

A SMILE FOR EVERYONE--Jo Jo the clown has something to smile about. "Entertaining children and adults makes me feel good all over," he explained.

Clown seminar set for July 16 Clowning around is fun for several China Lakers

"Clowns to the left of me," a line from a popular song, may actually define the situation for many China Lakers as the art of clowning spreads. Specializing in turning frowns into smiles and tears into laughter, Ridgecrest's clowns take their hobby seriously and hone their skills at Clown seminars. The next one, scheduled for Sunday, July 16 from 1 to 5 p.m. at John's Pizza, will be hosted by "Blimpo" Jack Frank and "Potsy" Pat Frank (directors of the World Clown Association). Those interested in learning more about the craft are encouraged to attend the July seminar. A free clown show will be performed after the seminar. Some of the China Lakers

involved in this unique art form include Jim Noh, Leslie Chesney, Larry Sawyer, Don Boyle, Jerry Williams, and Tom Ingram. Perhaps the ringleader, "Jo Jo" Joe Chesney, explains the motivation for the craft when he says, "Entertaining children (and adults) makes you feel good all over." Chesney became a clown ten years ago at a Halloween party. Once he dressed the part, he became the part. His natural talents led him to investigate a special clowning skill--balloon sculpturing. This skill became tightly integrated into his character and he became 'Balloonatic, Jo Jo the Clown.' He subsequently became a certi-

fied clown of the World Clown Association. Chesney and friends have standing engagements to entertain at the annual Ridgecrest Halloween party, the Christmas parties for the Elks Lodge, Moose Lodge, American Legion, VFW and the Eagles. Chesney can make over 200 different figures from balloons. He has been known to delight passengers with plane sculptures and receive requests for the same from the cockpit. Ballooning and clowning bring magic into people's lives, according to Chesney. So, don't be surprised if "clowns to the left of me" becomes not a line from a song, but a true statement.

Blue and yellow posters expire today!

New disabled placards issued

All blue and yellow disabled person parking placards issued since June 1987 expire on June 30 this year, noted a member from the California Department of Motor Vehicles (DMV). A new parking placard may be obtained by mailing a renewal form and a \$6 check to DMV Renewal, P.O. Box 942894,

Sacramento, CA 94294-0001, or by visiting a local DMV and filling out an order form. The new placard is lime green with white letters and fits conveniently into a purse and most pockets. Renewal of the placards does not require a medical certification, however, first-time applicants must provide this certifica-

tion if their disability is not apparent. DMV officials urge disabled persons to take advantage of the convenient mail process as soon as possible.



	Max	Min	Gusts
Thurs.	101	59	26 knots
Fri.	98	66	38 knots
Sat.	92	63	22 knots
Sun.	95	62	17 knots
Mon.	97	65	22 knots
Tues.	95	70	31 knots
Wed.	92	65	32 knots

Chairman needed for scouting group

Applications for the Roadrunner (Ridgecrest) Girl Scout Neighborhood chairman are being accepted. This volunteer position is a two-year term. The purpose of the position is to guide and direct Girl Scouting in the Ridgecrest area.

Some of the principle duties involved include appointing and coordinating a Neighborhood Service Team, maintaining and building a good working relationship with leaders and resource people, and participating in the Joshua Tree Council events. Qualifications are a commitment to the purpose of Girl Scouting; willingness and time to take training and attend administrative conferences and Council meetings; ability to work with others; ability to initiate and

support decision making; and some experience and participation in community organizations and activities. Girl Scouting experience is desirable but not necessary. For applications, the complete job description or further information contact Lynn Speer at 446-3371.

Cut n' Dry is closed for holiday

Cut n' Dry, the barbershop at Bennington Plaza, will be closed for the upcoming holiday, July 3 and 4. Normal hours (Monday-Friday 8 a.m. to 5 p.m.; Saturday 8 a.m. to 2 p.m.) resume July 5.

Weather for June 15-21

Inadvertently, the weather was left out of the June 23rd issue of the *Rocketeer*. The *Rocketeer* staff apologizes for any inconvenience. The following is the weather from June 15 through June 21.

	Max	Min	Gusts
Thurs.	105	69	38 knots
Fri.	97	75	31 knots
Sat.	105	61	15 knots
Sun.	108	64	21 knots
Mon.	108	67	30 knots
Tues.	105	70	32 knots
Wed.	98	73	22 knots

NWC Rocketeer

Naval Weapons Center, China Lake, California 93555-6001

Vol. XLIV, No. 26/June 30, 1989

Seven receive top Center awards

Honors recognize outstanding achievement and creativity of employees

Recipients of the 1989 L.T.E. Thompson and William B. McLean Awards were honored at a luncheon last Friday at the NWC Officers Club. Capt. John Burt, NWC Commander, and Gerry Schiefer, Technical Director, shared the honor of presenting certificates and medals to the recipients. The L.T.E. Thompson Award was established in 1956 as the Center's highest recognition for outstanding individual achievement. This award pays tribute to the accomplishments of its first Technical Director, Dr. L.T.E. Thompson who, by his leadership, vision, and persistent efforts, gathered at this Center a strong complement of men and women. The award is presented to both military and civilian personnel for outstanding contributions to the advancement of ordnance toward the fulfillment of the mis-

sion of the Naval Weapons Center and thus the forces of the United States Navy. It may be given for single outstanding achievement or for continued excellence of performance. Past recipients of the Award include notable figures Gerry Schiefer, Bill Porter, Robert Hillyer, Jerry Reed, Burrell Hays, Capt. W.B. Haff, and Adm. Sherman Burroughs. Capt. Burt presented the first 1989 Thompson award to Matt Anderson, head, Ordnance Systems Department. A China Laker since 1970, many Outstanding Performance and Superior Achievement awards distinguish his career. Bill Porter, NWC Lab Director, submitted the award nomination letter. Anderson's was recognized "For his outstanding management and technical leader-

ship of the Ordnance Systems Department. Under his leadership, the department has established a position of excellence in energetic materials technology and in the design and development of ordnance and propulsion systems." James B. Hall was the second recipient of the Thompson award Friday. Hall arrived at the Naval Ordnance Test Station in 1966 following 14 years in civilian and Army service. He is currently working as a supervisory engineer in the Aircraft Weapons Integration Department. Hall's citation was awarded "For technical leadership in developing systems engineering discipline, and enhancing the Center's technical excellence in the aircraft weapons integration process." Thomas Hamilton, the third Thompson

Award winner, began his civil service career in 1963 at China Lake. He has served as project engineer on numerous technically challenging programs, as well as serving in a managerial capacity in the Weapons Department. His long, productive association with technology base requirements for future, advanced, long-range air-to-air missiles has resulted in significant breakthroughs for the Navy in that field. The Thompson award cited, "his exceptional energy, imagination, managerial talent and outstanding engineering expertise in the development of air-to-air missile systems." The day's fourth recipient of the L.T.E. Thompson award was Capt. John Burt, NWC commander. He was nominated by (Continued on Page 8)

Videodisc uses increase at NWC

Film & Video Projects Branch has equipment

What looks like a long-play phonograph album but produces a picture as well as sound? It's NWC's latest video recording device--the Laservision videodisc.

The Technical Information Department's Film and Video Projects Branch now has the capability to transfer videotape, 16 mm film and 35 mm slides onto videodisc.

The disc has several advantages over the more conventional videotape, including random access, easier storage, longer life and sharper image, plus it's non-magnetic and practically impervious to damage.

According to Greg Dye of the Video Projects Branch, the major benefit of the Laservision videodisc is its superior archivable qualities.

Videotape Has Limitations
To better appreciate laserdisc technology, the limitations of videotape should be reviewed. Tape produces a more than adequate image for most testing purposes. However, a sharper image is sometimes required to observe fine detail. Most of the videotape used on-Center is "industrial" quality, i.e., it does not meet broadcast specifications.

When editing or viewing videotape, a significant amount of time is

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LOOKING IT OVER--Cdr. J. C. Antonio (center), Air Test and Evaluation Squadron Five (VX-5) pilot, gives preflight instructions to RAdm. Hugh Webster, Commander, Operational Test and Evaluation Force, prior to his first ride in the F/A-18D. The admiral (left) visited VX-5 with his aid, LCdr. Scott Miller, and received NWC orientation last week. Photo by PHAN Gary Brady.

NRS needs additional volunteers to assist at China Lake office

SUMMER. Time to plan for those long awaited vacation. Maybe it is time to pack for a transfer. Now the kids are home every day because school is out. At Navy Relief, summer brings no respite. Emergencies and financial problems have no season. There is no "gone fishing" sign when the weather gets warm. Navy Relief is there to serve year round. Unfortunately, staffing is a summertime problem. Volunteers come and go. Transfers are a way of military life and volunteers are not exempt from the upheavals of a move.

Navy Relief, as always, welcomes and encourages new volunteers, but we are also looking for former volunteers to help out during the summer months. Perhaps someone would like to volunteer but can't make a long term commitment. We would be thrilled to have a former volunteer who might be able to work a few days to cover during vacation periods. Navy Relief is always there to help sailors, Marines and their dependents. Now we need your help. We can only serve the military community if we have the volunteer staff to run the offices. Short term or for a longer time, previous vol-

unteer or hearing about Navy Relief for the first time; there is a place for you--a place where your help will be greatly appreciated, by Navy Relief and more importantly, by the families we serve in their time of need. Enjoy your summer! Please call NWC ext. 2921 for more information.

Community Events

There is still time to be included in the Burroughs Class of '79' 10-year reunion. Last minute preparations are underway. Questionnaires need to be returned to include participants in the 10-year annual. The reunion will be July 22 at the Seafarer's Club (formerly the Enlisted Mess) at 7 p.m. Cost is \$25 per person. Heavy hors d'oeuvres and two drinks are included in the cost. Also, each attendee will receive a 10-year annual. Entertaining high school photos are still needed. They will be included in the annual. Anyone who has lost their invitation, or for some reason never received it, please call Pam and Blair Zurn, 312 Lincoln, Ridgecrest, CA 93555 or call 375-8846.

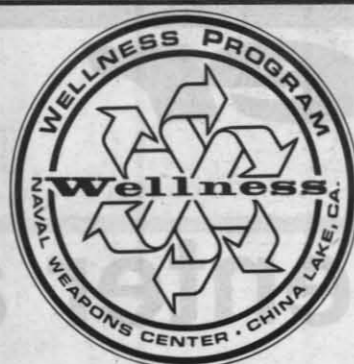
Last week: SPECIAL 65MB, 25ms or tower-case upgrade free

25MHz 80386 Supersystem full system only \$2,495

80386 25MHz zero-wait state AT supersystem: the I/O-bus clock can be set separately from CPU clock so you can run even old add-on cards, socket for an 80387 (and for 80287) math coprocessor, at boot time the BIOS is shadow copied to RAM for even higher performance, 20MHz Chips & Technologies chip set. **Full system:** in AT case with 1MB RAM, 1.2MB/360K floppy disk drive, 48MB high-performance hard drive, high-resolution monochrome monitor, serial & parallel ports, MS-DOS, now only \$2,495. **Special:** Everything above plus very high resolution VGA display and 256K VGA card (runs it all: HGC, CGA, EGA, & VGA), your choice of 1.2MB or 1.44MB second floppy drive, tower case reg. \$4,195, now only \$3,195. Made in U.S.A.

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

NWC WELLNESS CORNER



Recently, the Wellness Office obtained a pamphlet from the American Cancer Society, "FRY NOW, PAY LATER". Our unique location creates a hazardous environment for contracting skin cancer. The Wellness Office offers a brief synopsis of this brochure as a three part series in the Rocketeer. Copies of the brochure can be obtained from the Wellness Office at our new location, 212 Training Center.

selves to ultraviolet (UV) radiation, body sites that are becoming of increasing concern are the shoulders, backs and chests of men and the lower legs of women.

Who is at risk? People who have red or blond hair and sunburn easily are most prone to developing skin cancers. Although not excluded, darker skinned people are less prone to developing skin cancers. Fair people who minimize their exposure to the sun, wear protective clothing, and use strong sunscreens improve their chance of avoiding skin cancer.

The three major types of skin cancers:

- basal cell carcinoma
- squamous cell carcinoma
- malignant melanoma

and their diagnosis will be discussed in Part 2 of this three part series on skin cancer.



Warnings signs that something may be amiss, are any unusual growth or color change in the skin or any mole that changes size, shape and color. If this occurs, see your physician as soon as possible.

Ninety percent of all skin cancers occur on parts of the body that usually aren't covered by clothing. Common sites include the face, tips of the ears, hands and forearms. Because of the increasing number of sunbathers who deliberately expose them-

Volunteer musicians sought for NWC change of command

Volunteer musicians are needed by the Ridgecrest Community Band to perform during the Naval Weapons Center change of command on Monday August 7.

ments can be provided for musicians who do not have their own.

Practice sessions will be scheduled by Ricker at a later date.

Anyone interested in volunteering is asked to call Ricker at NWC ext. 3508 or, at home, 446-4040.

Summer employee joins staff of Public Affairs Office, Rocketeer

The Public Affairs Office and the Rocketeer staff are pleased to announce the addition of Lisa Blanc for the summer.

Blanc, a student at UC Santa Barbara, is majoring in Communications and "is looking forward to seeing how the theories she has learned at college are put into use at NWC."

Her summer tour will include several weeks assisting the Rocketeer staff, a stint with the Protocol Office in Michelson Lab and several weeks in the Public Affairs Office at Headquarters.

The daughter of Bill and Annie Blanc, both NWC employees, is already making a valuable contribution in her new responsibilities, noted staff employees.



LISA BLANC--the newest member of the Public Affairs Staff. Photo by PHAN Cary Brady.

CPR training is a life-saver

Did you know there are different methods in administering CPR for adults, children and babies? Did you know you could seriously harm someone if your hands were not properly located on the victim's chest while performing CPR? Did you know that the way CPR is administered today is different than just a few years ago?

Like most people, I knew CPR was something I should know, but I was always too busy to take the time out to learn it. NWC took away my lame excuse. In coordination with NWC's Safety Program Office, Cerro Coso Community College

is offering adult CPR training this summer to all Center employees. The four-hour course is offered Monday through Friday from 7:30 to 11:30 a.m. at the Training Center through August 18.

