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April 11, 1991

ON THE INSIDE PAGE

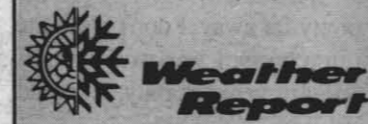
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Wed.	81	42	09
Thurs.	85	45	09
Fri.	90	49	20
Sat.	82	50	--
Sun.	77	52	19
Mon.	75	41	09
Tues.	82	42	27

Grad Night plans underway for BHS students on June 6

Members of the Committee for a Safe Graduation are hard at work planning the fourth annual Senior Grad Night Party, which will be held June 6, from 10 p.m. to 5 a.m. at the Naval Weapons Center's Officers' Club. The party will include live bands, DJs, dancing, swimming, door prizes and many other activities.

Volunteers are needed to work now and the night of the party. All community members are encouraged to show their support for our teens by helping to provide a safe and fun place to celebrate graduation.

To help defray the costs of this party, committee members are asking parents of all seniors to contribute \$20. Checks made payable to CFSG may be mailed directly to Margaret Hannon, CFSG treasurer, 308 Perdew St., Ridgecrest.

Michelson Lab Awards ceremony next Wednesday

Several Naval Weapons Center employees will be recognized during the Michelson Laboratory Awards ceremony scheduled for 9:30 a.m. on Wednesday, April 17, in Room 1000D of Michelson Laboratory.

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

NWC Rocketeer

Naval Weapons Center, China Lake, California 93555-6001

Vol. XLVI, No. 14, April 11, 1991

Diamonds: NWC researchers say missile dome use likely

By Steve Boster
Rocketeer Editor

Five to 10 years in the future, diamonds may become a pilot's best friend when used in domes of infrared guided missiles. At the Naval Weapons Center chemists and physicists are busy with research and development efforts to make diamond coatings on domes or even solid diamond missile domes a reality.

The technology used in infrared-transmitting domes is up to 30 years old, according to Dr. Dan Harris of the Research Department's Chemistry Division. These domes, made of ceramic materials, are susceptible to damage from the unfriendly environment of being mounted on an aircraft and flown at high speeds. Rain and sand cause pitting of the dome surface, causing them to be replaced. Additionally, thermal shock can cause the dome to shatter. Harris noted this is because the nose of the dome can become very hot and the heat doesn't spread evenly to the rest of the dome, causing it to shatter.

Since diamond is the hardest known material, thin diamond coatings are expected to increase the durability of missile domes. Harris notes there is no real quantitative data on this yet, since the research is still in early

stages. He does think, however, there is strong evidence to suggest diamond-coated domes would prevent excessive pitting on the surface when exposed to harsh environments.

As for thermal shock, Harris notes diamond has an extremely high thermal conductivity value coupled with low thermal expansion properties and great strength, therefore the resistance to thermal shock should exceed that of existing ceramic domes. And, if thick diamond domes can be grown, they would be more resistant to thermal shock by a factor of 100 or more over materials now in use. Solid diamond domes appear to face more technical problems than thin coatings at this time.

NWC is the lead Department of Defense (DoD) lab for infrared missile domes, making this the focal point for research into potential new dome materials, noted Harris. An estimated four man years worth of effort at China Lake is going into this research. Dr. Robert Schwartz of the Technology Advancement Group is managing the overall effort, which includes NWC, other governmental laboratories, contractors and universities.

Active research in diamond at NWC has been going on for about three years, said Harris. However, the original research was actual-

ly done in the Soviet Union. "They published their results in a 1980 paper which served as the basis for the Japanese and the United States getting into the effort," said Harris.

Some of the earliest work in the U.S. was done at Penn State University, sponsored by the Office of Naval Research in 1985. In fact, Schwartz and ONR were the sponsors of the original Penn State work according to Harris.

While the diamond-coated domes are being looked at primarily for IR missiles, Harris says the properties of diamond may make it possible to combine radar guidance and IR guidance functions under the same missile dome. Today, the radomes are made of different materials than IR domes.

Most current IR domes are made of magnesium fluoride or zinc sulfide. In both cases, the domes have to be replaced periodically because of environmental damage.

Diamond coated or solid diamond domes are likely to cost more than existing materials, but Harris thinks the increased durability will mean a cheaper life-cycle cost since the hard diamond will not need to be replaced during the life of the missile.

Chemically, the diamond films are almost (Continued on Page 10)



DIAMOND TEAM-- Research into diamond films for use on missile domes is being carried out by a strong China Lake team including Frank Cerio, Linda Johnson, Mark Moran, Curtis Johnson, Dan Harris, Wayne Weimer and Karl Klemm. The team is standing next to the strongest diamond growing device currently used at the Naval Weapons Center. Photo by PH3 Cary Brady

Visiting Seabees go right to work

By Peggy Shoaf
Rocketeer Staff Writer

They came from Wisconsin, Minnesota and Illinois to work under sunny California skies as part of Reserve Naval Mobile Construction Battalion 25's annual training exercises. Instead, 15 Seabees of the Wisconsin-based unit worked in snowy, windy and wet conditions as they completed 11 projects at the Naval Weapons Center.

Under the direction of Lt. j.g. Doug Tunison, the local project manager for NWC, a detachment of Seabee reservists, led by BUC Rodney Schultz from Sheboygan, Wis., spent two weeks at the Naval Weapons

Center completing eight Morale, Welfare & Recreation projects and three projects for other codes.

"The battalion actually spent their training time at San Diego," said Tunison, "but sent a number of detachments to nearby bases which had projects that needed to be completed. At the request of Public Works, a detachment was sent to NWC."

The visiting Seabees completed the following MWR projects:
•Created a sunshade at the north side of the Youth Center;
•Enlarged the Auto Hobby Center's parking area for vehicle storage;
(Continued on Page 11)

Commentary

NWC Rocketeer

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Phone: 939-3354. FAX: 939-2796
Commander
CAPT. DOUGLAS W. COOK
Technical Director
WILLIAM PORTER
Acting Public Affairs Officer
ALAN C. ALPERS

Editor
STEVE BOSTER
Staff Writer
PEGGY SHOAF
Staff Writer
KRISTINE SMITH

Photographer
PH3 CARY BRADY
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KUDOS

I wanted to express my appreciation for the way the employee access to the Blue Angels show was handled. I had a couple of families come from out of town who are ex-employees of NWC and I really appreciated being able to drive right up to the reserved parking without any traffic in the back gate and having the reserved seating. I thought it was very well done and appreciated the extra consideration to NWC employees and ex-employees.

KUDOS

I would just like to say that the handling of the air show this year was beautiful. It was easy to get in and easy to get out. The idea of having a second gate just for employees was wonderful. We really enjoyed it. Thanks.

QUESTION

As part of my job, I go to the Photo Lab in Michelson Lab three or four times a day and I am usually in a hurry. I am in a military vehicle. I used to be able to drive in the back, but we can't do that now so I drive to the front. There are a few parking places marked 15 minute parking, but for the past few weeks, they are always full. The parking

Pages from the Past



April 11, 1986

B.W. Hays, NWC Technical Director, gave a TD Award to Don Wicher for his work in the Warfare Analysis and Requirements Office. . . Dr. Glenn Roquemore of NWC's Research Department was among members of the National Research Council to tour Mexico City after the September earthquake. . . The Public Works Department reported three bird traps were stolen from the Center's north range area

April 10, 1981

John DiPol was honored with the Navy Distinguished Civilian Service Award as he retired after more than 30 years at China Lake. . . The Fire Division, headed by Lee O'Laughlin, took first place in a National Fire Prevention Association contest. . . Addresses and street names will change at NWC due to the proposed annexation of the housing area into the City of Ridgecrest. . . Leroy Doig III will star in CLOTA's *Bullshot Crummond*.

April 8, 1966

Dr. John Hollaway of NASA will address a meeting Southern California Federal-College Council here. . . NOTS Padadena Annex closed its NOTS Sylmar facility after eight months in that location. . . WACOM is sponsoring its 21st Annual Wildflower Show at China Lake. . . Federal employees were authorized a 3.2 percent pay hike by Congress. . . A new ALNAV cuts the length of involuntary extensions for enlisted members.

