the 4th of July parade, which starts at 5 p.m. on Balsam, going on Las Flores to Ridgecrest Blvd. to Ward Street. The parade ends at the Civic Center.

The fairgrounds open at 5 p.m. During the evening, the Ridgecrest Rodeo Association will sponsor a variety of games and

cal Revue will be held at Joshua Hall, with fireworks beginning at 9 p.m.

According to members of the Desert Empire Fair Board, bottles, cans or fireworks will NOT be allowed on the fairgrounds.

For those still planning their own private 4th of July celebration off-Center, caution is urged. Some simple safety rules to follow are:

•Store fireworks in a cool, dry place.

•Don't allow children to play with fireworks; sparklers, considered by many adults to be "safe" fireworks, burn at temperatures up to 1,800 degrees Fahrenheit and can easily ignite clothing.

•Supervise closely older children when they use fireworks.

•Don't allow running or horse-play around fireworks.

•Follow warning instructions on the fireworks label.

•Light fireworks outdoors in a clear area away from buildings.

•Make sure people and pets are out of range before lighting fireworks.

•Keep a bucket of water nearby for emergencies. (Deputy Fire Chief Johnson also recommends using a bucket of water to douse

the sparklers once they are used.)
•Never light fireworks in a container, especially one of glass or metal.

•Don't try to relight malfunctioning fireworks; soak them in water and throw them away.

"We want everyone to have a fun 4th of July," said Johnson, "but most of all, we want them to have a *safe* 4th of July."



Don't forget animals need special care because of heat and holiday noise

For humans, the Fourth of July is a happy holiday to celebrate

our independence. For household pets, this day is not a celebration because it can become a nightmare. Explosions and bright lights can incite panic in many animals. They tend to run blindly, which may cause them to become lost and unable to find their way back home. Some may be injured or killed in traffic while trying to escape the noise and lights of fireworks.

According to the Kern County Health Department, the best place for pets is a familiar place, in its own house or garage, with food and water. Be sure the dogs are wearing license identification tags. If the family plans on going out, leave the pet at home. Normally well-mannered animals can get excited in a strange environment and their behavior changes. Dogs may snap, bark or bite.

If an animal does get lost, check with the local animal shelter. It may be helpful to post lost and found notices throughout the community with a description of the animal. Having proper identification on the animals may also increase the chances of having them returned.

Be sensitive to your pets' needs during this Fourth of July.



the "safe and sane" type sold in Ridgecrest are **banned** from NWC.

In an effort to provide a safe, fun place to celebrate the 4th of July, the Desert Empire Fair Board, community merchants, organizations and individuals from the valley got together and planned a special night of enter-

contests. *Blue Horizon* will provide musical entertainment from 5 to 9 p.m. and all concession stands will open at 5 p.m.

Opening Ceremonies are set for 6:30 to 7 p.m., with a Blue Star Marker dedication hosted by the Vietnam Veterans and Oasis Garden Club. At 7 p.m., the 14th annual Children's Patriotic Musi-

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BOA program considered major step in air-to-air evolution

(Continued from Page 1)

demonstration end of things, where the missiles are flown and behavior

AIM-9R tracker electronics for improved target acquisition. Other developments in the BOA program

ments.

Ed Jeter, (Advanced Aerodynamic Studies) has been part of the

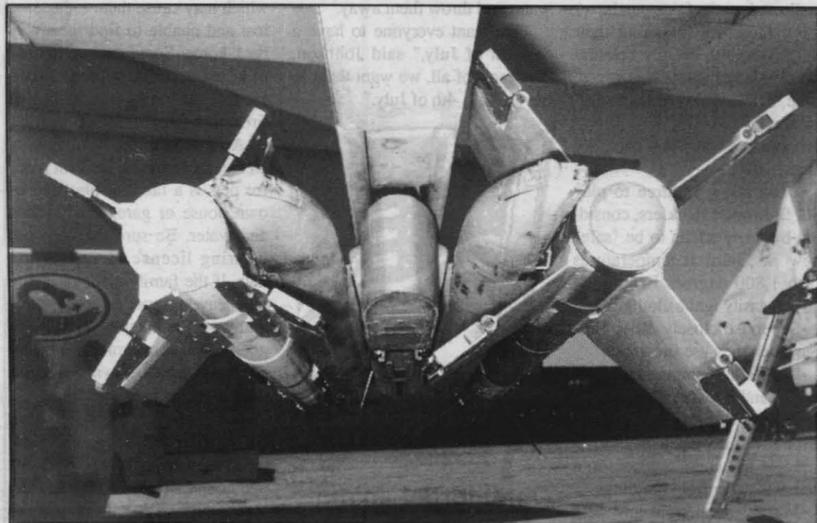
verability and greater drag reduction which enable the missile to fly further and faster.