"The more people we can train



in CPR techniques," said Inspector Loveless, Fire Division, "the better off everyone will be." The more people trained, the better chance there is of someone knowing how to perform CPR being there in case of an emergency. If someone knowledgeable in CPR is in the vicinity, the victim has a better survival chance. If CPR is started immediately and performed correctly, rescue workers have a better chance of getting the victim to the hospital alive, allowing the doctors a fighting chance.

Take advantage of this life-saving course by calling NWC ext. 2315 or 2367.

Center offers pre-schooler enrichment

Plant the seed and watch it grow!

This is the invitation from Morale, Welfare & Recreation (MWR) to enroll pre-schoolers in the Enrichment Center.

A developmental program planned to provide children with an enriched pre-school experience, the goal is to supply support to the family to ensure successful experiences for the young child.

The Enrichment Program is open to all military and DOD civilian employees of the Naval Weapons Center. A health certificate is required. For further information, or for registration, please call Janet Butler at NWC ext. 2653.

NWC Rocketeer

Published by High Desert Newspapers, Inc.
739 N. China Lake Blvd.
Ridgecrest, CA 93555 (619) 375-4481

This commercial enterprise (CE) newspaper is an authorized publication. Contents of NWC ROCKETEER are not necessarily the official view of, or endorsed by, the U.S. Government, the Department of Defense or High Desert Newspapers, Inc.

The editorial content is edited, prepared and provided by the Public Affairs Office of the Naval Weapons Center, China Lake. Correspondence and material for publication should be addressed to: Editor, NWC ROCKETEER, Code 0033, Naval Weapons Center, China Lake, CA 93555-6001; telephone (619) 939-3354; E-Mail SCF:Rocketeer. Deadline for receiving stories and photos is 4 p.m. Tuesday for publication on Friday of that week.

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5 HELP WANTED

Auditions for Soloist & Organist will be held July 1 at First Church of Christian Scientist. For info & application call 375-8616.

20 RENTALS

DOWNTOWN, Newly furn., 1BR, Gar. Wtr/Trsh pd. Lndry facilities. 817 Balsam. \$380/mo. 446-4787 evs.

Near NWC BACKGATE: Great area. 2 BR gar. Newly furn. \$480/mo. Wtr/Trsh. Pd. 237-A Richmond Rd.

25 AUTOMOTIVE

446-6487 evs.
1979 Caprice Classic, 4-door, 350/V8 engine, heavy duty trans., A/C, PS, PB, good condition. \$1500. Call evs 446-2388.

'85 GMC 4x4, fully loaded. \$8500. 446-6747.

1952 PLYMOUTH CRANBROOK. Runs good. \$600. 446-7655 for info.

25 AUTOMOTIVE

ALFA GOLD 5TH WHEEL. 35ft., 1983. Very nice, has it all. Appraised value \$16,900, asking \$13,200. 377-5244 after 4pm & anytime wknds.

'88 Pontiac LeMans, 2dr., AM/FM cass. A/C, PB, xlnt. cond. Take over payments. 371-2554.

1984 Honda V65 Sabre. 11,000cc. New in '86. 11,800 miles. Shaft driven, liquid cooled, very fast, mint cond. \$2100. Maint. manual. 446-4843

1982 Chevy Cavalier, 2DR., auto., front wheel drive, rack & pinion steering. New paint. \$2900. 446-7044 evs/wknds.

40 PETS

FREE TO A LOVING HOME - Lg. cuddly Collie/Spaniel mix. Outdoor dog, mild mannered, bird dog. Very loyal to owners. Great Watchdog. 446-5256.

40 PETS

AKC DALMATION PUPPIES - Excellent family pets. Now taking deposits. 371-1848.

LOST ON BASE - WHITE CAT W/Black stripe on head. Has one green eye & one blue eye. REWARD. 446-6335 - leave message.

LONGHAIR DACHSHUND: Has a summer grooming; long hair on ears & tail. Lost near Ridgecrest Blvd. & Jacks Ranch Road. Please call 375-1071.

45 HOMES

1987 - 14x66, 2BR, 2 BA Singlewide. Excel. cond. - Priced below appraisal value; \$21,000. Many extras: carport, 8x20 front patio, storage shed, bay windows, etc. 446-6915 or 446-6804.

FOR SALE BY OWNER - 3 bedroom, 2 bath home in Heritage Village. Less than 3 years old. Premium lot facing park and mountains. Fully landscaped. \$102,000. Call 446-2388 evs.

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Personnel development opportunities

(Continued from Page 17)

spend your time and why; how to handle people who waste your time; how to overcome the start-start syndrome and incomplete work assignments; how to say no when you mean no; how to handle your clerical needs when you don't have a secretary and for procrastinators only -- new techniques for GETTING IT DONE NOW.

Presentation Methods: Audio-cassette.
Source: Training Center.
Enrollment Form: 12410/73.

Achieving Excellence (2 hours)

Open enrollment, self-study.
Scope: Some of what you'll learn is 1) creating quality -- the surprising way excellent managers handle details; 2) productivity through people -- the power of positive expectations, and how to create them daily; 3) making things happen -- why and how to promote "internal competition;" and 4) achieving personal excellence -- in pursuit of peak performance; three common threads.

Presentation Methods: VHS.
Source: Training Center.
Enrollment Form: None.

How to Discipline Employees (and Get the Results You Want) (1 hour)

Open enrollment; self-study; Training Center, Room 100. By Sourcecom.

Scope: This program will make disciplining easier by giving you strategies that are simple to use and that bring results fast. In addition, it will teach you how to avoid legal action from employees who feel you've disciplined them unfairly.

Presentation Method: Audio-cassette.

Enrollment Form: None. Simply call NWC ext. 2451 to reserve this tape.

How to Conduct Employee Performance Reviews (1 hour)

Open enrollment; self-study; Training Center, Room 100. By Sourcecom.

Scope: Imagine a management tool so powerful you only have to use it once a year to dramatically improve employees' performances. You may not have thought about employee reviews that way before, but you will after listening to this cassette. You'll gain step-by-step guidelines for conducting productive employee performance reviews you and your workers can feel good about.

Presentation Method: Audio-

cassette.

Enrollment Form: None. Simply call NWC ext. 2451 to reserve this tape.

How to Boost Productivity Now! (1 hour)

Open enrollment; self-study; Training Center, Room 100. By Sourcecom.

Scope: Step up your employees' productivity and motivate them to do their best work with these new strategies that are practical and results-oriented.

Presentation Method: Audio-cassette.

Enrollment Form: None. Simply call NWC ext. 2451 to reserve this tape.

Front-Line Interviewing/The Firing Session (1 hour)

Open enrollment; self-study; Training Center, Room 100. By Sourcecom.

Scope: Take the uncertainty out of hiring -- and the stress out of firing -- with the proven techniques you'll learn from this cassette. These are the skills top managers rely on to find "perfect fits" for jobs (even when they're rushed to fill a position) and to legally fire problem employees.

Presentation Method: Audio-cassette.

Enrollment Form: None. Simply call NWC ext. 2451 to reserve this tape.

Counseling Employees on Personal, Sensitive and Emotional Issues (1 hour)

Open enrollment; self-study; Training Center, Room 100. By Sourcecom.

Scope: Here are step-by-step guidelines to approaching and counseling employees on sensitive matters -- from a drug or alcohol problem to personal troubles. You'll also gain insight into how to respond to employees who become defensive, hostile or otherwise emotional.

Presentation Method: Audio-cassette.

Enrollment Form: None. Simply call NWC ext. 2451 to reserve this tape.

Introducing OS/2 (3 hours)

Open enrollment; self-study; Training Center, Room 100. By Dialogue Systems, Inc.

Scope: This Dialogue Systems course is a computer based training program for learning IBM operating system/2. Course topics: Multi-tasking, command editing, format, label, vol, default drive, DIR, TYPE, COPY, CAKDSK, tree, CD, Path, xcopy,

backup and restore. This course is available in disk sizes 5 1/4" and 3 1/2" -- please specify.

Presentation Method: CAI/IBM or compatible.

Enrollment Form: None. Simply call NWC ext. 2451 to reserve this tape.

How to Turn an Interview Into a Job (1 hour)

Open enrollment; self-study; Training Center, Room 100. By Sourcecom.

Scope: Jeff Allen shares a straight forward and practical approach to job hunting. Topics include: 1) Getting your foot in the door -- how to write your resume so it gets read; 2) Where the jobs are -- your four top sources. Five types of classified ads and how to read them. The Job Intelligence Network and how to use it; 3) First follow through phone call -- two tips that will get you seen; 4) Scheduling tactics that let you keep your sanity; 5) Twelve steps to the successful initial interview; 6) Agreement vs. alienation -- crucial strategies to create rapport; 7) The power of buzz words and inside information; 8) Handling the interrogation interview -- easy answers to the hardest questions; 9) The second interview -- creating an irresistible impression; and 10) Clinching the deal.

Presentation Method: Audio-cassette.

Image and Self-Projection (For Today's Women in Business, Government and the Professions) (4 hours)

Open enrollment, self-study. By Julie White.

Scope: Topics are: *Stand Up to Conflict* -- confrontations are a normal part of business life. With this program, you'll learn when to confront and how to handle confrontations in a way that maintains, and even increases, your power. *Project a Stronger Image* -

Enrollment Form: None. Simply call NWC ext. 2451 to reserve this tape.

Getting to Yes (How to Negotiate Agreement Without Giving In) (1 hour)

Open enrollment; self-study; Training Center, Room 100. By Sourcecom.

Scope: Get what you deserve -- without getting mean in this 52-minute audiocassette from Sourcecom. Most of us see the bargaining as a contest -- with only winners and losers. Based on the best-selling book by Roger Fisher and William Ury, this program demonstrates proven negotiation strategies with sample dialogues from real-life situations. Drawn from years of research and Fisher's own negotiating experience in the Iranian crisis and other confrontational situations.

Getting to Yes offers a common sense approach to successful bargaining. You'll learn to separate people from the problem; focus on underlying concerns, not stated demands; create options satisfying both parties; use fair procedures and fair standards; develop

a "walkway" alternative if negotiation fails. Problem solving techniques include Negotiation Jujitsu -- when one side attacks you or your position don't respond in kind; Third Party Mediators -- a mediator can sometimes propose better solutions since he or she is more objective; One-Text Procedure -- a third party begins by asking each side about their underlying concerns, then drafts a proposal. The text is revised over and over, then the third party asks them to make a decision.

Presentation Method: Audio-cassette.

Enrollment Form: None. Simply call NWC ext. 2451 to reserve this tape.

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Enrollment Form: None. Simply call NWC ext. 2451 to reserve this tape.

Refresher training needed for people using HILTI tools

Beginning July 10, classes on HILTI tools will be given at the Safety Program Office (Building 00465).

HILTI (powder-actuated) tool operators are required to receive periodic refresher training in order to maintain their tool

license. The Safety Program Office (Code 2405) will be providing this training. Tool licenses are issued for three years. Please check your tool license for its expiration date.

BSEE cuts needed due to enrollment

Due to budget cuts and low enrollments, the on-Center Bachelor of Science (BSEE) degree program in Electrical Engineering through California State University, Northridge (CSUN) is being discontinued.

The associate dean of the School of Engineering and the electrical engineering advisor at CSUN will be available at 10:30

-- some women exude authority and charisma the minute they walk in a room. *Image & Self-Projection* will show you how to project powerful messages and create an aura of self-assurance. *Communicate With Impact* -- your success depends on two factors: 1) what you know, and 2) how well you put it across. The blunt fact is that the second factor often matters more than the first. *Build Your Personal Power* -- like most women, you were probably raised to support power, not exercise it. Now you can make up for lost time. The skills you learn with this tape will help you project power positively and comfortably. *Work Effectively With Men* -- now you can learn how to overcome, and help men overcome, the barriers to male/female collaboration, plus some ideas for dealing with women who resist your power. *Be Seen, Get Known* -- It's a simple law of business: if you want to get ahead, you have to make people notice you. Learn how to maximize the recognition you get for the work you do (and do not come across as pushy).

Presentation Methods: Audio-cassette.

Enrollment Form: 12410/73.

Major Bain saluted for effort with AV-8B Harrier projects

On Monday, June 26, Major William F. Bain, USMC, received the Navy Commendation Medal for superior service as Vertical Short Take-Off and Landing Branch Head and Operations Test Director, Air Test and Evaluation Squadron Five from May 1985-Sept. 1988.

Presented by Col. Barry Banks, Commanding Officer, NWC Marine Aviation Detach-

ment, the medal honors Bain's highly successful completion of all Chief of Naval Operations assigned AV-8B Harrier projects.

As supervisor of test operations, Bain commanded the testing of the Laser Maverick missile and the AV-8B Night Attack aircraft. Bain also upgraded much software and managed several electronic warfare and weapons projects. In addition, Bain led

three other AV-8B operation test directors working on nine projects total.

Bain will be leaving the Center, heading to another desert locale. Today Maj. Bain leaves to join the Marine Corps Air Station, Yuma Arizona, meeting up with the 3rd Marine Aircraft Wing. Joining him in the move are wife, Caryn and daughter Kelli.



HARD WORK HONORED--Major W.F. Bain, USMC, recently received a Navy Commendation Medal for service with VX-5. Above, Bain is congratulated by his wife, Caryn, and (right) Col. B.V. Banks, head of the Marine Aviation Detachment.

Cinemas offer military prices in Ridgecrest

Reduced fees for active duty military personnel and their dependents, and members in a reserve status, are now available at Ridgecrest Cinemas. People wanting to take advantage of this special price must have their Military I.D. card and show it at the time of ticket purchase.

For only \$3, active duty military and their dependents can enjoy some of the finest movies



The Skipper Sez...

QUESTION

My question is in regards to the bathrooms that we are having installed in the building. This is a remodeling effort that has been going on for the last six months or so. Apparently there has been no plans for heating or air conditioning in these bathrooms. I understand that there are a number of bathrooms being installed in this contract around the Center, and there is no heating or air conditioning in any of them. I wonder if this is a new Center policy to save energy or what the rationale might be. It doesn't seem to be a very healthy or good for morale situation to me. Thank you very much.

