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Solid Oak
End Tables
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Just \$69

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Home of Quality Oak
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of Drawers
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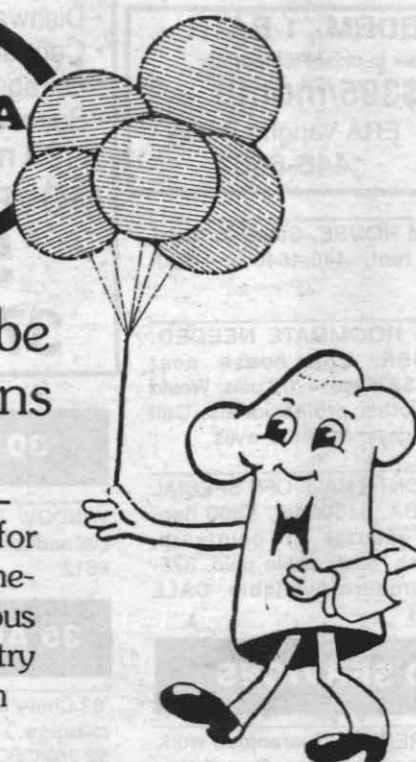
The place to save in Ridgecrest

375-1943

**JOHNS
PIZZA PASTA
&
HOMEMADE
ICE CREAM**

Peppy Roni will be
there with balloons
for the kids.

And don't forget to stop in for
some of Johns famous home-
made Ice Cream. 19 delicious
flavors to choose from. Or try
some of our nonfat frozen
yogurt. It's cool!
375-4407



FRI ★ SAT ★ SUN

Jan. 31, 1991

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**Weather
Report**

	Max	Min	Peak Gusts
Thurs.	60	19	8
Fri.	64	25	8
Sat.	63	25	9
Sun.	65	22	9
Mon.	66	22	8
Tues.	59	27	12

TD Seminar hosts oceanographer

Paul Kilho Park, an oceanographer in the National Oceanic and Atmospheric Administration (NOAA), Boulder, Colorado, will be the guest speaker at the next Technical Director's Seminar at NWC. Park will talk about *Applications of Satellite Remote Sensing to Marine Pollution Studies* in Room 1000D, Michelson Laboratory on Wednesday, Feb. 6, from 9 to 11 a.m.

Satellite technology can be an important tool in monitoring and studying ocean pollution. Sensors measuring light in the visible spectrum have been used to observe and characterize sewage sludge and industrial wastes dumped at sea. Oil slicks have been observed with Landsat, AVHRR and SAR imagery. Besides directly detecting pollutants, satellite sensors are useful for analyzing ocean processes that are influential in the fate of pollutants. For additional information about this seminar, call Debbie at NWC ext. 2246.

American Heritage Week plans begin

China Lakers will celebrate American Heritage Week the week of June 3-7. This will be highlighted by the Annual EEO Awards Ceremony on Wednesday, June 5 in the Seafarer Club. This year there will special training classes offered China Lake employees throughout the week and on Thursday, June 7, the ethnic food booths will serve lunch. Watch the *Rocketeer* for more details on this special week.

NWC Rocketeer

Naval Weapons Center, China Lake, California 93555-6001

Vol. XLVI, No. 4, January 31, 1991

Researchers present five papers

Twelve Propulsion Research Branch members focus on three key areas

Twelve members of the Naval Weapons Center's Research Department participated in research which was the basis for five papers presented at the 29th Aerospace Sciences Meeting of the American Institute of Aeronautics and Astronautics in Reno.

Klaus C. Schadow, head of the Propulsion Research Branch, said a team effort produced the papers on three key areas of propulsion research; solid propellant combustion stability, interaction of fluid dynamics with combustion interaction and plume signature studies.

Fred Blomshield of NWC and H.B. Mathes of Comarco collaborated on *Pressure Oscillations in Post-Challenger Space Shuttle Redesigned Solid Rocket Motors (RSRM)*. This paper compared current shuttle solid

rocket motor data with data from early motors to determine if there was a need to recalculate the maximum acoustic pressure amplitudes for the shuttle solid rocket booster motors redesigned following the Challenge accident.

Blomshield and Mathes noted two types of statistical tests were performed on the data from test of original rocket motors and the redesigned motors to determine if the change in mean maximum pressure oscillations was due to a change in the data or chance. Both tests indicated that no statistical change had taken place in the oscillatory pressure amplitudes for the four time intervals examined.