April 11, 1951

Robert Godett of China Lake took first place in a photo contest. . . RAdm. W.V. Fox heads a supply inspection team visiting NOTS this week. . . HM1 Frank Lassor was presented a Bronze Medal for his action against the enemy while in Korea. . . The 1951 Red Cross Fund Drive topped \$5,300, more than double the 1950 NOTS figure. . . The Rocketeer won first place in the March Armed Service Press Service newspaper competition.

The Skipper Sez...

lot is always full and I end up parking pretty far away. I don't mind the walk, but it takes me forever and I am in a hurry. I was wondering if we could get some spots that are for military vehicles only. It would really save some time. Thank you.

ANSWER

Thank you for your comments. I appreciate your feed back about the amount of effort it takes to perform your job when you have to go to Michelson Laboratory on several occasions during the course of the work day. In light of your input and upon further investigation, the Michelson/Lauritsen Laboratory coordinator (Code 033) has determined that others have to make a similar effort under similar circumstances. Presently, there are four (4) 15 minute parking spaces located at the front of the laboratory. To alleviate the problem you have identified, two (2) additional 15 minute parking spaces will be provided adjacent to the four (4) existing 15 minute parking spaces. Three (3) 15 minute parking spaces located at the end of the Protocol parking will also be designated. The additional spaces will more than double the current parking capacity to handle transitory traffic to the laboratory. Again, thank you for your input.

All China Lakers, including military personnel, civilian employees and their dependents, are invited to submit questions to this column. Such queries must be in good taste and pertain to matters of interest to a large segment of the China Lake community. Answers to these questions are directly from Capt. Douglas Cook. Please call NWC ext. 2727 with your question and state whether you are a military member, civilian employee or dependent. No other identification is necessary. There is no intent that this column be used to subvert normal, established chain-of-command channels.

China Lake Calendar

April 17

. . . IEEE Artificial Neural Computing at NWC Luncheon, NWC Seafarer Club, 11:30 a.m.

. . . SOLE Residential Switched Broadband Services Luncheon, 705 Ellis St., 11:15 a.m.

April 18

. . . Navy League Meeting, Carriage Inn, 6 p.m.

April 17

. . . CLWISE Luncheon, Carriage Inn, 11:30 a.m.

April 24

. . . Security Refresher Training, Center Theatre, 10 a.m. & 3 p.m.

April 22-25

. . . Navy/Marine Corps Relief Society Course, NMCRS Building, 9 a.m. to noon

April 25

. . . IEEE FUZZY LOGIC: Applications and Perspectives Videoconference, NWC Training Room, 9 a.m., to noon. Registration at 8:30 a.m.

Coming Events

May 6-7, Annual Safety Standdown

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

ROCKETEER CLASSIFIEDS

NON-MILITARY PERSONNEL that wish to place Classified ads in the ROCKETEER will be charged, PER ISSUE, as follows:

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

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

1 PERSONALS

Military and Civil Service: Write Congress to pass SENATE S-267, and HOUSE HR-431. Protect everybody's pension against NON-RESIDENT STATE INCOME SOURCE TAX. For information call 375-8096, 375-2634, 375-2878. (RETIRES TO ELIMINATE STATE INCOME SOURCE TAX)

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FIRST MONTH HALF OFF SPECIAL - 2BR, 2BA, \$450/mo., \$300 dep. pool & jacuzzi in courtyard. Water/trash, basic cable paid. 375-7642. Furniture Available. CALL ANYTIME!

LUXURIOUS 3BR, 2BA Mountain Cabin in Aspendale on Bishop Creek near Lake Sabrina. Year round access, fish, ski, hike, enjoy! \$125/night. Call 805-981-9828 or 619-873-3379.

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35 AUTOMOTIVE

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40 MISC. FOR SALE

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1982 HONDA CB900F, 35332 miles, excellent condition - \$1000.00; NEW Whirlpool Portable Dishwasher - \$200.00; BRAND NEW Double Size Headboard, cream color with gold trim - \$20.00; SEARS Best X-Large Swing set, 1 year old - \$100.00. Call 446-7499.

40 MISC. FOR SALE

Boys 20" Bicycle - good condition, new tires - \$25. 446-3589.

Chest freezer, old Kelvinator, needs work, stays cold but does not freeze. Free to whoever picks it up. 446-6239.

COOKAPOO, FEMALE, 2 years old. Black. FREE to good home. 446-7557, moving soon.

Fisher Turntable - \$20. Barstool - \$5. Baby-bath - \$5. Hiking boots, size 7 1/2, queen-sized comforter, electric frying pan, electric WOK, all \$10 each. 446-6239.

FOR SALE: Sofa, Chair, Love Seat - \$120/OBO. 446-6467.

NACO MEMBERSHIP, have paid on for 2 years. Unable to keep going. All we ask is take over payments. \$115.90/mo. or pay off. 446-6239.

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CSUC reveals schedule

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

CSCI 171: Computer Architecture (3 units)

June 1-2, June 22-23, July 13-14, Saturdays and Sundays; 0800-1600; Training Center. By Dr. Britton, CSUC.

Prerequisite: CS 26: Assembly Language Programming or equivalent or consent of instructor.

Scope: Internal processor architectures, basic combinational and sequential logic, codes, instruction sets and instruction decoding, memories and memory operation, arithmetic units, stack structures.

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

CSCI 172: Systems Architecture (3 units)

July 20-21, Aug. 10-11, Sept. 7-8, Saturdays and Sundays; 0800-1600; Training Center. By Professor Arnovick, CSUC.

Prerequisite: CSCI 171: Computer Architecture or equivalent or consent of instructor.

Scope: Definition of problems relating to interfacing processors and peripherals in computer systems. Channel and bus structures, bandwidth computations, performance evaluation, feasibility studies and methods of systems analysis.

Note: Cscuc bachelor's degree students must pass the Writing Effectiveness Screening Test (WEST) or an acceptable equivalent, such as the writing exam through Cal-State Bakersfield, before taking this course.

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

CSCI 273M: Data Base Management (3 units)

June 29-30, July 27-28, Aug. 24-25, Saturdays and Sundays; 0800-1600; Training Center. By Professor Im, CSUC.

Prerequisite: CSCI 151: Algorithms and Data Structures or equivalent or consent of instructor.

Scope: An introduction to data base management systems. Storage structures, data-definition languages and data-manipulation languages for relational, hierarchical and network approaches to data base management. For computer science majors.

Note: This course is required for all options in the bachelor's degree program in computer science through CSUC.

Comments

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

VX-5 looking for technical writer/editor

(Continued from Page 19)

Strong technical background in area of flight test/evaluation; proficiency in researching, writing, editing and publishing technical reports, test plans and related documents; and familiarization with Navy's current technical reporting style and common formats used by the naval aviation community. Note: If selection is

made at GS-11 level, selectee may be promoted to full performance level of GS-12 without further competition. Activity will not pay relocation expenses.

To apply, submit a completed SF-171 and current annual performance rating to CCPO Naval Base, Norfolk, VA 23511-5360 by 4 p.m. on April 25. If no rating is

available, submit statement to this effect and reason. Applicants who wish to be notified of action taken must submit CCPO NORVA 12330/12 Reply Card with their SF-171s. To ensure proper consideration, applicants should put the announcement number of the position applied for on their SF-171s.

Professor Costea visits

Professor Ileana Costea of California State University, Northridge (CSUN) will be on Center May 2 to advise students in the master's degree programs in applied mechanics and systems engineering offered by the school. For more information, call Helen at NWC ext. 2648.



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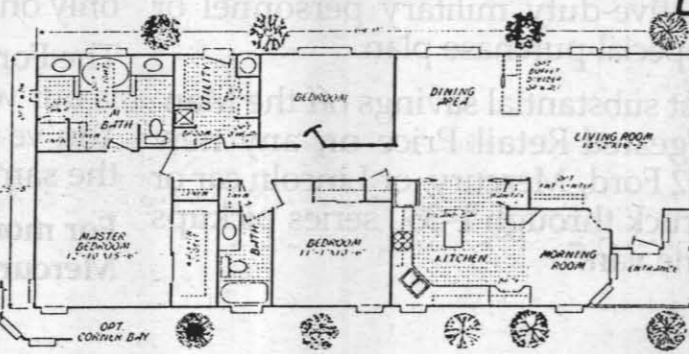
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Military News

Vampire named Supervisor of the Quarter

by Kristine L. Smith
Rocketeer Staff Writer

Travel to exotic ports and enjoy a career full of excitement! That's what posters promoting the Navy tell us. Recruiter's go even further by promising "it's not just a job, but an adventure!" And for Air Test and Evaluation Squadron Five's (VX-5) Aviation Structural Mechanic (Egress) First Class Miles P. Ernst, his 16 year career with the Navy has been nothing short of those familiar slogans.