ANSWER

The DOD Construction Criteria Manual specifies that restrooms are not to be air conditioned. The principle reasons being (1) reduce energy consumption and (2) prevent the spreading of odors. Air is exhausted from restrooms and normally replaced with air drawn from corridors of the building, which usually provides adequate temperature control. However, the buildings you referred to have restrooms with exterior entry, which precludes the use of conditioned air for comfort. The necessary heating/cooling would have to be provided in another manner. A study is underway to determine how we can best provide heating/cooling in restrooms of Buildings 02335 thru 02338.

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

NEX white sale now underway

Summer is the time to great buys on items for the home during the Naval Weapons Center's Navy Exchange (NEX) Home and White Sale from July 12-23.

A wide selection of comforters, sheets and bedspreads in matching sets, pillows and pillow cases, blankets, crib sets, towels, bath accessories, and tablecloths will be featured at great savings.

Included in the fabulous selection are Wamsutta, Bibb, J.P. Stevens, Ostow and Jacobs, and West Point Pepperell.

Decorating the home was never easier with special values

on ceramic lamp sets, accent rugs, floor pillows, and clocks in charming country designs. Also at the NEX, look for the Singer "Debutante" free-arm sewing machine at 57 off manufacturer's suggested retail (M.S.R.) and the Proctor-Silex steam/spray/dry iron with self-cleaning Silver-Stone. The easy-to-assemble furniture pieces have a rich pine finish and solid oak molding.

Don't miss out on exciting values for the home at the Navy Exchange! Pick up a Home and White Sale circular today.

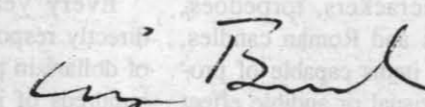
Fourth of July Message from the President

This Fourth of July, Barbara and I send a special message of greetings and gratitude to our men and women in uniform around the globe. Exactly 213 years ago this week, General George Washington asked his troops to do more than merely fight for political independence; he urged them to show the whole world that "a free man, contending for liberty," is "superior to every shallow mercenary on earth." Those early American fighting men did show it, at Valley Forge, at Yorktown, and on every battlefield during the Revolutionary War. The world took notice then and it has remembered ever since.

Today, as Americans celebrate the proud heritage made possible by those patriots, we reflect with gratitude upon the continuing sacrifices of our military personnel--sacrifices that include separation from loved ones, long days of service at sea, or standing watch in a foreign land. The liberty we hail today, you defend every day. The rights we enjoy as Americans, we could not enjoy were it not for you who willingly bear the sword to assure peace.

On the 213th birthday of our country--so blessed with peace and freedom--I urge all Americans to join me in expressing our gratitude, publicly and joyfully, to you, the guardians of our Independence, the men and women of the Armed Forces of the United States.

Happy Fourth of July!


George Bush
President

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DEERS enrollment critical for dependent coverages

Most people know by now that they must be listed in the DEERS computer data banks to have their CHAMPUS claims processed.

But many active-duty family members still don't realize that they must also be enrolled in DEERS to get claims paid under the uniformed services' Active Duty Dependents Dental Plan.

DEERS is the Defense Enrollment eligibility Reporting System, a computerized listing of active-duty, deceased and retired service members and their CHAMPUS-eligible family members, and certain former military spouses.

Information on all persons eligible for the dental plan who are listed in DEERS is provided to DDP*Delta, the contractor that administers the Active Duty Dependents Dental Plan. Delta uses this information to determine eligibility for claims payment.

If the dependents of an active-duty service member are not listed in DEERS, their claims will be denied.

For information about DEERS enrollment, you may also contact the DEERS Telephone Center, from 6 a.m. to 3:30 p.m. Pacific Time, Monday through Friday at this toll-free number: 1-800-334-4162.



"Eyes Of Faith"

A story is told about the father of one of America's great poets, Emily Dickinson. One evening at the dinner hour, the fire-bell started ringing madly. All the people in the little town came running out, clutching their napkins and their silverware, looking for the fire. There stood Emily Dickinson's father. He had just seen a glorious sunset and didn't want the people to miss it, so he started ringing the fire-bell furiously in order to get them out before it was too late. Most of the people went back to their homes shaking their heads and talking about that "weird Dickinson man, nuttier than a fruitcake."

Most of us don't get that excited over a glorious sunset. We see it, and we get a little inspiration for a moment or two. When we can look at it through eyes of faith, it is cause for more than a little inspiration. The whole world around us is throbbing with the life of God, not only a beautiful sunset, the



mountains, the storm at sea, and the deep-blue sky, but also the wood, the steel, the dirt, the grass, the sand, and the sweat and grime, all the common things we see every day. Scientists today tell us that no matter how far they are able to probe out into space they run into "energy" that they can neither predict nor plot. Pause from time-to-time in the days and weeks ahead, and feel the life that God has created for you. As you listen to the sounds, watch the movement, and smell the fragrance, and taste the flavor, and feel the growth, submit to the awe, the majesty, and the mystery of it all. Then you will see the pieces beginning to fit together. Then you will see a picture emerge, clearly indicating that the key to life's puzzle is faith in the Creator - a gracious God.

By Lt G.L. Goodman, CHC, USNR
Assistant Command Chaplain

Tel-a-story available in valley

With school out, children are often bored. While the older ones often complain, the younger ones often ask mom, brother or sister to read to them. Take a break! A free service provided by the Child Evangelism Fellowship (home-based in Warrenton, Mis-

souri) allows children to listen to a different Christian story each week.

Each story lasts approximately two to three minutes. According to Lt. G.E. Williams, assistant airfield chaplain, the stories are

basically for children six to 12 years old. "Sometimes there is a pause before the story starts," said the chaplain, "so be sure to allow time for the recording to begin."

To reach "tel-a-story," simply call 375-5381.

NWC LIAISON- The staff of Center's Washington, DC liaison office were honored recently with special act awards from NWC's Technical Information Department. Esther Robson (left) and Holly Wigginton, were given the awards for their outstanding support efforts.

Photo by Eleanor Johnson



Holiday fireworks prohibited at NWC

The Fire Division wants to remind everyone that the use of fireworks is prohibited in all parts of the Center. Fireworks include blank cartridges, toy cannons, firecrackers, torpedoes, skyrocket and Roman candles, or similar items capable of producing a visual or audible effect by combustion or detonation.

This prohibition does not include toy pistols and similar

devices that use a paper cap, or saluting cannons or blank cartridges used by the military. Hand-held sparklers are permitted under adult supervision.

Every year, fireworks are directly responsible for millions of dollars in property losses, and hundreds of injuries and deaths. Please leave fireworks to authorized, licensed professionals.

The NAVWPNCEN Fire Divi-

sion wants everyone to enjoy a safe 4th of July holiday.



Personnel news

Secretarial opportunities

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

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

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

No. 31-043, Secretary (Typing), DG-318-2, Code 3107A - This position provides secretarial and administrative support to the Deputy of Engineering in the F/A-18 Program Office and is located in the Weapons Systems Support Activity. The incumbent is responsible for all secretarial duties including numerous travel orders and constant preparation of technical briefs. Must have the ability to communicate effectively. Skill on the Macintosh computer is desired. Previous applicants need not apply.

No. 38-004, Secretary (Typing), DG-318-2, Code 381 - Incumbent serves as Division Secretary providing clerical and administrative support to the Division Head of the Physics Division and other Division/Department staff. Incumbent participates as an active member of the Physics Division management team. Candidates must possess knowledge of Naval correspondence, domestic and foreign travel, personnel actions and procurement as well as general secretarial and administrative procedures. Candidates must

demonstrate positive interpersonal skills in interaction with personnel at all levels. Experience using the Macintosh II and Microsoft Word is desirable. Promotion potential to the DG-3, but not guaranteed.

No. 39-061, Secretary (Typing), DG-318-1/2, Code 3924 - The incumbent provides clerical support to the Advanced Concepts Branch, Concept Development Division, Intercept Weapons Department. Experience with the Zenith PC desired but not necessary. Promotion potential DG-2. Status eligibles may apply.

No. 62-037, Secretary (Typing), DG-318-1/2, Code 6254 - This position is located in the Range Support Branch, Data Systems Division, Range Department. The incumbent provides secretarial and administrative support to the branch. Incumbent must be able to obtain and maintain a secret clearance. Word processing experience is highly desirable. Experience with the Macintosh computer is preferred. Promotion potential to DG-2. Status eligibles may apply. Previous applicants need not reapply.

Desert environment class given to youth

The fauna, flora, topography and geology of the Northern Mojave is the topic of a Summer Youth College class being offered by Cerro Coso Community College. Students will learn about safe travel and first aid within the desert environment.

Chris Ostermann will instruct "The Living Desert" course for youths age 12 to 16, weekdays from 8 to 11 a.m. from July 17 through 21 in Room 330, the College's Biology Lab. Ostermann is currently completing graduate work in biology at C.S.U. Long Beach. He has taught Biology and Physics in Micronesia and is presently teaching at Murray Junior High and the Sierra Sands Adult School. Ostermann is an active member of China Lake Mountain Rescue, an avid pho-

tographer and extensive traveler. A \$40 lab fee is required for this course at the time of registration. Registration may be completed by mail by completing the registration form located in the Summer Youth College class schedule and sending it to the college along with a check for any class and lab fees. Registering in person is also welcome at the Admissions and Records Office, Monday through Thursday, from 9 a.m. to 4:30 p.m. Cerro Coso Community College has scheduled a variety of classes for youths this summer. Join us for a summer of fun in the sun.

For more information on Summer Youth College classes and registration call the college at 375-5001.



Personnel development opportunities

Official Naval Correspondence (8 hours)

Aug. 18, 0800-1600, Training Center. By LaNelle Thompson.

Intended Audience: Clerical/Administrative.

Scope: A class for all Center personnel who type, write or approve naval correspondence. It is a detailed overview of SECNAVINST 5216.5C and NAVWPNCEN 5216.8, which review standards for correspondence preparation, formatting and paperwork management.

Note: Please bring your copy of SECNAVINST 5216.5C (Correspondence Manual).

Deadline: Aug. 3.
Basic Naval Writing for Beginners (8 hours)

Aug. 17, 0800-1600, Training Center. By LaNelle Thompson.

Scope: SECNAVINST 5216.5C sets new writing standards that are important to anyone who writes or reviews the writing of others. The class instructor will review those standards, i.e., the use of active versus passive verbs, personal pronouns, short sentences, etc. A workbook (OPNAV 09B-P1-84) with exercises and answers that reinforce the principles of better

naval writing will be used in class.

Deadline: Aug. 4.
Self-study courses

Stress Management for Professionals (How to Feel Better and Perform Better on the Job) (4 hours)

Open enrollment, self-study.

Scope: Here are the highlights of what you'll gain in this program: The six elements of less-stress living and how to put them to work in your life; what you don't know that hurts you; how to handle the stress of conflict and difficult people; how to bring balance into your life and the concrete techniques of stress management. Experiencing this program is not like being "lectured to." It's more like having your best friend giving you great advice. Advice that's as entertaining as it is insightful.

Presentation Methods: Audio-cassette.

Source: Training Center. Enrollment Form: 12410/73.

How to Listen Powerfully (4 hours)

Open enrollment, self-study.

Scope: How to Listen Powerfully is designed specifically for

people in business. This tape program is packed with tools and techniques you can use immediately -- when facing conflict, participating in meetings, giving and getting instructions, making agreements -- all through the business day. You'll learn how to communicate clearly, with fewer mistakes; use the telephone to its greatest advantage; increase your memory for facts and names; listen in a way that builds trust and cooperation; and perceive the whole message and the real meaning; plus many more strategies for increasing your listening power.

Presentation Methods: Audio-cassette.

Source: Training Center. Enrollment Form: 12410/73.

Getting Things Done (6 hours)

Open enrollment, self-study. By Ed Bliss.

Scope: This is the definitive course on personal productivity, covering topics from productivity "habits," to concentration and creativity, to overcoming interruptions and to delegation. In this course, you should learn the psychology behind where you really

(Continued on Page 18)

Leave hours requested

Employees indicated below have been approved to become leave recipients under the Leave Transfer Program. These employees have exhausted annual and/or sick leave because of personal emergencies and will be in a non-pay status for at least ten days. Employees who wish to donate annual leave to the employee should fill out the form at the end of this column, clip it out and send it to Code 221. For more information about this program, call NWC ext. 2018.

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

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

Melody R. Reymond, Budget Analyst, Code 2836 -- who underwent emergency surgery and was

unable to work from mid-February until late March is indebted for leave.

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

Robert Donsbach, Specification Writer/Editor, Code 3656 -- suffered a heart attack on May 4, 1988 and will be unable to

return to work until the end of July.

John Hill, Engineering Data Management Specialist, Code 3654 -- has intestinal problems, including internal bleeding, which have led to anemia and long term absence from work.

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

Leave Donation Form

Complete and send to Code 221

From: _____
Code: _____
I wish to donate _____ hours of my annual leave to: _____
I have attached a copy of my last leave and earning statement.
Signature _____
Date _____

Divine Services

Protestant

- Sunday Worship Service, Main Chapel 10:30 a.m.
- Sunday School, Annexes 1, 2 & 4 9:00 a.m.
- Bible Study (East Wing), Wednesday 11:30 a.m. (September thru June)
- Men's Prayer Breakfast, East Wing, Thursday 6:15 a.m.
- Officers' Christian Fellowship/Christian Military Fellowships, Annex 4, Thursday 7:00 p.m.

Islamic

- Jumaa Prayer (Friday in Annex 4) 1:00 p.m.

Roman Catholic

- Sunday Mass, Main Chapel 9:00 a.m.
- Daily Mass, Small Chapel 11:35 a.m.
- Confession (Sunday), Command Chaplain's Office 8:15-8:45 a.m.
- Confession By Appointment Anytime
- Religious Education Classes (Sunday) (September thru May), Annexes 1, 2 & 4 10:30 a.m.

Jewish

- Weekly Services (Friday - East Wing) 7:30 p.m.
- Adult Hebrew Lessons (Saturday in Annex 4) 9:00-10:00 a.m.
- Sabbath School (Saturday in Annex 4) 1:00-4:00 p.m.