Airframe studies by the Aerodynamics Studies group revealed sig-

they provide stability in the back portion which makes the arrow fly straight. . Now, if you continue to

Both airframes were fully instrumented with 6-degree-of-freedom inertial measurement

shot," said Jeter, "this test was performed in conjunction with General Dynamics." The BOA-M GTV-1 missile was launched against a QF-



IS IT BOA OR SIDEWINDER? -- Actually it's both! The BOA-M (left) and Sidewinder AIM-9M (right) are both canard controlled missiles which use forward fins to provide control inputs. The major difference between the two missiles are the sizes of the tails (BOA-M is much smaller). Benefits from reducing the size of the tail on the BOA-M are better maneuverability and a greater drag reduction which enable s the missile to fly further and faster.

Photo by Don Cornelius, TID

evaluated. The Advanced IR Seeker group, headed by Scott Weed, investigates different seeker concepts and how they would integrate with various airframes. The remaining three groups, Safe and Arm Device, headed by Keith Niccum, SRAAM Propulsion Rocket Motor, headed by Jim Gross and Advanced Proximity Fuze, headed

include: boost-sustain rocket motors for improved missile kinematic performance; improved electronic safety and arming device for improved producibility; an improved warhead and proximity fuze designs; and the production of numerous trade-off studies between different airframes, rocket motor thrust profiles and missile require-

BOA program since day one. His group's efforts resulted in the BOA-M airframe. "Sidewinder and BOA are both canard controlled missiles which use forward fins to provide the control inputs. The major difference between the two missiles are the sizes of the tails," explained Jeter. The major benefits from changing the tail are better maneu-

"With the second shot we actually built an autopilot and provided program inputs which commanded the missile to pull so many G's in so many directions,"

nificantly enhanced aerodynamic maneuvering capability could be achieved with a statically unstable airframe, while still achieving the reduced size and compressed carriage required for use in advanced aircraft. To make this happen, the group incorporated a pitch/yaw autopilot which stabilizes the missile during launch and fly-out. A three phased approach looking into the flight demonstration portion of BOA airframes was established to demonstrate these capabilities.

Jeter explained that the Phase I portion of the studies was to demonstrate proof-of-principal, i.e., to determine how well an aerodynamically unstable airframe could be controlled with an auto-pilot. He compares their original concept of the BOA-M airframes to that of a common arrow used to play darts or shoot at a target. "If you take a normal arrow and try to fly it without any feathers or tails, it will flip end over end. That's because it is unstable," explained Jeter, "But, if you put the feathers on the tail end,



DIRECT HIT!! -- The Naval Weapons Center and General Dynamics' Air Defense Systems conducted a guided test vehicle shot to demonstrate the guided missile capability of a compressed carriage airframe. The BOA-M GTV-1 missile was launched against a QF-86 target drone. The missile successfully guided to the target and scored a direct hit!

Photo by Don Cornelius, TID

gradually make the feathers smaller, at some point the arrow will tumble. That's basically what we're doing with the BOA airframe."

Initial flight tests of this concept consisted of taking a modified AIM-9 airframe utilizing BSU-

"The third shot tested putting a seeker on the front of the missile and aiming it at a target. . . a guided shot,"

14B canards from an AIM-9D/G/H missile and specially fabricated short span tail surfaces to complete the airframe. "Our first airfiring was referred to as a drag round. The intent was to measure the aerodynamic drag," elaborated Jeter. On August 16, 1989 BOA-M BTV-1 (Ballistic Test Vehicle) was fired as a ballistic drag measurement vehicle and on May 9, 1990 a second shot (BOA-M PTV-1, (Programmed Test Vehicle)), fired as a programmed maneuvering test vehicle (with an analog autopilot).

"With the second shot we actually built an autopilot and provided program inputs which commanded the missile to pull so many G's in so many directions," said Jeter, "This was the very first time we flew the missile in its unstable configuration where the autopilot controlled the missile's stability."

packages employed for the two test shots to obtain required test data. And both test flights were highly successful! The second shot validated the concept and gave the group confidence that they understood the aerodynamics well enough to move on to the next shot -- a guided one!