Recently selected as VX-5's Supervisor of the Quarter for the First Quarter of Fiscal Year 1991, the sailor sings nothing but praises for his career in the Navy.

"I've had a lot of fun with my adventure in the Navy!" chuckled the sailor. And rightly so. His adventure has taken him around the world not only once, but twice. "I've been to Europe, Hawaii, Japan, you name it. . . I was able to 'see the world' and visit those promised exotic ports!"

Seeing the world through the Navy isn't the only thing that has

impressed Ernst. His career as an aviation structural mechanic has also been taken to the limits. He has pursued every school and training program the Navy offers regarding tactical aircraft. As VX-5's Environmental/Egress Branch Supervisor, he runs a workcenter staffed with 13 personnel who strive to maintain the air conditioning systems, ejection seats and environmental conditions of the aircraft.

"We ensure a workable environment exists for the pilots. If the air conditioning system doesn't work, they can't fly. The air conditioning systems cool not only the aircrew, but the computer systems within the aircraft." said Ernst. "If they didn't work it would endanger everyone."

Selected by his command for the distinguished honor, Commanding Officer Capt. Raymond A. Kellett's citation letter praised Ernst for "performance truly outstanding. . . He has distinguished himself through dedicated efforts toward maintaining an aggressive workcenter training program. The resultant increase in technical

ability of onboard technicians has resulted in maintaining a systems discrepancy rate consistently near zero. This achievement has directly contributed to the squadron's ability to continually exceed CNO's aircraft availability goals."

An avid fan of desert living, this is the Vampire's second tour in the high desert. Petty Officer Ernst has fond memories of his tour with the Naval Weapons Center from 1977 to 1979, when he served as part of the Search and Rescue Crew. Ten years later he joined VX-5 and considers it one of his best tours. "Working on over nine different types of aircraft is a considerable challenge. You've really got to know what you're doing!"

The Sailor of the Quarter, his wife, Kathy (a Naval reservist), and their three sons, Travis, 7, Joshua, 4, and Eric, 6 months, plan to continue in their exploration of Naval adventures. Looking back over their career in the Navy, they feel fortunate to have experienced a great deal of smooth sailing!



AD1 Miles P. Ernst

VX-5 civilian technical writer ends 33 year career



VAMPIRES HONOR DAME FOR OUTSTANDING SERVICE - VX-5 CO, Capt. Raymond A. Kellett presents Phyllis Dame, technical writer/editor, with the Sustained Superior Performance Award and a 30 year Federal Service Pin. Dame served 20 years with NWC and four with the test and evaluation squadron. Photo by PH3 Rob Foster

After 33 years of federal service, Phyllis Dame, technical publications writer and editor for Air Test and Evaluation Squadron Five (VX-5), retired November 30, although she continued to work for VX-5 as an intermittent employee until March 29.

As VX-5's technical writer, Dame researched, wrote, edited and published technical reports, test plans and related documents for more than 100 Chief of Naval Operations (CNO) projects in test at the squadron. In addition, she was the editor of the VX-5 *BAT BULLETIN*, a classified quarterly publication providing current information of ongoing operational tests and evaluation to the fleet. The publication recently received many accolades from units deployed in support of Operation Desert Shield/Storm for its exceptional information on weapons systems.

"She is one of the most professional, dedicated and motivated individuals I have ever worked with. We will miss her expertise!"

emphasized Lt. Kevin Baker, co-worker and friend.

Dame's federal career began as a GS-1 in 1952 in Summerville, New Jersey. She transferred with in the government to various parts of California between 1955 and 1967. In June of 1967, she

"She is one of the most professional, dedicated and motivated individuals."

joined the Naval Weapons Center and spent 20 years creating a career built on dedication and persistence. Although she began with the Public Works Department, it was when she moved to the Technical Information Department (TID) her prosperous career in technical writing began.

"I never realized I had a career rather than a job, until a few years ago," said Dame, "I've had some great role models to work with and I've received excellent training. The federal government has

been a very good employer for me."

After several advancements in TID, she transferred to VX-5 in 1987. Her outstanding talents and added motivation built a reputation for Dame that led to her receiving a Sustained Superior Performance Award, along with her 30 year Federal Service pin. Before retiring, she earned a GS-13 rating after 33 years of cultivated expertise.

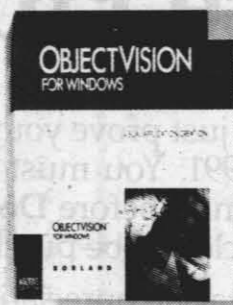
During her tenure, the technical writer worked many long hours and understood the urgency of the projects concerned. Yet, she always made time for professional and community organizations. She is currently the president of the Inyokern Parents Council and is a cub master for the Cub Scouts in Inyokern.

Asked at a recent retirement luncheon as to her intentions upon retiring, she said, "I'm going fishing! I'm going to take my grandsons and go fishing for a week!"

by Jon V. Hubbard, VX-5

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Michelson Lab waste ponds close as part of EPA cleanup

State and Federal environmental regulators have determined the Industrial Sewer System (ISS), which includes Mich Lab Industrial Waste Ponds, must be closed. That means all discharging into the ISS must cease and the ISS and ponds be closed and removed. The proposed schedule calls for complete closure of the system by 1995. The Environmental Protection Agency (EPA), Lahontan Region of the State Water Quality Control Board (LWQCB), and California Department of Health Services (DHS) are working with NWC's Environmental Project Office (Code 008) to ensure the Center comes into compliance with State and Federal environmental regulations.

The wastewater and sludge in the ponds do not pose a health threat. However, recent analysis indicated the presence of metals, some solvents and sulfide reactivity. Based on these results, the ponds are considered hazardous under State and Federal regulations.

In 1979, the ISS was constructed to collect wastes originating from Michelson Laboratories, the Engineering Laboratories, Solid State Laboratories, and the Public Works Compound (vehicle maintenance, utility shop, machinery shop and battery shop). Wastes discharged into the ISS include acids, alkali, heavy metals, solvents, photographic chemicals, cooling water, oil and grease and vehicle washwater.

The wastewater flows through the ISS pipeline and terminates at the ponds where the wastes are collected. Before entering the ponds, the wastewater first runs through an oil/water separator to remove free-floating oil, grease, and solids. The flow of effluent from the separator is then measured. The ponds are designed to receive a total flow of 30,000 gallons of wastewater per day, and present flow rates range from 20,000 to 30,000 gallons per day.

The Mich Lab ponds are two separate evaporation ponds with a total surface area of approximately 7 acres. The ponds are northeast of Mich Lab along Pole Line Road, in a fenced area. The ponds are lined by a top layer of soil, followed by a layer of a synthetic material of chlorosulfonated polyethylene, a 6-inch layer of sand, and another layer of polyethylene. Surrounding the ponds are six detection pits to monitor any leakage and four monitoring wells to detect if a release of wastewater to the groundwater were ever to occur.

In 1980, the first Federal law, the Resource Conservation and Recovery Act (RCRA), was enacted to regulate the disposal of hazardous wastes into surface impoundments, such as these ponds. Its purpose is to track hazardous wastes from their point of generation to their ultimate disposal, (i.e., from cradle to grave). RCRA regulations are authorized by the EPA and apply to handling and disposal of all hazardous wastes produced at NWC. Under RCRA regulations for operating permits and land disposal of hazardous wastes, the Mich Lab ponds are not in compliance.

Also in 1980, environmental regulations for managing and disposing of hazardous wastes were first enacted by the State of California and administered by DHS. DHS regulations are similar to the Federal RCRA law. Since California does not have EPA authorization to manage its own hazardous waste program, the same kinds of regula-

tions violated under RCRA are also violated under California regulations.