Chaplain S. A. Casimano, LCDR, CHC, USNR
Chaplain G. L. Goodman, LT, CHC, USNR
Chaplain G. E. Williams, LT, CHC, USNR
Hearing Impaired Equipment, Nursery Available
Phone NWC ext. 3506, 2773, 2873

Personnel news and notes

(Continued from Page 15)

China Lake, CA 93555. The incumbent operates, maintains and provides limited design and development of highly specialized optical and electronic devices, including laser equipment, to gather test data for NAVWPNCEN Ranges; performs work using specialized optical, video, film and tracking equipment and improvises new methods and techniques for using such equipment. Assists in planning and conducting field tests. Typical equipment used within the branch, but not restricted to, are: various tracking instruments, such as Cine Sextants, Cine Theodolites, Contraves, Askania (MCMs), M-45s, medium and high speed cameras, specialized shuttered video cameras, recorders and other related equipment. **Job Relevant Criteria:** Knowledge of photo-optical and electro-optical systems and their uses for gathering field test data; ability to support a specific project/program and assist project engineers in accomplishing their goals; knowledge of current field instrumentation technology, data links, laser tracking, range operations, modern weapons systems, and test and evaluation operations. Promotion potential to DT-3, but not guaranteed.

No. 62-051, Photographer, DT-1060-2/3, Code 62311. This position is an Optical Instrumentation Technician in the Tracking Section of the Electro-Optical Branch, Instrumentation Division, Range Department. The incumbent operates, maintains and provides limited design and development of highly specialized optical and electronic devices, including Laser equipment, to gather test data for NAVWPNCEN Ranges; performs work using specialized optical, video, film and tracking equipment and improvises new methods and techniques for using such equipment. Assists in planning and conducting field tests. Typical equipment used within the Branch, but not restricted to, are: various tracking instruments, such as Cine Sextants, Cine Theodolites, Contraves, Askania (MCMs), M-45s, medium and high speed cameras, specialized shuttered video cameras, recorders and other related equipment. **Job Relevant Criteria:** Knowledge of photo-optical and electro-optical systems and their uses for gathering field test data; ability to support a specific project/program and assist project engineers in accomplishing their goals; knowledge of current field instrumentation technology, data links, laser tracking, range operations, modern weapons systems, and test and evaluation operations. Promotion potential to DT-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. 62-050, Electronics Technician, DT-856-2/3, Code 62221. This position is located in the Supersonic Naval Ordnance Research Track (SNORT) Operations Branch of the Range Department. Duties are performed in support of the Instrumentation Section in meeting all instrumentation needs of the track tests. These duties include preparing instrumentation systems for track use under direction of and coordination with Code 62221 engineering staff and track customers; operation of local equipment for those systems or transducers requiring calibration, and assistance in preparation of calibration documentation; working with members of the section team and ground station in establishing adequate telemetry and instrumentation systems for sledborne and trackside use. **Job Relevant Criteria:** Knowledge of test instrumentation equipment/systems; knowledge of current soldering techniques; ability to interpret electronics block schematic diagrams/mechanical drawings; ability to use electronic test equipment and to maintain

No. 64-040, Computer Specialist, DS-334-1/2, Code 64303. This position is located in the Tactical Air Range Integration Facility (TARIF) of the Radar and Threat Technology Division of the Aerosystems Department. The incumbent will be the Computer Facilities Manager to the TARIF SSA and Range Electronic Warfare System (REWS) SSA. The SSA systems includes eight Concurrent CPUs, two DEC PDP-11's and assorted peripherals. The incumbent's duties will include being the computer operator, loading discs and magnetic tapes, handling trouble chits, responsible for creating and maintaining a computer system library and be responsible for the ADP accreditation for the SSA equipment. **Job Relevant Criteria:** Knowledge of Concurrent and DEC computer systems including both hardware and software; ability to communicate orally; ability to communicate in writing; ability to interface with contractors, other and government facility personnel. Must be able to obtain and hold a secret clearance. Promotional potential to DS-2 if filled at the DS-1 level but not guaranteed.

No. 31-056, Interdisciplinary, Electronics Engineer, Physicist, Computer Scientist, Mathematician DP-855/1310/1550/1520-2/3, Code 3159. This position is located in the Systems Engineering Branch, Targeting and Fire Control Division, Aircraft Weapons Integration Department. Incumbent will monitor, evaluate and report on contractor development of new software for Targeting, Navigation and IRST FLIR systems. Duties would include travel to the contractor location to review software design and documentation and to observe system testing. Duties would also include providing input into the development of lab facilities at NWC to support these FLIR systems. Understanding of the development and testing of embedded real-time software is required (FLIR systems preferred). Understanding of aircraft avionics environment, digital signal processing, Ada, Mil-Std-1705A and Mil-Std-2167 are preferred but not required. To apply, please send an updated SF-171 to Dale Billings, Code 3159, NWC Ext. 3588.

No. 31-057, Interdisciplinary, Elec-

tronics Engineer, Physicist, Computer Scientist, Mathematician DP-855/1310/1550/1520-2/3, Code 3159. This position is located in the Systems Engineering Branch, Targeting and Fire Control Division, Aircraft Weapons Integration Department. Incumbent will perform software engineering activity pertaining to the development of tactical airborne electro-optical systems. Responsibilities also include analysis, design, development and testing of a real-time image processing capability in support of technology demonstrations. Strong background in digital hardware, computer interfaces, assembly language programming is required and familiarity with 68020 microprocessor is desirable. Knowledge of image processing software and/or algorithm development related to target tracking, detection or recognition is also desirable. Some foreign travel may be required. To apply, please send an updated SF-171 to Dale Billings, Code 3159, NWC Ext. 3588.

No. 31-058, Interdisciplinary, Mechanical, Electronics, Aerospace Engineer, Physicist DP-830/855/861/1310-3, Code 3159. This position is located in the Systems Engineering Branch, Targeting and Fire Control Division, Aircraft Weapons Integration Department. Incumbent will perform systems analysis and systems engineering activity pertaining to the development of tactical airborne electro-optical systems. Responsibilities also include promoting and supporting the transition of applicable targeting technology into both existing and newly emerging systems. A strong background in FLIR systems and related signal/image processing for targeting and fire control is desirable. Previous experience supporting full scale development projects, including analysis of system performance, design, integration, test and evaluation is also desirable. Requires a willingness to perform in a role of technical leadership and to interface effectively with management, sponsor and contractor personnel. Some foreign travel may be required. To apply, please send an updated SF-171 to Dale Billings, Code 3159, NWC Ext. 3588.

No. 39-062, Interdisciplinary (Electronics/Industrial Engineer/Physicist), DP-855/896/1310-2/3, Code 3934. This position is located in the Standard Missile Fuze Branch 2, Fuze Sensor Systems Division, Intercept Weapons Department. The Branch's responsibilities are the design and testing of standard missile proximity fuzes in support of engineering development, transition to production and production engineering improvements. The Branch is currently involved in the qualification of a second source developer and producer of Standard Missile fuzes. The incumbent will participate as a team member in this second source effort, working with senior fuze engineers, transferring the design, alignment techniques and test experience to the new fuze source. The incumbent will also participate in engineering design, development of components and circuit designs in support of advanced fuze systems. Work areas are broad-based and best suited for engineers interested in broad engineering experiences. Areas of responsibilities include: Antennas; microwave; IF detection circuitry; analog and digital processing circuitry; power supplies; and test equipment correlation and documentation. To apply, send a current SF-171 to Walter Martin, Code 3934, NWC, Ext. 2769/6611.

No. 39-063, Interdisciplinary (Computer Scientist/Physicist/Electronic Engineer), DP-1550/1310/855-2/3, Code

3944. This position is located in the Air to Air Guidance Branch, Code 3944, of the Intercept Weapons Department. This branch provides the necessary support for the design and development of guidance and control units such as the sidewinder AIM-9R GCS. The incumbent will have the opportunity to work as a team member to develop code for embedded missile computers and to do hands on checkout evaluation of the code operating real time with the hardware. Applicant should have an interest in developing leadership skills for becoming task leader. Incumbent enters out analysis using VAX systems and emulators for CPU. To apply, send a current SF 171 to Gerald Jones, Code 3944, NWC, Ext. 1533.

No. 39-064, Interdisciplinary (Electronics/Industrial Engineer/Physicist), 855/896/1310-2/3, Code 3934. This position is located in the Standard Missile Fuze Branch 2, Fuze Sensor Systems Division, Intercept Weapons Department. The Branch's responsibilities are the design and testing of Standard Missile proximity fuzes in support of engineering development, transition to production and production engineering improvements. The incumbent will participate as a team member in the testing and evaluation of engineering designs, and circuits used in standard missile advanced fuze systems. Work areas are broad based and best suited for engineers interested in broad engineering experiences. Areas of responsibilities include: Engineering testing and evaluation (and the redesign if appropriate) of analog and digital processing circuitry, power supplies and test equipment. To apply, send a current SF-171 to Walter Martin, Code 3934, NWC, Ext. 2769/6611.

No. 62-020, Electronics Engineer, DP-855-2/3, Code 62503. This position is that of an electronics engineer in the Communications Engineering Office, Data Systems Division, Range Department. The Communications Engineering Office is responsible for conceptual systems design and installation design of secure communications systems within the Range Department. The Communications Engineering Office develops systems engineering plans, installation design plans, equipment procurement packages and oversees implementation of secured communications/instrumentation systems. These systems include cryptographic equipment, digital multiplexing systems, microwave systems and lightwave (fiber optic) systems. Responsibilities include implementing TEMPEST engineering criteria as a part of the system and installation design. Technical direction of installation personnel during system implemen-

tion is required. The incumbent will be responsible for developing equipment specifications and preparing requests for materials and services. The incumbent shall be capable of performing technical writing tasks in support of preparing system engineering and installation design plans and preparing equipment specifications. To apply, send current SF-171 to O. J. Dvore, Code 62503, NWC ext. 6717. Status eligibles may apply. Previous applicants need not reapply.

No. 62-038, Interdisciplinary (General Engineer/Electronics Engineer/Mechanical Engineer/Aerospace Engineer/Physicist/Mathematician/Computer Scientist), DP-801/855/830/861/1310/1520/1550-3, Code 62C2. Incumbent serves as the focal point for program offices and other sponsors for test work on the NAVWPNCEN, SNORT ranges. Responsibilities include test planning, fiscal management, test coordination, analysis and documentation of assigned projects. The incumbent serves as the primary contact with sponsors, technical and administrative associates, center managers, contractors and national associates. Sponsors are from both on-Center and off-Center and includes SPAWARS, Marines, Air Force, Army, private industry and foreign military. Little or no travel is required. Good balance between desk work and field work. Incumbent must be able to communicate effectively with all levels of Center managers; to work effectively with people. To apply send an updated SF-171 to George Ostermann, Code 62C2, NWC ext. 6808. Previous applicants need not reapply.

No. 62-049, Interdisciplinary, Electronics Engineer, Physicist, DP-855/1310-2/3, Code 62221. This position is located in the Supersonic Naval Ordnance Research Track (SNORT) Operations Branch, Range Operations Division, Range Department. The branch provides the facilities, personnel, and equipment to operate the Track Ranges. The incumbent will perform as an Instrumentation/Telemetry/Electronic System Engineer in the branch's Instrumentation Section. The incumbent will perform as a team member in the Instrumentation Section's operational activities. The incumbent designs, fabricates, calibrates, and installs telemetry systems to meet customer requirements for sledborne and test item instrumentation. A knowledge of IRIG timing, video and electronic data processing systems is desirable. The incumbent must be able to work with other engineers and technicians as part of the operations team. Please send current SF-171 to Bob Bouse, Code 6222, NWC ext. 4309.

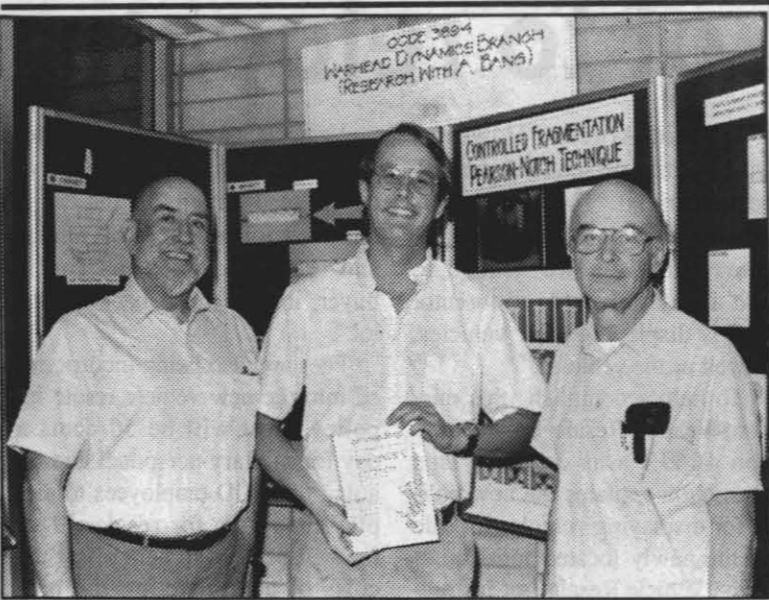
Cerro Coso College creates new program

Cerro Coso Community College is in the process of establishing a new Associate of Science Program in Quality Assurance.

Pending formal approval of the program, two courses will be offered this fall: *Introduction to Quality Assurance* and *Fundamentals of Nondestructive Testing*.

Tony Miller will teach the Quality Assurance class on Tuesdays and Thursdays from 5 to 6:20 p.m. and Peter Stewart will teach the Nondestructive Testing class on Mondays and Wednesdays from 5 to 6:20 p.m.

For more information on this program, contact the Counseling Office at Cerro Coso, 375-5001.



WORLD TRAVELERS--(l-r) Mark Alexander, Alan Lindfors and Steve Finnegan recently traveled to Brussels Belgium to attend the International Ballistics Symposium. Photo by Julie Paulsen.

China Lakers present papers in Brussels

Brussels, Belgium, headquarters of NATO and the European Common Market, was the setting for the 11th International Symposium on Ballistics in early May. And three China Lakers were there.

Mark Alexander, Steve Finnegan and Alan Lindfors of the Research Department's Warhead Dynamics Branch (Code 3894) presented two topics selected from over 200 entries based on originality, technical merit and general interest. The symposium is an international forum where scientists and engineers, specialized in ballistics present their latest studies or bring to discussion new ideas in the field.