New predicted upper bounds on the pressure oscillations were computed based on both pre and post-Challenge motor data. Blomshield

also noted this methodology can be applied to other rocket motors as well.

Karl J. Kraeutle presented a paper co-authored by K. J. Wilson, M.J. Lee, L.A. Mathews, R.A. Stalnaker and K.C. Schadow on *The Effect of Particles on Afterburning and Thermal Images of Plumes*.

The objective of the paper was to describe and discuss the response of afterburning to the injection of aluminum oxide or carbon particles into the exhaust gases simulating rocket motor plumes.

The infrared radiation emitted by the hot exhaust gases was of particular interest to the research team. By adding reactive and non reactive particles to the gases, the team was

(Continued on Page 7)

MCPON visits China Lake sailors



MCPON WORKS FOR SAILORS -- Master Chief Petty Officer of the Navy Duane R. Bushey (center) and wife, Susan, (left, front) Ombudsman of the Navy, talk with Vickie Watts, (left) NWC Ombudsman and Amy Soyke, (right) VX-5 Ombudsman. Accompanying him is AVCM B.W. Keeler, NWC Command Master Chief, and Fleet Master Chief, U.S. Pacific Fleet, K. L. Lathrop.

would he visit China Lake? It's pretty much out of the mainstream and there are so many other larger bases where he could reach more sailors.

Well, this Master Chief has two rules of thumb when he decides where he will visit. One, he spends half of his time going to out of the way duty stations. "Places that are small and where I think sailors may be forgotten," commented Bushey, "the most

important part of my job is getting information out of sailors. I truly believe a sailor will do anything in the world for you as long as they understand why." And second, to try to keep travel well divided between the different Naval communities, the two coasts and overseas duty stations.

The senior enlisted person of the Navy is extremely sensitive about not going to places during popular times. "A lot of people

will go to Adak Alaska in the middle of summer when the salmon are running! Last year I went there in the middle of a snowstorm during February. Everybody said 'what in the world are you doing here, nobody comes to Adak this time of year.'" To which he replied, "That's exactly why I'm here!"

His message to sailors everywhere stems from three basic

(Continued on Page 10)

Many may stop and ask, why

Commentary

NWC Rocketeer

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QUESTION

Yes, I am a civil servant. I was wondering if there wasn't something that could be done about the stop sign on the northwest corner of Blandy and Lauritsen. It is faded so bad it is indistinguishable when you are going into it and has become a traffic hazard. Thank you.

ANSWER

The badly faded stop sign on the northwest corner of Blandy and Lauritsen has been replaced thanks to your concern.

Anyone noticing a traffic safety hazard pertaining to signage such as yield or stop signs can contact either Hal Lenderman, head, Civil/Structural Branch (Code 2636), at NWC ext. 3411, ext. 398 or Dana Hams, head, Transportation Branch (Code 2673), at NWC ext. 3411, ext. 251 for assistance. Both offices are within the Public Works Department.

All China Lakers, including military personnel, civilian employees and their dependents, are invited to submit questions to this column. Such queries must be in good taste and pertain to matters of interest to a large segment of the China Lake community. Answers to these

Pages from the Past



Pages from Past highlights NWC as recorded in the Rocketeer 5, 10, 25 & 40 years ago.

Jan. 31, 1986

NWC and all Navy functions came under a Secretary of the Navy imposed hiring freeze, designed to prevent more drastic actions under provisions of Graham-Rudman. . . Two department heads, Matt Anderson and Carl Schaniel traded jobs, with Anderson becoming head of Code 32 and Schaniel taking over Code 33. . . An anti-terrorism barrier device is undergoing tests at the SNORT facility.

Jan. 30, 1981

Dick Boyd, a 30-year China Laker was named to succeed John DiPol as head of the Range Department. . . Property owners of land under the Center's low-level aircraft approach corridors received letters from the Navy indicating fair market value appraisals were being made so NWC could acquire this land. . . After 36 years at China Lake, Rose Gonzales, who came here as a WAVE in 1944, announced her retirement. . . Volunteers finished refurbishing the Petty Officer

Lounge of the Enlisted Club.

Jan. 28, 1966

NOTS pioneering work in hybrid propellant rocket motors was reported in *The Danish Engineers Weekly* article titled "The Future of Hybrid Motors in Space Research". . . California Lt. Gov. Glenn Anderson was the guest speaker at the Community Council installation dinner. . . COMOPTEVFOR Radm. M.E. Dorvin paid an official visit to VX-5. . . Radm. S. R. Brown visited the NOTS Pasadena Annex.