In 1984, California enacted the Toxic Substances Clean-Up Act (TPCA). It regulates hazardous wastes in surface impoundments and is administered by LWQCB. TPCA regulations prohibit disposing of hazardous wastes into surface impoundments without a variance. It also regulates the hazardous levels of sludge and wastewater in the impoundment; and, it regulates the technology requirements for impoundments, such as liners and monitoring techniques. Since the sludge in the ponds is determined to be hazardous, the ponds are not in compliance with TPCA regulations.

Working with these three regulatory agencies, Code 008 initiated studies in 1988 to evaluate the ISS and the Mich Lab Ponds. Results of these studies showed three major sources discharged the most toxic and most volume of hazardous wastewater into the ISS.

During 1990, Code 008 worked with one of those sources, the Plating Shop at Mich Lab, and installed a countercurrent rinse tank at their shop. This equipment resulted in reducing the quantity of wastewater from this source by 33%. The Plating Shop remains one of the major sources due to the toxicity of its wastes, along with two other major sources - the Circuit Board Shop and the Photo Lab. There are many other "smaller" sources connected to and discharging into the ISS.

In November 1990, LWQCB specified NWC must cease all discharge to the Mich Lab ponds within one year, and closure of the ponds must be scheduled or LWQCB will issue a Cease and Desist Order. In December 1990, DHS issued a Notice of Violation to NWC specifying the illegal status of the Mich Lab ponds. A similar notice from EPA is expected to be issued soon.

In response to LWQCB requirements, Code 008 prepared a plan to stop discharges into the ISS and to close the Mich Lab ponds. The first steps of the plan are to remove the major sources to the ISS by installing wastewater treatment equipment at each source. This work has already begun and is scheduled to be completed in April 1992.

The next step is to eliminate all the remaining sources discharging into the ISS. To do this, all sources connected to the ISS, including the Mich Lab complex and the Public Works Compound, must be identified. Code 008 will develop remedial methods for use at those sources. From drawings and utility plans, Code 008 estimates there are approximately 60 of these "smaller" sources. However, to be sure that complete and accurate information is collected, Code 008 is asking all of the Codes connected to the ISS to help. Any activity that is connected to the ISS is asked to contact Laurie Zellmer, Code 00811, 939-3411 (x384). Beginning this year, Code 008 will develop remedial methods for these "smaller" sources to be implemented between 1991-1994. The estimated cost for eliminating these "smaller" sources and installing remedial systems is \$1.6 million.

The final step of the plan is to completely close the ISS and the Mich Lab ponds. The estimated cost for this closure is \$10 million and is to be completed by 1995.

(Continued on Page 5)

Navy-Marine Corps Society hosts training

April 22 - 26, the China Lake Navy-Marine Corps Society (NRS) will host a training course. Whether you are interested in becoming an NES volunteer or would just like to learn more about Navy-Marine Corps policy and procedure, take advantage of this once-a-year opportunity.

Georgia Gould, former NRS budget counselor at El Toro Marine Base is the guest speaker for this course. The course will run from 9 a. m., until noon at the NRS building, 1811 Lauritsen Road, China Lake. The course is free of charge and complimentary child care will be provided. Register by calling NWC ext. 2921. Following Friday's class, a luncheon will be held.

During the week of the course, the NRS office will observe normal business hours Monday and Wednesday (10 a.m. to 2 p.m.), but will be closed Friday. As usual, call the NWC Quartermaster at NWC ext. 2303 in case of emergency.



Divine Services

Protestant	
Sunday Worship Service, East Wing	8:00 a.m.
Sunday Worship Service, Main Chapel	10:30 a.m.
Sunday School, 1008-10 Blandly & 1903-05 Mitscher	9:00 a.m.
Bible Study (East Wing), Wednesday (September thru June)	11:30 a.m.
Men's Prayer Breakfast, East Wing, Thursday	6:30 a.m.
Officers' Christian Fellowship/Christian Military Fellowships, East Wing, Thursday	7:00 p.m.
Islamic	
Jumaa Prayer (Friday at 1006 Blandly)	12 (noon)
Roman Catholic	
Sunday Mass, Main Chapel	9:00 a.m.
Daily Mass, Small Chapel	11:35 a.m.
Confessions, Weekdays	By appointment
Religious Education Classes (Sunday) (September thru May)	10:30 a.m.
1902 Dibb, 1002 Blandly, 1008-10 Blandly & 1903-05 Mitscher	
Jewish	
(NWC ext. 2851)	
Weekly Services (Friday - East Wing)	7:30 p.m.
Adult Hebrew Lessons (Saturday at 1004 Blandly)	3:00-5:00 p.m.
Religious Education (Sunday at 1004 Blandly)	9:00 a.m.-12 noon

Chaplain S. A. Casimano, LCDR, CHC, USN
 Chaplain G. L. Goodman, LT, CHC, USNR
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PC Lab Changes

As of April 1st, the PC Lab changed its name to Desktop Information Systems Center. This change is to reflect the changing roles of small computers in the workplace. The software library is also changing its rates for software lending. Instead of a flat rate for checking out any package, the charges will be 10 percent of the retail price, with a minimum of \$15 and a maximum of \$100.

Linking Excel Files Easily

Open both files, select the cell that will hold the information. Type an equal sign, click on the cell in the other spreadsheet. The path to the linked spreadsheet is entered automatically.

Mac IIci Cache Card Fix

If you have a MacIIci, check the cache card, if the serial number starts with AFxxxx, it's an old version and Apple recommends you upgrade. The new cards have serial numbers beginning with CFxxxx. This version resolves some problems in the original design. The serial number is located on an orange tag near the end of the card. The older cards can cause unpredictable performance.

by Donna Hanson

CLP enforce traffic regulations

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

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

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

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

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Waste system, ponds must be closed at NWC

(Continued from Page 4)

The ISS and the Mich Ponds are not in compliance with State and Federal regulations. Therefore, operation of this system is in violation of these regulations. NWC's Environmental Project Office (Code 008) is working with LWQCB, DHS, and EPA to develop and implement steps necessary for closure of the ISS and the Mich Lab ponds so NWC is compliance with regulations.

The plan Code 008 developed and has begun to implement is an aggressive one. Considering the level of funding required to carry out these projects and the time it will take to investigate and develop the most effective systems to replace the ISS and Mich Lab ponds, the plan is following a very aggressive schedule. However, the Center's Command strongly supports NWC's environmental issues and is

committed to ensuring complete compliance. Center employees are asked to help by providing information needed to carry out this plan efficiently, within funding constraints and on schedule. Even though the Center has been issued violation notices by these regulatory agencies, we are actively working with these regulators to comply with the laws to protect and improve the quality of our environment. By Code 008

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Wellness Corner



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It's true that good posture is a reflection of the way we look and feel about ourselves, but it's more than that -- much more. Good posture is one of the simplest things each of us can do to prevent muscle pain, stiffness, and tension as well as back "aches," pain, and injury. Good posture is actually quite simple -- it means keeping the three natural curves of your spine balanced while standing, sitting and lying down.

Standing

Contrary to what many of us were taught, good posture does not mean standing with shoulders thrust back, chin forward, and spine straight as an arrow. Actually, you're using good standing posture when your ears, shoulders, hips, knees, and ankles are "stacked" in a straight line. (Note: Your shoulders should be relaxed and your knees slightly bent.)

Sitting

While sitting, you can keep your spine balanced by again "stacking" ears over shoulders and shoulders over hips. To prevent lower back strain, place a lumbar roll (or rolled-up towel or sweater) between your lower back and the back of your chair. Keep your buttocks resting against the chair back, and if your feet don't reach the floor, rest them on a footstool or box.

Lying Down

When lying down or sleeping, try resting on your side in a modified "fetal" position (knees slightly bent toward chest) or on your back with a pillow placed beneath your knees. Sleeping with more than one pillow under your head can exaggerate your cervical (neck) curve and can place undue stress on your lower back. Choose a firm mattress for adequate back support.

Only three sessions left for security refresher

Wednesday, April 24, is the final day for the scheduled annual security refresher training at the Naval Weapons Center. For employees who cannot attend one of the regular sessions, there will be two make up sessions. The session on Monday, May 6, is at 10:30 a.m. and on Tuesday, May 7, it will be held at 3 p.m. Sessions are in the Center Theatre. NWC badges will be scanned as employees enter the theatre to ensure attendance is credited to the right person. For additional information on the annual security refresher training, call the Security Education Office at NWC ext. 2661.