Alexander, Code 3894 branch head, compared the opportunity to speak at the gathering to "what playing at Carnegie Hall is to a musician--it's a great privilege to interface with the foremost people in your field."

While in Brussels, the China Lakers toured the Royal Military Academy, which hosted the event, and other historic points of interest. Brussels has structures dating back a thousand years in a country known for frequent

changes of rule. Bordered by France, Germany and the Netherlands, Belgium is a small, flat land without natural barriers to keep out invaders.

The visit left an obvious impression. "One evening we were standing in the street outside a medieval cathedral when music came from seemingly nowhere and a light display bathed the gothic structure in pools of color," recalled Alexander.

"The city has a population close to 2 million," added Lindfors, "but it has the atmosphere of a small village. The people are warm and friendly--most speak English as a second language."

The opportunity to visit foreign countries is a reward for excellence in the field. Every eighteen months the symposium location alternates between the U.S. and Europe. Alexander and Finnegan have also presented papers in the Netherlands and France.

The Warhead Dynamics Branch conducts research into the effects of the impact of fragments and projectiles against a wide range of targets from aircraft and (Continued on Page 7)

Model Installation Program offers pathway to change

For the past three years, The Model Installation Program Office has been striving to provide NAVWPNCEN employees, and for that matter, anyone connected with the Center, with a means by which they could rid their work processes of out-dated regulations and directives, or make changes and improvements to "Quality of Life" issues that for so long have been regarded as "the way it's always been", or some other cliché that meant about the same thing.

To date, the NWC tally of submitted MIPIs totals more than 590 initiatives. That's impressive folks! And the MIPIs are coming from all over the Center; taking issue with every conceivable subject.

Our MIPI analysts are busy staffing issues that range from the packaging of small electronic parts to the repair of family hous-

ing to the changing of contracting and procurement regulations; from the authority to purchase road stripping paint which is superior to GSA issue to a host of payroll related issues; from computer management acquisition problems to the use of saving



bonds as incentive awards; from the elimination of mandatory supply sources to the control of overdue library materials; from the change in a couple of motorcycle regulations to the subject of waste jet fuel reprocessing; and the list goes on and on.

Why, someone even attempted to MIP the MIP! Hard as we try, we just can't please everyone. By the way, the "MIP the MIP" MIPI was thoroughly staffed and perhaps much to the chagrin, or maybe even to the pleasure, of the originator, we were able to tweak the program a little, with the result being a bit of an improvement in the operation.

The MIP office stands ready to staff your MIPI thoroughly and we're certainly not concerned with the method in which you get your idea or issue to us. We're as electronically close as your computer terminal or if you prefer, the Center's guardmail service stands ready to deliver your initiative. Many of our MIPIers have chosen to hand carry their MIPIs. If that is your choice of delivery, the MIP office is located in Room 2011, 2nd floor of the Administration Bldg.



PERSONAL THANKS--MIPI submitter Maria Houston is received by Capt. John Burt, NWC commander. Her MIPI led to the development of local training resources for NWC employees to qualify for Contract Specialist. Other recent MIPI contributors will be recognized at an upcoming ceremony with the Commander. Photo by PHAN Cary Brady.

Coming Soon

FIRST ANNUAL COMPUTER MINI-EXPO

July 19 & 20

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Lemon Lot to relocate

NWC's Lemon Lot is on the move. By the middle of July, this popular vehicle resale lot will be located in front of the Auto Hobby Center (located on Inyokern Road across from the Housing Office).

Elaine Arnell, special assistant/programmer for the Morale, Welfare & Recreation Division (MWR), recently announced that the "Lemon Lot" is now under the jurisdiction of the Auto Hobby Center, MWR. "This move will allow for better monitoring and protection of the vehicles being displayed," said Arnell.

Vehicles displayed at the old site must be removed no later than July 15. Vehicles not moved will be towed away and stored at a commercial storage compound at the owner's expense.

"The main purpose of the Lemon Lot has always been to provide a place for military personnel and NWC employees to display vehicles they wanted to

sell," said Arnell. "However, unauthorized personnel have also been using it. To prevent this unauthorized usage, and to mitigate vandalism, we needed to find a way to be able to monitor who is displaying their vehicles, as well as the vehicles."

To help accomplish this mission, Vehicle Resale Lot Instruction 4069.4 was created. This instruction explains the new policy for displaying vehicles for sale on the newly located lot. Copies of the Vehicle Resale Lot Instruction 4069.4 will be available at the Auto Hobby Center beginning July 3.

According to the instruction, military members, active and retired, and DOD employees are the only personnel eligible to display vehicles for resale. When registering to display a vehicle for resale, proof of ownership, current registration and proof of insurance must be shown. Registration forms are available at the Auto Hobby Center.

Vehicles may be left on the lot for a maximum of 30 consecutive days, noted Arnell. "If the car is removed for a couple of weeks, and the seller still can't find a buyer, it may put it back on the lot."

Fees are also being incorporated into the new vehicle resale lot policy. Cost will be 50 cents a day for military personnel and \$1 a day for DOD employees to display their cars for resale. "This fee will be used to help offset the costs of administering the program," noted Arnell.

"Vandalism to the cars in the old lot has occasionally happened in the past," said Jim Brown, chief of the China Lake Police Department. "With the new location just off the traffic circle, there will be more traffic and unauthorized activity around the cars shouldn't go unnoticed."

Arnell noted, "The new location, along with the added monitoring, will help protect buyers and sellers."



ONE LAST LOOK--The Lemon Lot is in the process of moving to the front of the Auto Hobby Center. Cars on the old lot must be removed no later than July 15. Vehicle Resale Lot Instruction 4069.4 will be available at the Auto Hobby Center starting Monday.

Meeting fixed for local FMA

Chira Lake's Chapter of the Federal Managers Association will conduct its next meeting at the new location, 707 Ellis. The meeting will start at 11:30 a.m. on Tuesday, July 11 with a short business section followed by a picnic. Hot dogs and soft drinks

will be provided by the chapter. Members and prospective members are invited to attend.

Contact Joe Hibbs at NWC, ext. 3673 or Carol Conrad at NWC, ext. 2234 for more information.



WORK RECOGNIZED--Nelson Foucher, Vertical Launch Sparrow (VLS) program manager for the Sparrow Project Office, Code 39B8, receives the Technical Management Certificate from Technical Director Gerry Schiefer as Bill Brown, Sparrow project manager, looks on. The Technical Managers Certificate Program requires more than 330 hours of classroom instruction covering Department of Defense, Navy and NWC management policies and practices in general, and their application to the management of system acquisition programs at NWC in particular.

Mac users meet July 10

Want to learn about E-mail alternatives on the Macintosh? Come to the July meeting of the NWC Macintosh Users Group being held Monday, July 10, at 2:30 p.m. in the Mojave Room of the Officers' Club building.

The meeting is being coordinated by Dave Morton, Communications and Information Systems Manager for the Product Assurance Division, Code 368. Morton will present an overview of electronic mail alternatives for

NWC E-mail users, then turn the meeting over to technical representatives from CE Software, who will demonstrate QuickMail, one alternative to InBox.

Attendees will also have an opportunity to share Macintosh

tips and problems and to "network" with other Mac users. Free software will be available to anyone bringing a blank, formatted 800-k floppy disk. The newsletter of the NWC MUG will also be handed out at the meeting.

Coming Soon

First Annual Computer Mini-Expo

July 19 & 20



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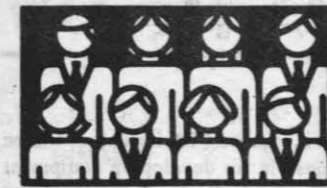
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Promotional opportunities

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

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

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

Application materials are accepted, and blank forms are available, at the Reception Desk, Room 100, Human Resources Department, 505 Blandly. Announcements close at 4:30 p.m. on Friday, one week after the opening date of the announcement, unless otherwise specified. Applications received after 4:30 p.m. on the closing date will not be considered. Copies of Applications may be submitted since applications are kept in an announcement file and cannot be returned or filed in personnel folders. The Naval Weapons Center is an Equal Opportunity Employer; selections are made without discrimination for any non-merit reason.

No. 22-014, Clerk-Typist/Personnel Clerk (Typing), DG-322/203-A/1/2, Code 226/227 - Incumbent performs the following duties for a major department(s): processes all actions affecting appointments, pay setting, separations, conversions of appointment, etc; performs competitive and noncompetitive qualification ratings; performs ranking and may conduct ranking/selection panels; and drafts vacancy announcements for recruitment. At the higher levels, incumbent advises and recommends to supervisors and managers recruitment options for certain occupations (e.g. clerical); participates in various phases of crediting plan development. **Job Relevant Criteria:** Knowledge of personnel policies and procedures related to staffing; ability to plan, organize, and accomplish work independently; ability to perform a variety of clerical/technical functions; ability to research, comprehend, and apply complex

regulatory information. Promotion potential to DG-3. Status eligibles may apply.

No. 24-025, Police Officer Supervisor, DG-083-3, Code 2413 - This position is located in the Safety and Security Department, Police Division, Operations Branch. Incumbent's primary function is that of supervising the Remote Range Police Officers and the patrolling function of the Remote Ranges. The incumbent will supervise the patrolling of a land mass of 1700 square miles. Duties include supervision of Range Patrol Police Officer, provides physical security of remote ranges, regulation of non-criminal conduct, recovery of property, prevention of crime and apprehension of offenders. This position will not be a rotated position with the other supervisor's in the Operations Branch of the CLPD. Incumbent must be an expert rider and teacher of horseback riding. **Job Relevant Criteria:** Knowledge of Federal, State and local

Personnel News & Notes

laws; knowledge of security principles as applied to safeguarding specific areas or sensitive items; ability to work independently in remote desert and mountainous areas; knowledge of the care and feeding of horses; ability to perform as a first-line supervisor; knowledge of affirmative action principles including a willingness to implement EEO practices. Incumbent may be required to serve a one year probationary period. Promotion potential DG-3.

No. 26-035, Electrical Engineer, DP-850-2, Code 2635 - The incumbent performs the duties of an Electrical Engineer responsible for construction, alteration, repair and maintenance of facilities. Functions as a project design engineer and engineer in charge of a wide variety of projects. Provides management and coordination of Military Construction projects including guidance to Architectural-Engineering (A-E) contract designers, review of the work done by the A-E and coordination of client needs. **Job Relevant Criteria:** Ability to do feasibility studies; ability to provide electrical support to engineering projects; and ability to scope cost estimates. Promotion potential to DP-3.

No. 27-012, Office Services Assistant, DG-303-2, Code 2703 - Incumbent provides administrative and secretarial support to the Acquisition Management Office. **Job Relevant Criteria:** Ability to use a PC; ability to research, collect and organize data; ability to deal effectively with all levels of people, ability to communicate orally; ability to communicate in writing. Experience with Macintosh PC is desirable. Promotion potential to DG-3.

No. 28-049, Lead Accounting Technician, DG-525-2/3, Code 28622 - This position is located in the Cost Accounting Branch of the Accounting Division of the Office of the Comptroller. The incumbent serves as a Lead Accounting Technician in the control and maintenance of Cost Accounting records and subsidiary ledger for the Major Contracts Section. The duties include providing on-the-job training to new employees; maintaining a current knowledge of and answering questions of other employees on procedures, policies, and directives used in the section; reviewing, revising and updating desk procedures used in the section; reviewing incoming contracts and amendments for accuracy and completeness; reconciling subsidiary ledger accounts to GLA accounts; auditing computer reports for accuracy; validating costs and accounting transactions; researching aged financial information to clear accounts; and assumption of supervisory duties in the absence of the Section Head. The incumbent has extensive contact with NWC project, budget, and supply personnel and provides information on various vendor inquiries. **Job Relevant Criteria:** Knowledge of the Integrated Disbursing and Accounting System; knowledge of the Document Entry System; knowledge of NAVCOMPT regulations; knowledge of NWC personnel, policies, and procedures; ability to communicate effectively, both orally and in writing; ability to meet financial deadlines; ability to interpret and apply a body of regulations and procedures under varying conditions; ability to deal effectively with a wide range of people. Promotion to DG-3, but not guaranteed.

No. 28-050, Supervisory Payroll Technician, DG-544-2/3, Code 2853 - Incumbent supervises 7-10 payroll clerks in the Payroll Branch Customer Services

Division, Office of the Comptroller. Supervisory duties include assigning and scheduling work, establishing procedures, training new employees, providing guidance and assistance, and spot checking work of subordinates. In addition, the incumbent is responsible for monitoring the establishment and maintenance of the basic master control accounts for leave and payroll, prepares special reports as required by the Head, Payroll Branch,, serves as the control point and liaison for payroll accounting data to and from the data processing group, and handles special accounts. **JOB RELEVANT CRITERIA:** Knowledge of computerized payroll system; knowledge of and ability to interpret Federal payroll principles and procedures; ability to act as a first line supervisor; knowledge of affirmative action including a willingness to implement EEO practices. Promotion potential to DG-4.

No. 30-012, Trainee Position, Engineering Data Technician, DG-303-1/2, Code 3032 - This is Upward Mobility position. Target position is an Engineering Data Technician, DG-303-2. Promotion potential in Engineering Data Management Specialist, DS-301-3. Duties include performing the function of Configuration Management (CM) librarian. As Engineering Data Technician the incumbent performs the functions of entering and retrieving materials from the library; entering CM related reports and forms into the CM data base using a PC; running weekly back-up tapes for Code 303 computers. The training portion of this position will involve specialized on-the-job and formal classroom training. As the librarian function is learned, duties will be expanded to include more direct participation in CM. Functions allowing progression to Engineering Data Management Specialist. These expanded duties will include assisting the configuration manager in the performance of daily CM duties; preparing updates/drafts of new CM plans; and serving as recording secretary for the CM Board. **Job Relevant Criteria:** Ability to learn how to use computers and software; ability to learn to operate a variety of PCs; ability to communicate orally; ability to communicate in writing; ability to deal effectively with people at various levels. The incumbent must be able to secure and maintain a secret clearance. Occasional off Center travel required; extensive walking between Code 30 buildings. Eligibility: NWC employees DA/DA/DT-2, DG-4, GS/WG-9 or equivalent and below, who are eligible for reassignment or change to lower grade to the trainee position. A supervisory appraisal for (NAWPCEN 12335/4) is required, you may pick up the form in the Personnel Building, Room 100.