Jan. 31, 1951

Bob Hope presented two shows in the Station Theater on this date, joined by Peggy Lee and Les Brown and His Band of Renown. . . The Navy Exchange went to a six-day-a-week schedule. . . Nine enlisted Navy members arrived at NOTS in the past week and 15 departed for new assignments. . . Gleb Spassky of the Underwater Ordnance Department wrote an article describing the department's test facility on San Clemente Island. . . Cdr. T.J. Doyle was named to head the NOTS Radiological Defense and Disaster Control Board.

questions are directly from Capt. Douglas Cook. Please call NWC ext. 2727 with your question and state whether you are a military member, civilian employee or dependent. No other identification is necessary. Since only one or two questions can be answered in the Rocketeer each week, anyone who would like to ensure getting an answer to a question may leave their name and phone number for a direct contact, but otherwise, this is not required. There is no intent that this column be used to subvert normal, established chain-of-command channels.

China Lake Calendar

Jan. 31

. . . Wellness Program's "Safescreen" mobile mammography unit, Michelson Lab parking lot, 10 a.m. to 4:30 p.m.

Feb. 6

. . . Technical Director's Seminar, 9 a.m., Room 1000D, Michelson Lab

. . . Basic Drug Education (Dope is for Dopes) presentation by KCSO, 1 p.m., Room 1000D Michelson Lab

Feb. 6-14

. . . Valentines Sale at NWC Navy Exchange

Feb. 7

. . . National Prayer Breakfast, 6 a.m. Seafarer Club, Ridgecrest Mayor Flo Condos, guest speaker, tickets at All Faith Chapel

Feb. 12

. . . WACOM luncheon, 11 a.m., Seafarer Club

Feb. 15

. . . Comedy Night, Seafarer Club, 6 p.m.

Feb. 22

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

Feb. 26

. . . Grand reopening celebration for NWC Gymnasium, 10 a.m.

Coming Events

March 13, PSD Transportation Seminar

May 6-7, Annual Safety Standdown

June 4-8, American Heritage Week Celebration

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

ROCKETEER CLASSIFIEDS

TO PLACE AN AD
CALL 375-4481

OR DROP IT BY
The Daily Independent!
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**ALL MILITARY PERSONNEL
& THEIR DEPENDENTS MAY PLACE
THEIR CLASSIFIED ADS
FREE OF CHARGE!**

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

Ads up to 5 lines.....	\$3.00
Ads up to 10 lines.....	\$5.50
Ads up to 15 lines.....	\$8.00
Ads up to 20 lines.....	\$10.00
Ads over 20 lines.....	\$10.00 & \$1.00 per line over 20 lines.

CLASSIFICATIONS

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

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

1 PERSONALS

GUITAR LESSONS - Study with GIT Grad and Instructor. Beginners to advanced. 446-6646 Ext. 591.

20 RENTALS

1 BDRM., 1 BATH
Walk in closet/refrigerator
\$395/month
ERA Vaughn Realty
446-6561

CUSTOM HOUSE, Close to base, room for rent. 446-4640 or 1-690-5161.

FEMALE ROOMMATE NEEDED: share 3BR, 2BA house near Heritage. \$275/mo. + 1/2 utils. Would like JP's/other professionals. Call 371-1630 days, 446-1327 eves.

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!

30 SERVICES

CLOCK REPAIR: Guaranteed work. Specializing in antiques, Grandfather, Cuckoo, Anniversary & Atmos. 375-5511, mornings & weekends.

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

20 RENTALS

RIDGECREST APARTMENTS

- 3 bedroom, 2 bath
 - Fireplaces
 - Dishwashers
 - Central Heat/Air
 - Garages
 - Special Military Incentives
- \$499 mo. + \$400 Dep.**
MOVE IN SPECIAL

\$499
371-3524

30 SERVICES

WINDOW TINTING - Auto, commercial and residential. Call Larry at 446-6612.

35 AUTOMOTIVE

'83 Chevy Impala - Good Runner, low mileage, A/C, AM/FM/CASS. \$2,250/OBO. 446-2740.

1987 FORD TAURUS LX - LOADED, low miles. \$9,000 OBO. Call 371-1630 days, 446-1327 eves.

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

35 AUTOMOTIVE

CAMPER SHELL & CARPET KIT with custom radio and boot. Fits '79 to '86 Dodge D50 Pickups. \$300. 446-7595.