Valley Fever a concern to desert area residents

Now is the time to think of "Valley Fever," notes the Kern County Health Department. Coccidioidomycosis, or Valley Fever, is an infection caused by inhalation of the spores of a fungus which grows in the soil of the southwestern United States. This fungus is very prevalent in Kern County. About 40 percent of those infected with Valley Fever have flu-like symptoms, such as chills, fever, loss of appetite, headache, muscle and joint aches, etc.

For further information on this disease, call the Kern County Health Department.

Navy-Marine Corps Society needs visiting nurse

Attention RNs! The Navy Marine Corps Relief Society needs to hire a visiting nurse for 10 hours per week. Interested applicants should apply at the Navy Marine Corps Relief Office on Mondays, Wednesdays or Friday from 11 a.m. to 2 p.m. For more about the job or salary, call 939-2921 and leave a message.

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VX-5 needs someone for technical publications writer/editor position at NWC

No. 0113/SS/CI, Technical Publications Writer-Editor (Physical Science & Engineering), GS-1083-11/12. Position is assigned to Commander, Operational Test and Evaluation Force, Norfolk, VA and located at Air Test and Evaluation Squadron Five, China Lake, Calif. Incumbent edits material submitted by operational test directors, engineers and technical writers. Determines whether material should be added/omitted in

order to fulfill project requirements or to convey the author's intended message. Writes publications based on personal knowledge of subject matter and on information gained through research, interviews, observation and notes or other material. **Qualifications:** Applicants must have the amounts of general and/or specialized experience required by the published qualifications standards. For general schedule positions, experi-

ence must be at a level sufficient to satisfy time-in-grade and quality level stipulation as of the closing date of the announcement. The following experience and/or rating factors are relevant. Applicants must have one year specialized experience equivalent to next lower grade level and must be eligible for a SECRET security clearance. **Rating factors:** (Continued on Page 22)

Get into the Spring of Things!

WOMEN
Cathy Daniels knit related separates. Choose from a variety of styles, prints and colors. Reg. \$24.-44. **Sale 33% off.***
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Selected Junior knit tops. Choose from crew neck, scoop neck and bow back styles. Available in assorted colors and prints. Sizes S-M-L. Reg. \$14.-26. **Sale 33% off.***
Entire stock of regular price Playtex foundations. Choose from Cross Your Heart, 18 Hour, Support Can Be Beautiful, and Super Look styles. **Sale 25% off.***
Selected Missy Spring sleepwear. Choose from a variety of beautiful styles, fabrics and prints. Orig. \$26. **Sale 50% off.**
Entire stock of socks, scarves, and belts. **Sale 33% off.***
Regular price fashion and basic jewelry by Tacoa. **Sale 50% off.***



MEN
Corduroy shorts. Elastic back styling in a variety of colors. All machine washable. Waist sizes 32-42. Orig. \$16. **Sale \$9.97.**
Haggard sport coats and Expandomatic dress slacks. **Sale 33% off.***
Entire stock of Van Heusen dress shirts. Solid, tone-on-tone, and fancy styles. Reg. \$21.-30. **Sale 33% off.***
Selected Young Men's crewneck T-shirts. Choose from assorted styles and colors. Orig. \$20. **Sale \$11.97.**

CHILDREN
Regular price Trimfit socks for Infants, Toddlers, Girls and Boys. Reg. \$3.00-4.25. **Sale 33% off.***
Her Majesty sleepwear for Girls. Sizes 4-14. Reg. \$12.-14. **Sale 33% off.***
Selected regular price knit shirts and pants for Boys. Sizes 4-20. Reg. \$8.-31. **Sale 33% off.***

HOME
"Popularity" terry towel ensemble by Fieldcrest. Assorted solid colors. Slightly irregular. Bath, hand and wash cloths. Values \$4.-8. **Specials \$1.97-3.97.**
"Blossom Time" crystal serveware by Mikasa. Choose from hostess bowl, divided relish tray, canape tray, set of 4 fruit bowls and square fruit bowl. Values \$32.-42. **Specials \$21.97-26.97.**

SPECIAL HOURS

Thurs., April 4	9:30am-9:00pm
Fri., April 5	10:00am-9:00pm
Sat., April 6	10:00am-6:00pm
Sun., April 7	12:00noon-5:00pm

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Secretarial opportunities

This column is used to announce secretary positions for which 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 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 1/2/3/4/5/8/9; 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.

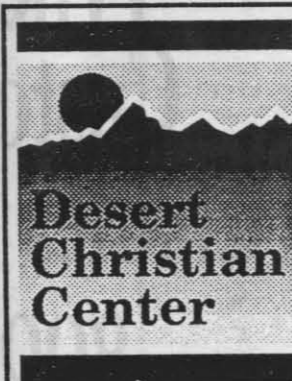
No. 35-011 Secretary (Typing) DG-318-1/2, Code 3518- Position is located in the Weapons Concepts Branch, Attack Weapons Department. Incumbent will provide secretarial support to the branch. Ability to use the Macintosh PC is desirable, but not required. Incumbent must be able to obtain and maintain a Secret clearance. Promotion potential to DG-2, but not guaranteed.

No. 39-004, Secretary (Typing), DG-318-1/2, Code 3945 - Position is located in Signature Measurements & Evaluation Branch, Electro-Optics Division, Intercept Weapons Department. The incumbent will provide secretarial support to the branch. Experience with IBM PC desired, but not required. Promotion potential to DG-2.

Non-appropriated funds

Following vacancies are not Civil Service positions. They are paid for from non-appropriated funds and are administered in accordance with policies established by DoD. Persons selected for these positions have no Civil Service status and are not eligible for appointment to positions in the Civil Service. Persons interested in applying for these positions should fill out a standard application form (SF-171). Applicants need not be presently employed in a Non-Appropriated Fund Instrumentality (NAFI) position, nor must they be employed at NWC. The SF-171 should clearly be marked "NAFI" on the top and should have the appropriate announcement number listed in Block 1 on the form. Completed applications can be delivered to Room 100, Personnel Building or be mailed to: NWC, Personnel Dept. (Code 226), ATTN: NAFI Service Team, China Lake, CA 93555-6001.

No. 22-9104, Bowling Equipment Worker, NA-4819-5, \$6.23 - \$7.30 per hour, Regular Full-Time. This position is located at Hall Memorial Lanes within the Morale, Welfare & Recreation Division. The incumbent will perform the following duties: overhaul, repair and inspect AMF equipment for a 10 lane house; clean and maintain bowling alleys; order and stock inventory repair parts and equipment; maintain logs and records; train other personnel in their duties as helpers and other duties as assigned. **Job Relevant Criteria:** Must have manual dexterity and mechanical aptitude and ability to follow detailed oral and written instructions. Must have formal training in bowling equipment maintenance and repair or at least 2 years experience working on AMF or Brunswick bowling equipment.