No. 31-059, Engineering Technician, DT-802-2/3, Code 31331 - This position is located in EW Systems Effectiveness Section, EW Analysis Branch, EW Avionics Division in the Aircraft Weapons Integration Department. The incumbent will be involved in providing threat data to the Branch and others as required. The incumbent will be responsible for creating and maintaining a computerized Red and Blue/Grey threat data base. **Job Relevant Criteria:** Knowledge of computer data bases; Knowledge of radar systems and operation; Knowledge of ELINT terminology, displays and reports; Ability to collect, interpret and analyze threat data, resulting in technologically feasible threat information; Ability to communicate orally and in writing. Must be able to

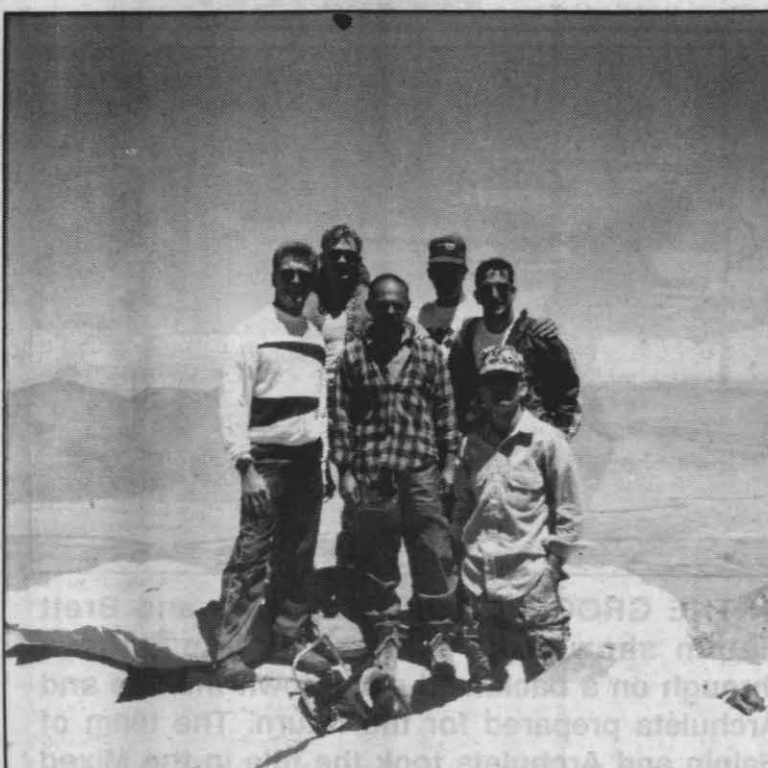
obtain SCI clearances based on SBI. If filled at the DT-2 level, promotion potential to DT-3, but not guaranteed.

No. 34-019, Visual Information Specialist, DA-1084-1, Code 3413 - This position is located in the Electronic Publishing Branch, Publications Division of the Technical Information Department. The incumbent is responsible for preparing publications, including technical illustrations and will be the primary system administrator and be able to carry out the day-to-day operation for an Interleaf publishing system, a Shaftstall disk converter, and a Linotron 300 typesetter. The incumbent must also be familiar with other word processing equipment and be able to train other employees in the usage of equipment and matters of style in publishing. **Job Relevant Criteria:** Ability to develop general and technical illustrations to be used in publications; ability to deal effectively with all levels of Center personnel, contractors, and vendors; ability to analyze data; knowledge of a wide variety of software programs; knowledge in Navy and DOD printing regulations and procedures; and knowledge of distributions rules and regulations. Promotion potential to DA-2, but not guaranteed.

No. 39-059 Supervisory Interdisciplinary (General/Mechanical/Electrical/Electronics/Aerospace/Mathematician/Physicist), DP-801/830/850/855/861/1520/1310-4, Code 395 - This position is the Head of the Radio Frequency Guidance Division in the Intercept Weapons Department. The division supports technology base, development and production programs in the areas of multi-spectrum guidance integration, ECCM techniques, radar target signatures and measurements, RF guidance techniques and RF component development. The division scope of work ranges from analysis, hardware and software design, laboratory, field and flight testing of demonstration components and sub-components, and engineering support to acquisition programs. The incumbent will provide planning, oversight and direction to the division in support of projects assigned and be a member of the Intercept Weapons Department Management Team. **Job Relevant Criteria:** Knowledge of RF systems and subsystems; ability to communicate in writing; ability to deal effectively with NWC management and sponsors; understanding of NWC personnel policies and procedures; willingness to support NWC EEO policies. Incumbent may be required to serve a one year supervisory probationary period.

No. 39-060, Electronics Technician, DT-856-3, Code 3943 - The incumbent will be the lead technician on the branch TIGER Seeker Team. The work involves advanced state-of-the-art IR seeker control and signal processing circuit design, fabrication and software development. **Job Relevant Criteria:** Knowledge of assembly language and emulators to develop software for test and evaluation; ability to work and interface, with other technicians, senior engineers, personnel and managers at the project level; ability to design and fabricate circuits; ability to work with computers. Promotion potential DT-3.

No. 62-048 Multidisciplinary (Engineering/Electronics Technician), DT-802/856 - 2/3, Code 62311 - This position is an Optical Instrumentation Technician in the Tracking Section of Electro-Optical Branch, Instrumentation Division, Range Department, Naval Weapons Center, (Continued on Page 16)



A COMMANDING VIEW--VX-5 pilots and NFOs perch atop the tallest mountain in the continental U.S. after an 11-mile climb. From left to right: Lt. Scott "Botman" McLellan, Lt. Joe "Tweet" West-on, Lt. Joe "Zot" Rzeszotko, Lt. Tom "Baron" Richter, Lt. Mike "Toad" Eddy and Cdr. Chuck "Doc" Antonio.

VX-5 officers keep fit by hiking nearby summits

When local residents complain that there's nothing to do around Ridgecrest, some people are amazed. It seems that there aren't enough weekends in the year for the officers assigned to Air Test and Evaluation Squadron Five (VX-5) and NWC to take in all the local sights.

Two weeks ago, six VX-5 pilots and navigational flight officers hiked to Mt. Whitney's summit on a one day push. They departed the Portals at 7:15 a.m. on a sunny Saturday and returned

at 6:50 p.m. with 22 miles under their belts. A cold bottle of champagne waited at the end of the trail.

"One of the many advantages of being attached to China Lake is having this great playground in your back yard," said Cdr. "Doc" Antonio, VX-5 Chief Operational Test Director.

Several of these officers have "bagged" other area peaks--Owens, Olancho, Wildrose and Telescope--since their China Lake tours began. They've taken

friends and families on day trips to the Coso Hot Springs resort, petroglyphs and geothermal power plant, Charlie Manson's Ranch, Kennedy Meadows, Darwin Falls and Fossile Falls. Another nearby gem they've discovered is Sunday Brunch at Death Valley's Furnace Creek resort.

Eventually their tours at China Lake will end, but they'll leave the area with memories of the adventures they had when they worked and played here.

Organizational meetings set in intramural sports

Flag Football:

On Wednesday, July 26, an organizational meeting for the Intramural Flag Football League will be held at 4:30 p.m. in the Morale, Welfare & Recreation Conference Room in Building 21 (next door to the gym).

League rules and roster requirements will be discussed at this time.

Flag football is open to all military, DOD and private citizens over the age of 18. Coaches and managers sponsoring a team should attend this meeting.

For more information, please call NWC ext. 6542.



Fall Softball:

On Wednesday, Aug. 2, an organizational meeting for the Fall Intramural Softball League will be held in the Morale, Welfare & Recreation Conference Room in Building 21 (next door to the gym). The meeting will begin at 4:30 p.m.

League rules and roster requirements will be discussed at this time.

Fall softball is open to all military and DOD personnel over 18 years old. All coaches and managers sponsoring a team should attend this meeting.

For further information, please call NWC ext. 6542.



Course needed for Navy riders

In 1986, approximately 40 percent of motorcycle fatalities in the U.S. involved riders who were not properly licensed to ride a motorcycle.

So prospective motorcyclists can improve their knowledge and skill concerning motorcycle operation, they should take a Motorcycle Safety Foundation rider course (MRC/RSS) to learn how to ride correctly and improve their chances of passing the

required knowledge and skill tests. Active-duty Navy people must take and pass this course in order to operate a motorcycle on or off base. Navy motorcyclists will not be issued a decal permitting them to ride on base unless they do take the course (OPNAVINST 5100.12E).

Some people feel that if their motorcycle is home and they only drive it when they take leave or are on liberty, they do not have to

take the Navy's motorcycle safety course. This is not so. Anyone in the Navy that is going to ride a motorcycle at any time must take this course.

By going through the steps above, a motorcyclist becomes prepared to face the reality of riding on the street. Be sure to get that motorcycle license; it's your ticket to ride.

Safetyline
April 21, 1989

Vanquish hunger at the Strike Zone

When hunger strikes, the "Strike Zone" can help. For lunch, dinner or just a snack, the "Strike Zone," located at Hall Memorial Lanes, will offer a wide selection to combat those hunger pangs. Enjoy 25 different sandwiches, burgers, fries, chips,

sodas, beer and wine coolers.

The "Strike Zone" is open seven days per week: Monday through Thursday, 11 a.m. to 9 p.m.; Friday, 11 a.m. to 11 p.m.; Saturday, 10 a.m. to 11 p.m.; Sunday, noon to 9 p.m.; and on holidays from 1 to 9 p.m.

Softball tourney planned

HITTER's annual Men's "C/D" 3-Pitch Slowpitch softball Tournament will be held in Ridgecrest/China Lake on July 15-16.

Selected games will be taped and the videos will be shown that same day.

The entry fee is \$150 and the entry deadline is July 5.

For more information, contact Del Kellogg at 446-3152, 1260 N. El Prado, Ridgecrest; or Hitter's Restaurant at 375-2901, 815 N. China Lake Blvd., Ridgecrest.

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Researchers share findings with world

(Continued from Page 5)

ships to concrete fortifications. The purpose is to gain a practical understanding of materials response to high-intensity transient loads.

The first paper by the NWC group was an oral presentation by Alexander on the subject *Destructive Pressurization of Closed Compartments by High Velocity Fragment Impacts*, written by Alexander, Finnegan and Lindfors. This topic, debated for a half century, was revisited using historical highlights and more recent information.

The second presentation appeared in the poster session. *Backed Plate Impact Fragmentation Behavior* was researched and written by Finnegan, Lindfors, J.C. Schulz and O.E.R. Heimdahl of NWC. Such information is of value in development of improved armor, design of warheads to defeat armor, and evaluation of cased munition sen-

sitivity to bullet or fragment impact.

The most productive aspect of the symposium, according to Alexander, was the chance to meet with other experts and discuss what you're doing and the problems encountered. Side meetings held after the presentations led to the formation of three cooperative efforts between NWC and organizations from other countries, one with West Germany's Earnst Mach Institute, a research facility similar to NWC.

"We've got a great batting average," said Alexander. "Nearly all the papers we've submitted to the symposium over the years have been accepted for presentation." Lindfors identified NWC's greatest strengths to be its extensive test ranges and facilities, and employees with exceptional analytical, engineering and mathematical expertise.

Diners Club card accepted at Navy Quarters

Citicorp Diners Club Inc. and the Naval Military Personnel Command have signed an agreement which provides for U.S. Navy bachelor quarters to accept the Diners Club charge card.

Activities affected by the agreement, effective April 6,

include all BOQs, BEQs and other Navy lodging facilities.

Approximately 450,000 Diners Club Cards have been issued to frequent official travelers since the U.S. Government's travel card program began in 1983. The Navy has approved cards for

more than 60,000 of its military and civilian personnel. With enrollment still underway throughout the Navy, the card program is endorsed by the Navy Comptroller General as a means to reduce overall Navy travel and subsistence outlays.

"Diners Club welcomes this expanded opportunity to serve the Navy and its official travelers," stated Diners Club Vice President Eric Swanson. The official navy authorization memorandum was issued by Commander, NAVMILPERSCOM on March

29. According to the memorandum, acceptance of the Diners Club Card is mandatory for all bachelor quarters.

The BEQ and BOQ at NWC will begin accepting the card early July.

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McLean, Thompson Award winners

(Continued from Page 1)

Capt. Robert Dropp, Deputy Commander, Military and Support Operations, for his contributions to NWC during his tenure as Commander. Capt. Burt was recognized for leading an internal organization/mission review and implementing major managerial improvements. His involvement with EEO, T&E initiatives, geothermal energy, facilities beautification and teamwork recognition was exemplary. Capt. Dropp's nomination letter summed it up: "His grasp of the complexities of managing a highly diverse, technical organization enabled him to effectively lead the Naval Weapons Center."

As Capt. Burt accepted the award from Schiefer, he addressed the assembly, "I appreciate your acceptance and your willingness to go along with my radical ideas," he related. "I look forward to seeing the Center as a continuing strong support to the Country after I leave here."

The William B. McLean Award was established in 1968 to recognize outstanding creativity among employees in furthering the mission of the Naval Weapons Center as evidenced by significant inventions. This award, among the Center's most prestigious, pays tribute to Dr.

William B. McLean, Technical Director at NWC from 1954 to 1967. His many inventions include 18 patents. Dr. McLean, by his leadership, vision, and tremendous personal contribution to the mission of NWC brought lasting recognition and distinguished reputation to China Lake. This award consists of a certificate and a medallion engraved with the name of the recipient and the year of the presentation.

This year's first McLean award went to Robert Dillinger, associate head, Propulsion Systems Division. He began his civil service career at NWC in 1961. For his many innovations in the field of tactical missiles and his technical leadership which has established him as an authority in his field, Dillinger was nominated for the award by Matt Anderson, Ordnance Systems Department Head.

The award cited Dillinger "For innovation and leadership in thrust vector control and vertical launch technology of tactical missiles." Dillinger was unable to be at the luncheon and received his award during Monday morning's Commander's Meeting.