Discussions between NWC and General Dynamics, Air Defense Systems Division, concluded that a mutually-funded program could be performed utilizing a General Dynamics design of a digital AIM-9M autopilot, along with the NWC BOA-M airframe to demonstrate the guided missile capability of a compressed carriage airframe. The missile built under the joint program was called the BOA-M GTV-1 (Guided Test Vehicle (see diagram)), or alternatively as the AIM-9M CC (compressed carriage).

The guidance section used in the third shot was a modified AIM-9M WGU-4 A/B guidance section which was followed by a DSU-15A/B target detector shell that had an NWC designed inertial measurement package in place of the usual target detector electronics. The warhead was replaced by a specially fabricated, General Dynamics-designed telemetry section containing the digital autopilot.

"The third shot tested putting a seeker on the front of the missile and aiming it at a target. . . a guided

"This is the kind of program people come to NWC to work on," exclaimed Jeter, "it allows you to get your hands dirty and see the results!"

86 target drone at NWC on Sept. 25, 1990. The missile successfully guided to the target and scored a direct hit.

The group is currently working on the Phase II portion of the program. Jeter explained the emphasis of this stage is to develop a tactical configuration which will further evolve aerodynamic changes exploring additional portions of the flight envelop and produce a candidate tactical (retrofitable) configuration. What about the future? Phase III will tackle future endeavors by putting all of these efforts together into a next generation airframe; consisting of new motor, warhead, seeker, aerodynamics -- EVERYTHING!

Jeter attributes the success of the program to the small, but strong team effort of those working on the project. "We've had some of the best people on this Center working on the program. Everybody involved has pulled their weight 150%." Those working on BOA consider it in a class of its own because it allows those making the analysis to actually build and test their theories concretely. "This is the kind of program people come to NWC to work on," exclaimed Jeter, "it allows you to get your hands dirty and see the results!" It isn't too often individuals get a chance to take a program such as BOA in its infancy stage and watch it evolve full circle. "We're talking about taking concepts from the analysis stage to building the hardware and then actually testing the product," said Jeter.

Evolution is defined by Webster as "a process or gradual and continual change from a lower, simpler. . . to a higher, complex state." There is no doubt NWC's Sidewinder Program members are continuing to support the evolution of this China Lake born and bred weapon.

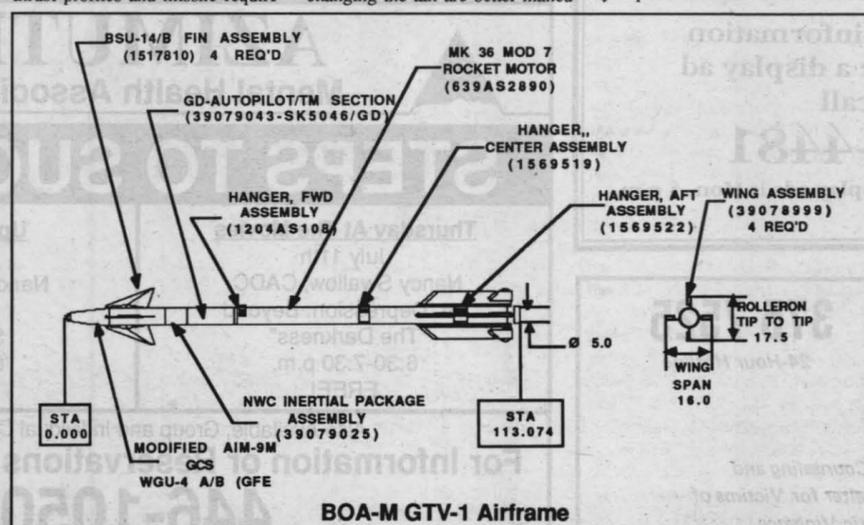


READING THE RIGHT STUFF -- As part of the preparation work for launching the BOA-M missile, Naval Weapons Center's Patrick Donohue, of the System's Engineering Division's Missiles Systems Branch (Code 3621), reads a strip chart recorder ensuring signals for currents and voltages are correct. The readings transmitted from the recorder let Donohue know if there is enough power-available to fire the BOA-M missile.

"Our first airfiring was referred to as a drag round. The intent was to measure the aerodynamic drag,"

by Ed Middlemiss, are developing the various pieces of hardware that go into the overall missile airframe.

The Center initiated BOA under the bid & proposal program and has seen tremendous results from BOA including the design and demonstration of a compressed carriage, low drag, canard controlled Sidewinder airframe (BOA-M) and seeker systems utilizing PtSi (Platinum Silicide) and InSb (Indium Antimonide) focal plane array detectors which interface with the



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