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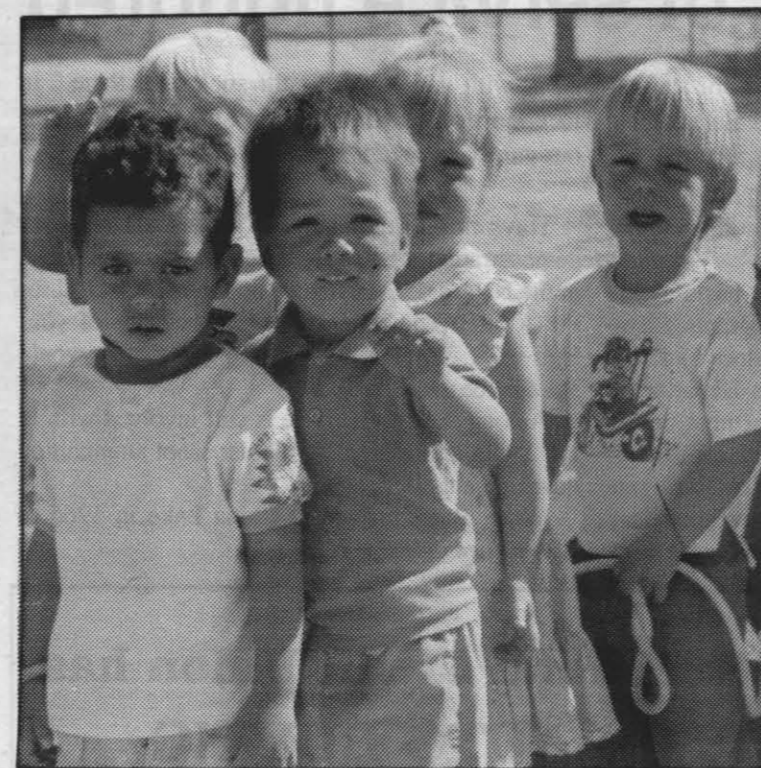
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APRIL . . . MONTH OF THE YOUNG CHILD -- Hanging on to the rope holding them together, children from the NWC Day Care and Youth Center celebrated their month. Over 300 children took a walk around the Naval Weapons Center.
Photo by PH3 Cary Brady



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NWC honors secretaries April 24

Each year, honor and recognition is given to the backbone of the business world -- the secretaries. With a national theme of *Blazing New Trails of the Nineties*, members of the Naval Weapons Center's Corporate Secretaries Board are busy planning events to celebrate Secretaries Day on April 24.

From 11 a.m. to 1 p.m., NWC secretaries will be honored at a luncheon at the Kerr-McGee Center. The gourmet meal will include boneless lemon chicken breast, new potatoes, assorted sandwiches on fresh baked bread, a fresh fruit platter, salad bar (including chopped chicken, chopped turkey, mixed cheese, homemade croutons, chopped tomatoes and onions), and dessert (fresh cheesecake with choice of blueberry, chocolate or cherry topping). Iced tea and coffee will also be served.

Tickets for the luncheon can now be purchased from department secretaries -- Rosemary Langley, Administration Building; Mary Ann Brown, Michelson Laboratory; Nelta Vechione, CLPL; Jennie Canfield,

Code 61, Hangars; JoAnn Griggers, Code 31, Airfield or Ann Wagner, Code 62, Range area. Tickets are \$10 each.

Marion Lapon, a people skills facilitator and career specialist, will give two talks on the future statistics of the workplace, Workforce 2000 predictions on how the clerical field will be affected, skills needed to stay current with today's needs and how to grow professionally, how to establish credibility, meeting objectives proactively and present information on the benefits of improving a person's skills. Both presentations will be held in Room 1000D of Michelson Laboratory. The first one is set for 8:30 to 10:30 a.m. and the second one is from 1:30 to 3:30 p.m. Secretaries are asked to notify their department secretary as to which presentation they plan to attend to ensure proper seating.

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SERVICE RECOGNIZED--Jack Bates was saluted by Capt. Douglas W. Cook, NWC Commander, for completing 40 years federal service. Bates has been a China Laker since 1966. He is currently working on a part-time basis as an engineering technician. Photo by PH3 Cary Brady

Forty years of service honored

Two years as an Air Force officer was the start of a 40 year federal service career for Jack Bates of the Ordnance Systems Department. Bates received his 40-year certificate from Naval Weapons Center Commander Capt. Douglas W. Cook at a recent Commander's Meeting.

Currently working on a part-time basis as an engineering technician with several programs, Bates has been a China Laker since 1966. Since 1967 he has been with the Ordnance Systems Department and from 1971 to 1985 as a charter member of the Gun Systems Branch. When he received the Technical Director's Award for work on the GAU--12 gun system used in the AV-8B, he told then Technical Director Burrell Hays, "I'm one of those people who

stuck with guns and I'll still stick with them." In fact, most of his part-time work today is with various gun systems programs.

Hays noted at the time "it was a firepower demonstration arranged by Jack Bates that resulted in the Navy's decision to develop the GAU-12/U for the AV-8B. The program started because of your hard work. Without it the 25mm gun system would not now be available."

Among the programs he is still involved with in the 25mm armor piercing tubular sabot ammunition development effort.

When Bates arrived at China Lake in 1966 to *(Continued on Page 11)*

Qualified employees sought to fill variety of positions

(Continued from Page 16)

No. 39-005, Interdisciplinary (General/Electrical/Physicist/Mathematician), DP-801/850/1310/1520-2/3, Code 39B9 - This position is located in the Advanced Technology Exploitation Office, Antiair Project Office, Intercept Weapons Department. The position is that of Weapon Systems Analyst. The incumbent will perform systems analysis of weapons systems and will be concerned with the measurement, analysis, prediction, and simulation of the environments to which weapons are exposed. Duties include the evaluation and interpretation of environmental data and the simulation of environmental models. Requires knowledge of radar principles and a broadbased technical knowledge of weapon systems, fleet operations, and mathematical analysis techniques for investigating and evaluating all facets of naval warfare. Experience with Microvax and Silicon Graphics computer systems is desired. A TOP SECRET clearance based on an SBI is desired. If incumbent does not have a Top Secret clearance based on an SBI, then incumbent must

be clearable. Promotion potential to DP-3. To apply send current SF-171 to Ben Adams, Code 39B9, NWC ext. 2626.

No. 64-027, Electronics/Mechanical Engineer, DP-855/830-3, Code 64404 - This position is in support of the EWTES Production Improvement Office, Configuration and Data Management Office (CADMO). Applicants must possess the knowledge of configuration and data management disciplines. Applicants should also have knowledge of and experience with Government Drawing Standards, problem solving techniques, and data analysis. The incumbent's position involves the following duties: serve as a technical staff specialist and consultant for the EWTES CADMO; review the long term CADM goals and make inputs to the five-year plan; monitor and guide the fulfillment of the CADM implementation plan; help maintain the EWTES CADM plan; review the project CADM plans and the CADM procedures manuals; maintain the specifications for and assign configuration baselines specifications; work with EWTES system engineers to define and review the

configuration requirements to establish the various baselines; review the technical aspects of proposals to establish or change the configuration baseline of any EWTES project; provide inputs to the development of all the CADM data bases and improvement to the portions already developed; maintain a schedule for and work with system engineers to periodically review the hardware configuration, software, drawing, publication, firmware, and data packages; provide updated inputs based upon reviews as to whether the information needs to be placed in historical file and/or archived; conduct configuration audits as directed; review proposed equipment and software development contracts to ensure a CADM program is included and the contract wording allows an orderly transition of configuration data to the CADMO. To apply, submit a current SF-171 to B. L. Hill, Code 64404.

SF-171s are due the following Thursday



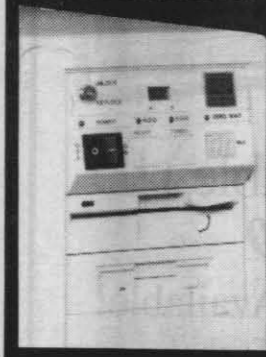
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Personnel News

Promotional opportunities

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

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

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

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

Notice Regarding Drug Testing Designated Positions

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

No. 22-001, Personnel Clerk/ Assistant (Typing), DG-203-A/12, Code 226 - 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 non-competitive 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.

No. 26-006, Maintenance General Foreman, WS-4701-13, Code 26601 - Position is Head, Construction/Project Support Group, Construction/Project Support Division, Public Works Department. Incumbent supervises, through subordinate supervisors, approximately 114 employees involved in planned jobs, minor alterations, major repairs, equip-

ment installation, project support, labor/mason work, chit work, and production control. Incumbent performs the full range of supervisory duties and responsibilities. **Job Relevant Criteria:** Ability to supervise through subordinate supervisors; ability to plan and organize work; knowledge of different relevant lines of work; ability to work with others; ability to meet deadline dates under pressure; ingenuity (ability to suggest and apply new ideas); knowledge and willingness to support EEO policies. Full performance level: WS-13. May be required to complete a supervisory probationary period. **SUPPLEMENTAL QUALIFICATIONS STATEMENT FOR MAINTENANCE FOREMAN IS REQUIRED.**

No. 26-007, Maintenance Foreman, WS-4701-12, Codes 2662, 2663 & 2664 (3 Vacancies) - These positions are at the first full supervisory level in the Multi-Trade Construction Shops, Construction/Project Support Division, Public Works Department. Incumbent plans sequence of operations and work steps of employees supervised. **Job Relevant Criteria:** Knowledge of technical practices; knowledge of materials; knowledge of pertinent tools and equipment; ability to supervise multi-trades; ability to interpret instructions and specifications, etc.; and knowledge of and willingness to

provide leadership in the establishment and implementation of Quality Assurance policies and disciplines during the planning, design, fabrication, testing and production phases of weapon systems, related equipment and components. **Job Relevant Criteria:** Knowledge of Quality Assurance policy and practices; knowledge of Acquisition processes; knowledge of and willingness to support NWC EEO policies and goals; ability to communicate effectively, both written and orally, with personnel on and off Center at all levels. Frequent travel is required at times. Incumbent may be required to serve a one year supervisory probationary period. Promotion potential to DP-3 but not guaranteed.