This is the second time that Bennie Macomber has received the McLean award. "During his

18-years at the Center, his exceptional creativity and technical expertise have greatly contributed to significant advances in the field of radio frequency fuzing and electronic countermeasures," stated Dillard Bullard, head, Intercept Weapons Department in Macomber's nomination letter. Macomber is head of the Radio Frequency Guidance Division and a nationally recognized expert in his field.

The final McLean award went to Herb Richter, whose many patents and publications have brought him international acclaim, and have brought recognition to the Center. His career as an NWC chemist began in 1967. Richter was nominated by Ronn Derr, head, Research Department to receive the award "For outstanding creativity resulting in significant inventions in chemiluminescence, energetic materials and polymeric optical coatings."

Schiefer concluded the presentations with a few words on the newly embraced NWC philosophy of 'Continuous Improvement'. "You will be swept up into Total Quality Management as we were," he said. "It's exciting looking forward to reading and hearing about China Lake in the future. I think we're going to be awesome."



AWARD WINNER--Robert Dillinger (right) received his McLean Award at the Commander's Meeting Monday. Gerry Schiefer (left), Technical Director, and Capt. Paul Valovich, NWC Vice Commander, made the presentation.

Yard inspections routine on-Center

Housing says...Summertime is here and the Housing Office would like to remind all residents of their responsibility to maintain the yards and surrounding areas of their assigned quarters.

Housing Policy and the Housing Occupancy Agreement require that occupants perform routine lawn maintenance. Weekly yard inspections are conducted and yard notices issued to occupants whose yards require remedial action.

If the discrepancy exists at time of the second inspection, a memo is sent to second level supervisor. Eligibility for housing could cease should discrepancies continue.

The participation of all residents in family and bachelor civilian quarters is requested in keeping the housing area looking good.

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HONORED GUESTS---
(l-r) Bennie Macomber, Herb Richter, Capt. John Burt, Matt Anderson, Tom Hamilton, and James Hall. Gerry Schiefer (far right) stood in for Robert Dillinger who was unable to attend Friday's luncheon.

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Brett Halpin, Karen Archuleta take home honors

Weather cool, but action hot in Tennis Club's tournament

By PHAN Cary Brady

There were great conditions for tennis during the 1989 China Lake Tennis Club's Doubles Tournament held this weekend at the China Lake Tennis Courts. Temperatures were in the 80s-90s with no wind. Cool by China Lake standards, but the action on the courts was anything but cool.

In the mixed doubles "A" bracket, Brett Halpin and Karen Archuleta won in straight sets. Both had great all-around games, playing the net or the baseline, and also using a variety of slices and topspin shots.

After taking the mixed doubles "A", Halpin moved on to team up with Morris Scharff, who limped his way into the finals for

the second straight year. Halpin and Scharff were heavily favored and they didn't disappoint their fans, defeating the team of Al Alvarado and Tom Gey.

Linda Duncan and Mary Alvarado won the round robin-type tournament by defeating Karen Archuleta and Julie Hall, and Doris Sorensen and Terry Rowell, who finished second and third respectively. The main weapon for the Duncan-Alvarado team was their lob, usually thrown up by "lobbing" Linda Duncan, which defeated the dreaded Sorensen "kick" serve.

In other scores, the Men's "B" Division was won by Terry Morrison and Tony Brown. Second place went to Bill Duncan and

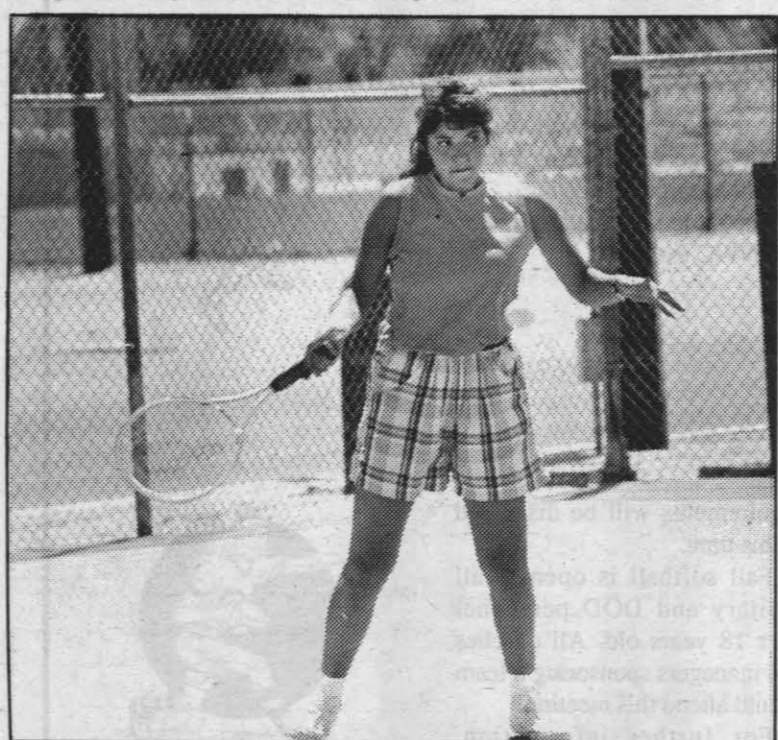
Bob Hintz. In the Mixed "B" Bracket, Ralph Rungo and Terry Rowell won a hard fought match against Tim Higgins and Doris Sorensen, capturing second place.

Tennis can be an exciting game for the entire family. In fact, the next CLTC tournament will have a "Family Entry" format. Most matches will be held in the morning to beat the heat and make the game a little more enjoyable.

Members of the China Lake Tennis Club encourage beginning tennis players to come out and play in their tournaments. The next tournament is scheduled for July 29-30. You'll never know how much fun it can be until you've tried it!!



IN THE GROOVE--Karen Archuleta and Brett Halpin show their skills as Halpin follows through on a backhand slice down the line and Archuleta prepared for the return. The team of Halpin and Archuleta took the title in the Mixed Doubles "A" bracket of the 1989 China Lake Tennis Club's Doubles Tournament by beating the team of Bill and Linda Duncan. The tournament was held this past weekend at the China Lake Tennis Courts. The next tournament is scheduled for July 29-30. Photo by PHAN Cary Brady.



LOOKING AHEAD--Karen Archuleta, not worried about a missed hit, is already looking ahead on where to place the ball during the recently held 1989 China Lake Tennis Club's Doubles Tournament. Photo by PHAN Cary Brady

Edward's Golf tournament to benefit American Cancer Society

"Flight for Life", a golf tournament benefitting the American Cancer Society, takes place Saturday, July 15 at Murok Lake Golf Course, Edwards Air Force Base, beginning at 10:30 a.m.

Foursomes are currently signing up to participate. Other golfers will be assigned a foursome upon arrival.

Cost is \$125, which includes green fees, cart and entrance to the awards banquet.

Of special interest is the trip to Tahiti on the cruiser "Wind Song" for the lucky golfer who hits a Hole-In-One at the tourney. For additional information or to make your reservation to play, call (805) 945-7585.



Swimming, bicycling and running planned Morale, Welfare & Recreation hosts Mini-Triathlon on Oct. 7

On Saturday, Oct. 7, the Mini Triathlon of 1989 will be held at the Officers' Pool. Divisions being held in this Morale, Welfare & Recreation Division sponsored event are: *Men's & Women's Individual* -- Junior, ages 17 and under; open; senior, ages 40 to 49; and master, 50 years of age and older; *Teams* -- men's, women's and mixed.

T-shirts will be given to all participants and individual awards for first through third place in the open divisions will be awarded. Awards for first place in all other individual and team divisions will also be given.

Events being planned are the 1/2-mile swim (32 lengths), 25-

mile bicycle race and the 6.2 (10k)-mile run. Events will take place in the order listed above.

Entry fees will be \$15 per person. Additional information, such as heat times and the availability

of entry forms will be printed in a future issue of the *NWC Rocketeer*.

For further information, call NWC ext. 6542.

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powered clock/calendar, full enhanced keyboard, & all the other stuff you'd expect in a complete system. This is Video Technology's **new Laser AT 286X**. Front-panel speedometer shows CPU speed, high-resolution monochrome and color graphics adapter, complete user's manual & other documentation, MS-DOS 4.01, and total compatibility. Even the case is especially attractive. Complete system with word processor, spreadsheet, utilities, high-resolution monochrome display, 2-year warranty, & 65MB, 25ms hard drive now only \$1,695. With 40MB, 38ms hard drive, only \$1,595 and with a 30MB, \$1,495. With this system only, Citizen 180D printer only \$159, upgrade to EGA \$379, upgrade to 80MB, 28ms SCSI hard drive \$249.

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Pictures, stories wanted from local fishermen, women Fishing is picking up in Eastern Sierra area

(Editor's note: To allow our local fishermen (and women) a chance to show off their catches, the Rocketeer will run pictures submitted by Rocketeer readers as space allows. While black and white polaroids are acceptable, the staff would prefer prints. Submit pictures, including your name, code and phone number to the Rocketeer Office, Code 0033, Naval Weapons Center, China Lake, CA 93555. If a picture isn't available, but you want to brag about your extraordinary catch, call NWC ext. 3354 and ask for Peggy. Your name, description of catch and where you caught it will be mentioned in the next issue, as space allows. Pictures and names used in the Rocketeer are solely the choice of the Rocketeer staff.)

According to the Bishop Chamber of Commerce, streams in the Lone Pine area have had good fishing for those using power bait and salmon eggs. Fly fishing is best in the morning and early evening.

Lake Sabrina, in the Bishop area, has had excellent fishing from the shore with power bait, trolling with needle fish and small repalas and flies in the early morning and early evening.

Plenty of sporting events are available for military

According to Morale, Welfare & Recreation, Sports Section, the following events are scheduled in the near future; these events are open to active duty military personnel only.

- Men's Tennis --NAS Miramar, Aug. 25-27
- Men's & Women's Swimming & Diving -- Naval Station San Diego, Aug. 3-4
- Horseshoe Championships -- Naval Station San Diego, Aug. 28-Sept. 1
- Chess Tournament -- Naval Hospital San Diego, July 17-21
- Women's Softball -- Naval Station Long Beach, July 15-16
- Men's Softball -- Point Mugu, July 15
- Men's Golf -- NAS North Island, July 17-21
- Women's Golf -- NAS North

Bishop Creek, Intake 2 and North Lake have had good results on worms, flies and small Mepps Spinners. South Lake is only doing well on the back side of the lake for brookies and browns. Be sure to use meal worms. On the river, power bait and night crawlers are having good results for bait fishing. Use flies in the evening and morning. Hungry Packer Lake in the back country has been doing great on salmon eggs, worms and power bait.

Anglers report fair to good fishing in the Rock Creek Lake area. It is better in the evening on flies or fly and bubble and Janes Favorite. Rock Creek is releasing pan-size rainbows on salmon eggs and flies, mosquito or grey hackles. Power bait seems to be catching small browns.

Fishing has picked up at Crowley Lake. Sacramento Perch has been the best catch on croppie jigs with yellow feather and worm. The best bet for browns is to troll using a flatfish frog pattern with three or four colors.

All the lakes in the Mammoth Lakes areas are releasing nice size catches. For browns in the 1-2 lb. range, use the bubble and fly or power bait. For brookies from the streams, use the bubble and

fly or salmon eggs.

In the June Lake area, trolling is best on June Lake in the early morning for those using a Dave Davis with a night crawler for cutthroat 2-3 lbs. For shore fishing, use power bait, orange or yellow. At Gull Lake, troll early in the morning or late in the evening with surface flies; for bait fishing, use power bait or eggs and garlic marshmallows. Night crawlers are best on Silver Lake. The creeks have been good on worms or red eggs for browns up to 12 inches. The fly hatches have been Blue Dunn or a White Miller, and lots of mosquitoes.

In the Bridgeport area, trolling and still fishing on the lake out of a boat has been good for 12-16 inch rainbows on power bait, baby night crawlers, repalas with attractor and night crawlers. Shore fishing is good for pan-size fish on power bait, bubble and fly, and silver and fluorescent wobbling spoons at Twin Lakes. For anglers at Virginia Lakes, shore fish with power bait, worms, bubble and fly, or spinners spoons. Green and Robinson creeks have been producing limits on small silver Panther Martins. Fly fishing is also doing well.

Savings Bonds are affordable

Savings Bonds come in denominations to suit every budget -- from \$100 to \$10,000. They cost just one-half of face value, so purchase prices start at just \$50. (Current savers receiving smaller denominations may continue to do so.) Other denominations are: \$200, \$500, \$1,000 and \$5,000.

For further information on how to enter these events, contact the athletic director, Mike Slobodnik, NWC ext. 6542.

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NAS Miramar plans tennis tournaments

Attention, tennis enthusiasts! Naval Air Station Miramar's Morale, Welfare & Recreation Department is hosting a tennis tournament on July 29-30 and Aug. 5-6.

All active and retired military personnel, DOD and dependents 16 and older are eligible to enter this competition.

The top two places in each division in singles and doubles will receive awards and each participant will receive a t-shirt. Entry fees are \$8 for active duty military personnel and \$10 for all others.

The schedule will be drawn up by noon on July 26. Normally, all matches will be scheduled from 8 a.m. to 6 p.m. It is the responsibility of each individual participant to contact the Athletic office at 537-1202 for further information of first round matches. The draw will be posted at the courts for information on subsequent matches.

To enter, send the entry form (printed below) and fee to MWR Dept., Code 21141, NAS Miramar, San Diego, CA 92145-5000 by July 25. Checks should be made out to NAS Miramar MWR Fund.

Name _____

SSN _____ Phone _____

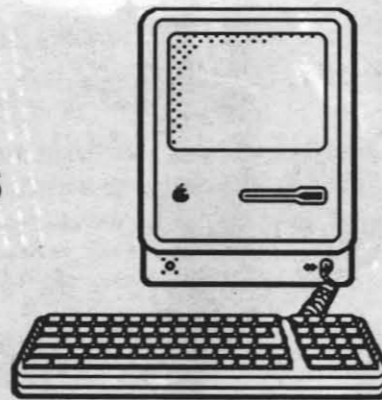
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ANOTHER EDGE--The China Lake Police Division has another weapon to fight against drugs. Cito, a purebred shepherd, recently joined the division after being trained in patrol and narcotics. Cito is trained to locate hidden narcotics. Posing with Cito is Sgt. Ronnie A. Lewis, the canine's handler.
Photo by Peggy Shoaf.