No. 36-003, Supervisory Quality Assurance Specialist, DS/DP-1910-3, Codes 36823/36824 - These two Section Head positions are located in the Quality Assurance Branch, Product Assurance Division, Engineering Department. These positions will be responsible for the supervision and mentoring of 10-14 senior level Quality Assurance personnel. The incumbents will provide leadership in the establishment and implementation of Quality Assurance policies and disciplines during the planning, design, fabrication, testing and production phases of weapon systems, related equipment and components. **Job Relevant Criteria:** Knowledge of Quality Assurance policy and practices; knowledge of Acquisition processes; knowledge of and willingness to support NWC EEO policies and goals; ability to communicate effectively, both written and orally, with personnel on and off Center at all levels. Frequent travel is required at times. Incumbent may be required to serve a one year supervisory probationary period. Promotion potential to DP-3 but not guaranteed.

No. 36-004, Supervisory Interdisciplinary (General/Mechanical/Electronics/Aerospace/Industrial Engineer), DP-801/830/855/861/896-3, Codes 36823/36824 - These two Section Head positions are located in the Quality Assurance Branch, Product Assurance Division, Engineering Department. These positions will be responsible for the supervision and mentoring of 10-14 senior level Quality Assurance personnel. The incumbents

will provide leadership in the establishment and implementation of Quality Assurance policies and disciplines during the planning, design, fabrication, testing and production phases of weapon systems, related equipment and components. **Job Relevant Criteria:** Knowledge of Quality Assurance policy and practices; knowledge of Acquisition processes; knowledge of and willingness to support NWC EEO policies and goals; ability to communicate effectively, both written and orally, with personnel on and off Center at all levels. Frequent travel is required at times. Incumbent may be required to serve a one year supervisory probationary period. Promotion potential to DP-3 but not guaranteed.

No. 35-012, Interdisciplinary General Engineer/Mechanical Engineer/ Electrical Engineer/ Electronics Engineer/ Aerospace Engineer/ Industrial Engineer/ Physicist- DP-801/830/850/855/861/896/1310-3, Code 35C4 - Position is located in the Tomahawk Production Project Office, Standoff Weapons Office, Attack Weapons Department. The incumbent will be the Guidance & Avionics Technical Manager for production support of the Tomahawk Cruise Missile. The incumbent is responsible for the technical management of all NAVWPNCEN Guidance & Avionics tasking. The duties include technical analysis and participation in engineering problems, review of production documentation, review of ECPs/deviations/waivers, and support at various contractor and sponsor reviews and technical meetings. Strong technical knowledge of missile guidance/avionics and recent experience in production disciplines such as documentation, manufacturing, and production contracts is desired. To apply, send a current SF-171 to Chuck Combs, Code 35C4, ext. 6547/1187. (Continued on Page 17)

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. 35-012, Interdisciplinary General Engineer/Mechanical Engineer/ Electrical Engineer/ Electronics Engineer/ Aerospace Engineer/ Industrial Engineer/ Physicist- DP-801/830/850/855/861/896/1310-3, Code 35C4 - Position is located in the Tomahawk Production Project Office, Standoff Weapons Office, Attack Weapons Department. The incumbent will be the Guidance & Avionics Technical Manager for production support of the Tomahawk Cruise Missile. The incumbent is responsible for the technical management of all NAVWPNCEN Guidance & Avionics tasking. The duties include technical analysis and participation in engineering problems, review of production documentation, review of ECPs/deviations/waivers, and support at various contractor and sponsor reviews and technical meetings. Strong technical knowledge of missile guidance/avionics and recent experience in production disciplines such as documentation, manufacturing, and production contracts is desired. To apply, send a current SF-171 to Chuck Combs, Code 35C4, ext. 6547/1187. (Continued on Page 17)

Transition from sailor to civilian life very easy

(Editor's note: following is a letter written by Capt. Robert Dropp, USN (Ret.), the former head of the Naval Weapons Center's Procurement Department and his wife, Priscilla.)

Transition from being a sailor in uniform to being a sailor in a swimming suit and tee-shirt has been very easy.

It's another lazy Sunday afternoon -- or is it Wednesday? Hard to tell, when you're on an endless weekend in Baja. Wall-to-wall blue sky, 80 degrees fahrenheit, low humidity, northerly wind at 10-15 knots. Whatever the day, it's "another beautiful day in Paradise."

Well, we did it -- started our cruising on our sailboat *Renegade*. We left San Diego just after Thanksgiving at our daughter's home at Camp Pendleton and sailed non-stop (eight days) to Cabo San Lucas. We sailed non-stop to get 100 miles off shore to get the best winds. We got a bit more than we bargained for during the first couple of days with winds up to 35 knots -- the only casualty was a foot-long tear in the mainsail. The last of the trip was a smooth "downhill" (winds aft) run.

We found Cabo San Lucas to be a "full-service" resort town -- still very small compared to Acapulco, Puerto Val-



ENJOYING THE EASY LIFE -- Capt. Robert Dropp, USN (Ret.) and his wife, Priscilla, are enjoying their retirement.

larta or Cancun -- but it's growing rapidly. The town has several five-star hotels, a large variety of restaurants and great sportsfishing and diving. As with most tourist cities, however, it is relatively expensive -- compared to other areas of Baja. Just about everything is within walking distance -- shopping, hotels, restaurants and beaches. We spent most of December in Cabo San Lucas and thoroughly enjoyed it.

Just before Christmas, we left for La Paz, sailing overnight into the Sea of Cortez against strong (typical) North winds. Thereafter we usually sailed by day and anchored at night. We spent almost a week in La Paz -- so we could watch the Bowl games on satellite TV. La Paz is the capital of Baja California Sur. It's a clean, well laid-out city with good hotels and restaurants and has a long and interesting history. La Paz is convenient. Just about anything you need (or that we gringo's think we need) is obtainable at reasonable prices. Stateside products and imports from Asia are readily available.

We have spent the winter cruising the islands and remote anchorages in the Southern Sea of Cortez and (Continued on Page 12)

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Diamonds

(Continued from Page 1)

identical to gem-quality diamonds used in jewelry. Physically, however, Harris is talking about thousands, if not millions, of microscopic diamond crystals, only a few microns thick for diamond coatings. Solid diamond domes would be a few millimeters thick.

There remain numerous technical problems in both diamond-coated domes and solid diamond domes for missiles. Now researchers are putting a large degree of focus on understanding the diamond growing process. Can films be grown faster? Can they be grown with higher optical quality? Can they be grown on a curved surface and more?

Still another challenge is getting the diamond coatings on the domes. "You can't grow diamond films on just any surface," commented Harris. "If you tried to grow diamond directly on current dome materials, the domes would decompose or shatter because of the heat involved in the process."

Diamond is synthesized in the lab by passing a mixture of methane gas (natural gas) and hydrogen through a high tempera-

ture region with diamond crystals being deposited on a heated silicon wafer about one centimeter away from the gas flow. The process is chemical vapor deposition.

Early NWC's efforts in diamond growing technology led to Technical Director's Awards for Curtis Johnson and Wayne Weimer of the Research Department last winter. Other members of the diamond research team are Mark Moran, Karl Klemm, Linda Johnson and post doctoral fellow Frank Cerio.

The current process in the Chemistry and Physics divisions uses a microwave chamber to heat the gases for diamond deposition.

Harris said there are other means of providing the heat source, noting hot tungsten light bulb filaments, electric arcs and

even a welder's torch can be used in the diamond growing process.

One of the crucial issues for diamond-coated missile domes is bonding diamond to the ceramic dome material and getting an optically smooth surface. Under a contract with NWC, Westinghouse Science and Technology Center has developed a process to possibly solve this problem.

Since a smooth silicon wafer is used as the substrate for diamond deposition, the diamond surface on the face of the wafer will be optically smooth, but the other side will be a rough surface of diamond crystals that would greatly scatter both IR and visible light. By putting a special glass layer, matching the diamond's refractive index, between the dome material and the diamond film and hot pressing this sand-

wich, the glass melts, filling in spaces between crystals making a smooth bond between the dome and the diamond film. Finally, a chemical process dissolves the silicon wafer and what remains is an optically smooth diamond surface, with almost no light scatter.

While the surface is optically smooth, the diamond films grown so far are not perfectly clear. Thin films are sufficiently transparent to be useful. Optical clarity must still be improved to use millimeter thick diamond for a solid dome. Such a dome will require a great deal of polishing. How to polish this extremely hard material and keep costs in line is another of the difficult technical questions facing researchers.

Another roadblock for solid diamond domes is growing material the right shape. Harris is

confident they can be overcome. But cannot predict how long it will take.

China Lake researchers will continue efforts to learn more about the growth process and how fast diamond can be grown without sacrificing quality. They will conduct environmental tests to see how thin diamond films resist rain, dust and thermal shock. And more research is needed on growing and polishing thick transparent material required for solid diamond missile domes.

More detailed information on NWC's work in diamond films is available from Dan Harris at NWC ext. 1649, Code 3854.

In the aviation Navy of the not-too-distant future, new technology may make diamonds a combat pilot's best friend.

Marines plans run/walk

(Continued from Page 13)

A variety of prizes will be given away at a drawing following the race. All participants will be eligible for the drawing and will receive a "MAD DASH" t-shirt. Entry fee is \$12 and extra t-shirts will be available for only \$6.50.

All proceeds will go to help support the local DARE Program and the Marine Corps Ball.

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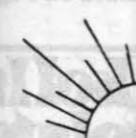
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Fly the friendly skies with the China Lake Flying Club

(Continued from Page 13)
I grabbed it. I have been around planes for 29 years and decided that I might as well learn how to fly them."
With more than 135 flight time hours, the Navy commander plans to use his new talent for recreational purposes as well as business. "I travel a lot in my job and the government will pick up my flying costs," he said.
Working in the F/A-18 Radar Development area at Armitage Field, Dunn noted he will use his license for purely recreational purposes. "Getting a license was just

something to do -- flying is just a hobby," he said. "My goal now is to continue to fly and build up some hours and eventually learn to handle higher performance aircraft."
The flying club currently has four planes -- two Cessna 172s, a Comanche and a Cessna 172XP.
Both pilots acknowledged being a little nervous during their solo flights. "It was definitely an impressive moment," Dunn noted, while Cdr. Seal said, "Dare I say it was exhilarating and challenging?" Both men agreed it was a memorable moment and fun!

But getting the license isn't all fun the pilots noted. "The written test was pretty extensive," Cdr. Seal said. "They thoroughly covered everything you needed to know," agreed Dunn.
The China Lake Flying Club is open to all DoD employees, their dependents, active duty, retired military personnel, their dependents and military reservists. For more information, call Margie at NWC ext. 4867.



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Visiting Seabees finish number of jobs at NWC

(Continued from Page 1)
•Constructed new wind breaks for the drinking fountains at the golf course and put in new drinking fountains;
•Repaired the car wash at the Auto Hobby Center;
•Constructed parking area for golf course equipment;
•Extended the overhead shelter for golf cart protection;
•Rehabbed the sunshade at the entrance of the Seafarer Club; and
•Built a radio controlled car race track near the enlisted barracks.



IT GOES HERE -- E02 Carl Perander and E01 Chuck Muench discuss plans for MWR's new radio controlled car race track located near the enlisted barracks. The two Seabees are part of RNNCB 25, a midwestern Seabee unit visiting California for their annual two-weeks training.

The Range Department (Code 62) benefitted from the Seabees' visit when they put up a three-strand barbed wire fence at Junction Ranch to protect against visiting burros and wild horses. In addition, the reservists extended the concrete pad in front of one of the department's shops.

The Seabees also helped the Engineering Department (Code 36), when they installed a Midas Ground Plane (a wire mesh on asphalt, used to test electro mag-

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Bates honored

(Continued from Page 8)
head the Small Purchase Branch, it was after retiring as a USAF major and spending five years in the private sector. However, it was familiar with China Lake, at least from the air, because his Air Force training during World War II included bombing runs on Naval Ordnance Test Station ranges while training at Muroc (now Edwards) Air Force Base.

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Capt. Dropp says hi!

(Continued from Page 9)

it has been a tremendous experience. We've been to dozens of ar... ages from Cabo San Lucas to Bahia Concepcion near Mulege. The scenery is spectacular. The very rugged mountains look like the Grand Canyon turned inside out. We've seen complete mountain-sides with all the colors of the Artists' Palette in Death Valley. Beautiful sunrises and sunsets. Cactus of all kinds. This is truly "where the desert meets the sea." Great fishing and diving in crystal clear water from quiet coves and clear sandy beaches. A wide variety of tropical fish. Of course, wildlife of all sorts abound -- birds, dolphins, seals, whales, etc. Lizards -- large and small -- are ever present when we go ashore. There seems to be no end of areas to explore and climb -- any class of climb you would care to challenge.

Although the whole area is generally very remote, the people we do run into are very friendly and helpful -- my Spanish is slowly getting better. We've never had to "lock our doors."

We keep up with current events with daily broadcasts from the Voice of America and the British Broadcasting Corporation -- both which provide good and balanced coverage of world events.

In summary, Baja has something for everyone. Remote desert, mountain and island locations. Opportunities to fish, swim, dive, sail, climb and camp. Many folks -- most from California, but from all over North America, bring their RVs south. Baja has big cities -- La Paz with its conveniences, small towns, fishing villages and resorts.

We are not sure if we are having fun yet, so we are sailing the Sea of Cortez and other areas again next winter -- just to be sure.

We miss our friends in China Lake. Having lived there for four very enjoyable and rewarding years gives us a good appreciation for our experiences here in Baja.

Don't forget your secretary on Secretaries Day, April 24

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Sports



IWV YOUTH BASEBALL ASSOCIATION SALUTES THE ARMED FORCES -- NWC's Color Guard presents colors while Audrey Bailey sings the National Anthem during Opening Day Ceremonies. Members of the NWC Color Guard are (left to right) ATAN Brad Justice, AMS2 Greg Hincke, AE3 Mike Plummer and ATAN Shawn Bailey. Photo by Peggy Shoaf

OTHTC plans 5/10K fun run

On Saturday, April 13, the Over the Hill Track Club will sponsor a 5 and 10K fun run. Sign-ups for this free event will begin at 7:30 a.m., at the NWC gym, with the race starting at 8 a.m. Come out and have some fun -- this race is a great way to tune up for the 10-miler in May. For more information, call Joe Oliver at 375-4108.

MAD DASH set April 20

Marines from the Marine Aviation Detachment (MAD) challenge fellow Marines and all China Lakers to conquer their fitness challenge on Saturday, April 20. The "MAD DASH," a 10K run and a 5K walk, starts at 8 a.m. at the Junction of McIntire and N. Dibbs Road.

(Continued on Page 15)

Two locals learn to fly

Whether for business or pleasure, two China Lakers recently experienced the thrill of obtaining their very own private pilot license. Cdr. Warren Seal, head of the Weapons Support Department, and Tom Dunn (USAF), a contractor with McDonald Douglas are the newest pilots with the China Lake Navy Flying Club.

In order to obtain a private pilot rating, a student must complete the FAA required minimum of 40 hours of flight time (the national average is 66 hours), pass a written test and pass a checkride given by an FAA designated examiner. The two China Lake Flying Club members were trained by Shel Simonovich, a certified instructor.

"This is something I have wanted to do for a long time," said Cdr. Seal. "The China Lake Navy Flying Club gave me the opportunity and

(Continued on Page 14)

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