Liberal leave, early deadline in effect

While Monday is not an official holiday, Gerry Schiefer, NWC technical director, noted that a liberal leave policy will be in effect for that day.

Staff at the *NWC Rocketeer* would like to remind readers that since Tuesday is a holiday, the deadline for submitting articles for the July 7th issue is 4 p.m. on Monday, July 3.

Radar cuts down speed

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

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

- Monday -- Inyokern Road.
- Tuesday -- Blandy Avenue.
- Wednesday -- Richmond Road.
- Thursday -- Lauritsen Road.
- Friday -- South Knox Road.

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

Sea World's visitors can now experience evening entertainment

Visitors to Sea World this summer can experience the park's Summer Nights evening entertainment program free all season with the purchase of regular admission. The Summer Nights Pass, a \$17 value, allows visitors to enjoy unlimited admission after 5 p.m. until 11 p.m. throughout

Summer Nights' t run, June 24 through Labor Day. Summer Nights' agenda includes killer whale, sea lion, and otter night shows. The tour de force, however, is the "Odyssey On Ice" show produced by and starring Olympic gold medalist Scott Hamilton with many world renowned

figure skaters. Sea World, located on Mission Bay in San Diego is just off of I-5 on Sea World Drive. Discount tickets for regular admission (\$16.25 per adult, \$12.10 per child) can be purchased at the Information, Ticket and Tour Office.

Videodisc uses grow

(Continued from Page 1) spent 'shuttling' the tape backward and forward, searching for frames. Aside from being inconvenient, the mere process of running the tape shortens its lifespan. An average quality tape can be played approximately 20 times before deterioration is evident.

Tape storage presents other limitations. Recordings can be erased if exposed to a magnetic source. In 1984, tapes stored in the basement of Michelson Lab succumbed to flooding. Heat is also destructive to the delicate tapes over a prolonged period.

Because magnetic material dissipates with time, the magnetic quality of tape shortens its life expectancy to 10 years under ideal conditions. "This makes for poor archiving of video," said Dye. "Tape with historical significance has to be reworked twice each year and rerecorded every five years."

"Videodiscs' Advantages

Laservision videodisc composition begins with a 12-inch clear plastic disc. A pink syrup with metallic properties (polymer based formula) is poured over the disc and a final plastic overcoating seals the upper surface.

Because video is a wide wave band as opposed to the narrow band of audio, videodiscs are larger than the compact audio laserdiscs (CDs) currently marketed for high quality sound.

Each of 54,000 concentric circles from the inside to the outside edge of a disc represents a still frame of video. One 12-inch disc contains 30 minutes of recording time.

A laser records on the metallic inner layer of the disc by cutting a pattern of pits mirroring the wave bands' peaks and valleys.

Each pit contains audio and video information. The laser passes through the clear outer layers of plastic, leaving them intact to protect the inner layer. In the reading mode a laser light beam scans the recorded pattern, reflecting where pits are not present. The absence of physical contact with the surface while reading guarantees a zero wear factor, making the videodisc especially valuable for storing historical information.

Laser disc players feature random access, a major advantage over tape shuttling. The laser searches from the inside to the outside of a disc in less than one-half second. A single frame or series of frames can be selected from the disc for reviewing or for editing purposes. Random access is also possible through an interactive computer program. Data base software allows access to frames relating to the same project from the same or different discs.

Laser precision and broadcast quality add up to a well-defined picture. "With the capacity to record two-channel hi-fidelity quality audio, the Laservision videodisc system can generate the sharpest images and sound available for NWC's purposes," Dye said.

Laserdiscs require the same storage conditions as videotape but are immune to damage from water and magnetic sources. If exposed to water, mud or dust, they can be rinsed and dried. Stacked in sleeves, they are able to withstand a greater degree of heat than tapes. Stored this way, they also take up less space than tape cartridges.

Conversion Available

Although laserdisc technology

has been around for years, only recently has it become cost-effective for use at NWC. Video recorded on VHS, 1-inch or 3/4-inch tape, film or slide format can be transferred to disc for archiving, editing, or everyday use. Call the film and video projects branch at NWC ext. 3697, or drop the tape off at the office located on Blandy Ave. in the old community center.

Previously contracted out for \$2000 per 30 minutes, the cost of conversion was considered prohibitive. But now the same process performed in-house is about \$150 per half-hour, including labor and materials.

The transferring process is completed in real-time; and in-house facilities enable faster, more secure processing of classified information.

The significance of this product was demonstrated in a job recently performed for one Center code. Three hundred tapes of cook-off tests were edited and consolidated onto videodiscs. To gain immediate access to specific frames, a chapter search was programmed with stop codes and identification. The controller can advance and reverse the video in a wide range of speeds, or freeze individual frames.

Videodisc players cost anywhere from \$300 for consumer quality to \$1800 for upper-end broadcast quality. All equipment on the market meets the world standard, "Laservision", which guarantees compatibility between all players and discs. A few loaners are available from the film and video projects branch, and GSA has established a contract for the purchase of players.

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RAF Hendon: Home to busy air museum

Well off the beaten path in a north London suburb, RAF Hendon bears little resemblance to a normal Royal Air Force installation. There are planes, but not a runway in sight. Since RAF Hendon is home to the RAF Museum the lack of runways isn't really important anymore.

This museum traces the history of the Royal Air Force from its beginnings in the early part of this century to the Falkland Islands conflict just a few years ago. From the strut, wire and fabric biplanes of pre-World War I to the Sea Harrier Jump jets, long-range Vulcan bombers used in the battle to recapture the Falklands and modern fly-by-wire technology. Visitors to this museum can see it all.

There is a separate wing of the museum for the Battle of Britain and a whole building for a RAF Bomber Command Museum.

The Battle of Britain wing features aircraft such as the famous Spitfires and Hurri-

canes used to defend British soil against the waves of bombers sent over by Nazi Germany as a prelude to the planned invasion of Britain from occupied France.

Many of the famous bombers of the RAF are inside the huge Bomber Command facility, just across the parking lot (car park in Britain) from the RAF Museum. Both buildings are included in the admission fee.

There are strong ties to the United States in the RAF Museum, from examples of planes flown by American pilots in World War I to the fully restored B-17G Flying Fortress on display in the main hall. The B-17G was once in service with the Navy's VX-4. Its final duty, before being restored to fighting condition, was a fire attack bomber in the western United States. The Fortress was flown to Great Britain from the U.S. in 1983, one of the last known flights of a B-17G.

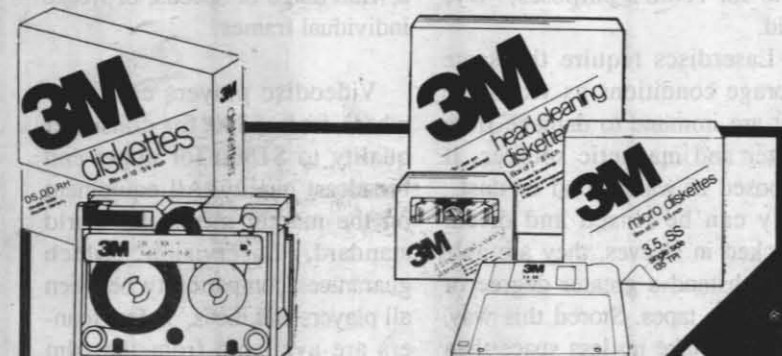
Other famous aircraft displayed at RAF Hendon include the B-25 Mitchell, best

known for the first U.S. plane to attack Japan, the fast and versatile De Havilland Mosquito, an all-wood aircraft in an era of metal construction. Also, the first British strategic jet bomber, the Vickers Valiant and the remains of a Halifax bomber, recovered from a Norwegian lake in 1973.

It landed on the frozen lake following an attack on the German battleship Tripitz in April of 1942. While the crew escaped across the frozen surface of Lake Hoklingen, the bomber soon went to the bottom.

RAF Hendon has been a part of aviation in Britain since the early days of ballooning and flying home-built aircraft. It became part of Great Britain's military air establishment in 1914. Today it is the most popular and largest aviation museum in Europe. When in London, it's well worth the trip. The London Underground, bus and train all have stops within walking distance of RAF Hendon.

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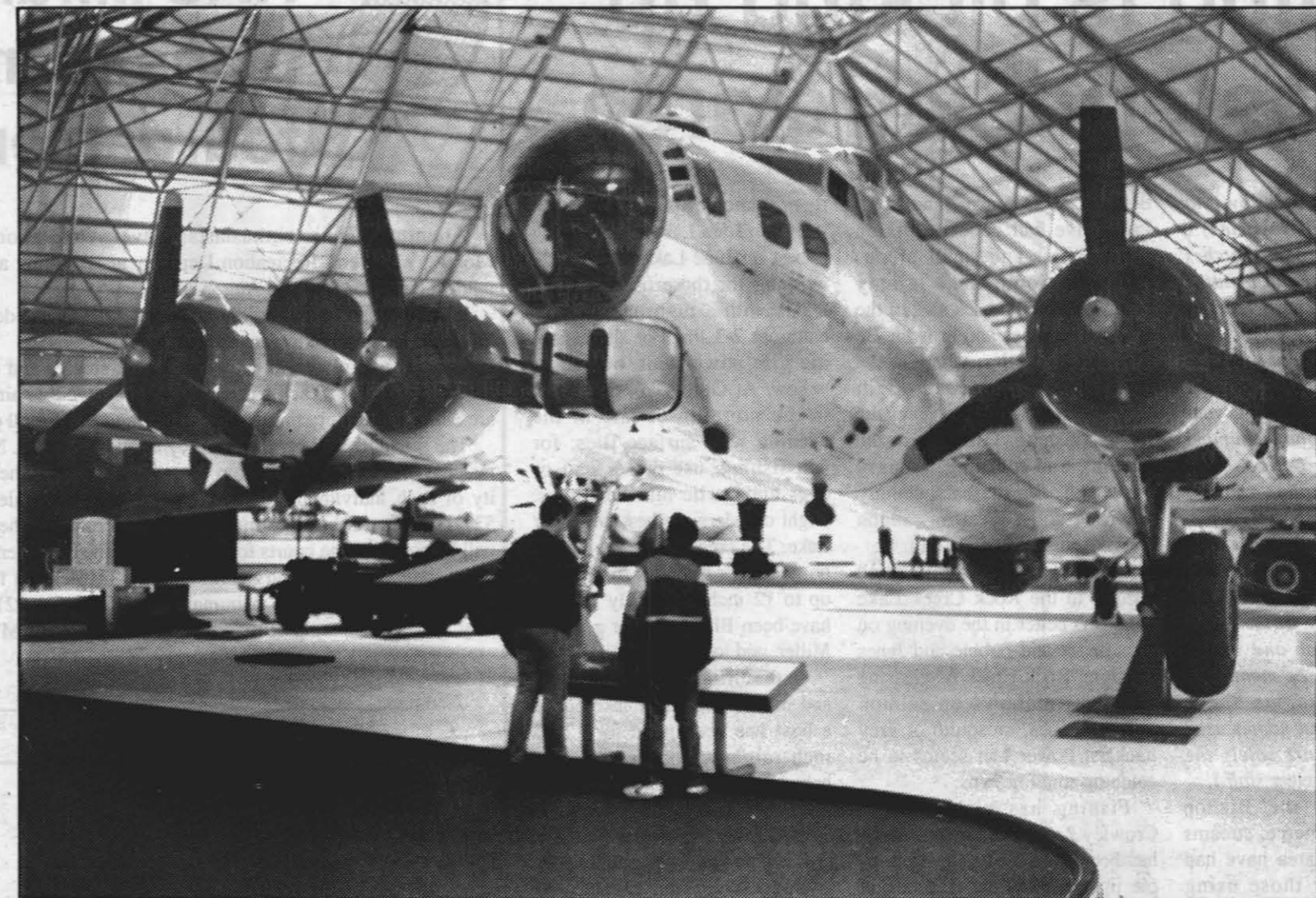
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ROYAL AIR FORCE MUSEUM

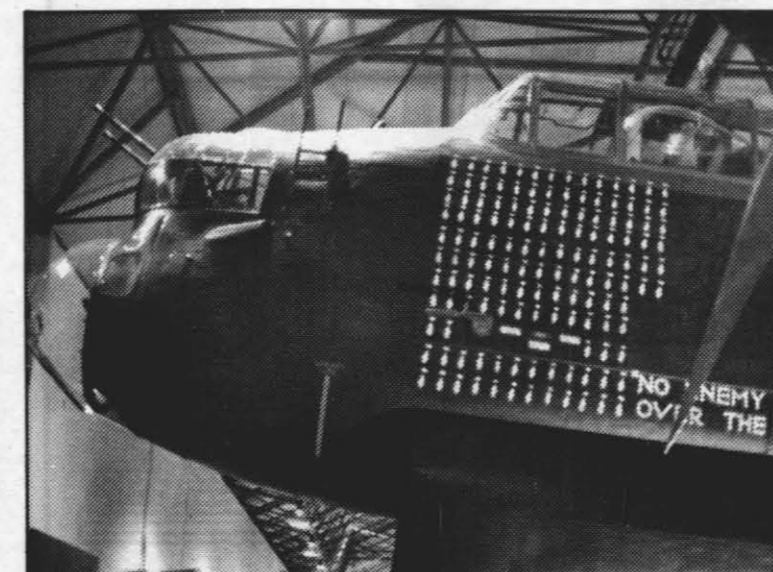


P-38 LIGHTNING-This photo shows one of the fastest fighter escorts used by the Allies during World War II. Many aircraft not displayed in the museum can be seen in photographs taken during the war and now housed in the RAF Museum.



FLYING FORTRESS-Visitors to the RAF Museum in Hendon, pause to admire the massive B-17G Flying Fortress, one of the stalwarts of World War II bomber attacks against the Axis nations. Flying out of Great Britain the Forts were common sights during the war years. This B-17G once flew with the U.S. Navy's VX-4 squadron.

Story & Photos by Steve Boster



HEAVILY ARMED-The Aero Lancaster was a leading British-built bomber during World War II. This one was a veteran of numerous raids over occupied territory.



EARLY MODELS-Biplanes mingle with modern mono-winged aircraft and jets at the Royal Air Force Museum in Hendon.