40 MISC. FOR SALE

FOR SALE - Double stroller, excellent condition - \$60. Call 446-4432.

QUEEN SIZE SOMMA FLOTATION MATTRESS WATERBED with pedestal, drawers, headboard and liner. \$550. Original cost \$1,100. SHOWROOM CONDITION. 377-3366.

50 PETS/SUPPLIES

BLUE RIBBON GROOMING. Professional and Self-Service Pet Care Center. 375-5048.

55 REAL ESTATE

1500 sq. ft. AMERICANA HOME RESALE - 3BR, 2BA, for sale or lease. 346 E. Wilson. Corner lot, fenced, 2-car garage, patio, rear workshop, fireplace. 619-446-4382.

1989 FLEETWOOD - 24x56, 3BR, 2BA, \$35,000 set up on your lot, or \$32,000 if left in park. 700 S. Silver Ridge, Sp. 134. Two awnings and skirting included. 10% down to qualified buyers. Agnt. 209-834-1436 or La Casa Mobile Home Park, Assistant Manager has keys, Sp. 69.

Classifieds Get Results!

55 REAL ESTATE

3/4 ACRE WITH MOBILE HOME set up. Natural gas available, city water. \$18,000; \$6,050 down, bal. at 11% for 3 years. 375-1439.

HERITAGE VILLAGE - 2BR, 2BA, 1350 sq. ft. home. Beautifully landscaped yard, deck, and fireplace. Pool, spa, tennis courts. \$95,000. 446-6352.

The Daily Independent
375-4481

NWC Rocketeer

The 'Voice'
of NWC for all of
China Lake Community.

For more information
or to place a display ad
call

375-4481

The deadline for display
ads is Mon. 4 p.m.

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The

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**ACTIVE MILITARY PERSONNEL & THEIR
DEPENDENTS MAY PLACE THEIR
CLASSIFIED ADS FREE OF CHARGE!**

Community Events

Community Events

KRAJ 103.9 -- **THE HEAT** is putting together a show dedicated to the friends and families of our brave servicemen and women now serving in the Persian Gulf. The show will air Sunday, Feb. 3, at 2 p.m. A copy of the show will be sent overseas to the troops in Saudi Arabia. Call us now at 374-2151!

On Feb. 4, the Kern County Health Department, 250 W. Ridgecrest Blvd. will hold an immunization clinic from 8:30 to 11 a.m. and from 1 to 3 p.m. This clinic provides an opportunity for children and adults to receive needed immunizations.

All newcomers and not so newcomers are invited to attend a

workshop called "Welcome to Ridgecrest! Adjusting to a New Community" Feb. 4, from 6:30 to 8 p.m., at the Desert Counseling Clinic. This workshop is free to the public as a community service offered by the staff of the Desert Counseling Clinic. Please call 375-9781 to register!

A series of mini-shows at the Cerro Coso Community College Art Gallery will begin during the week of Feb. 4 with a sampling of art work from the Saint Ann's School art program. For more information, please contact Dick Benson at Cerro Coso Community College 375-5001, or Lori Boyd at Saint Ann's School, 375-4713.

On Feb. 5, 12, 19 and 27, the Kern County Health Department, 250 W. Ridgecrest Blvd., will hold low-cost pregnancy screening services from 8 to 11 a.m.

Community Connection for Child Care is presenting a complete series of parenting tapes over the phone. The tapes cover 25 different topics.

•Feb. 2 - Feb. 8 -- *Should I work?* A look at the emotional decisions around returning to work. To access these tapes call 375-0446

It's show time! Big John Strong's Variety and Magic Extravaganza will be at the Desert Empire Fair grounds on Friday, Feb. 8. Show times are set for 5:30 and 7:30 p.m. Free children's tickets will be available from a variety of businesses in Ridgecrest. Don't miss this edition of Big John Strong's variety and magic show!



MEMORIES FEATURES MANY CHINA LAKERS--Judy Ditzler (right) presents the Community Light Opera and Theatre Association's *Memories*, to librarian Elizabeth Shantler (left) of the Naval Weapons Center's Library. The memory book celebrates the silver anniversary of CLOTA and features many China Lakers involved with the community theatre group. Photo by PH3 Cary Brady.



How to get through to your kids.

You don't have to worry about missing calls because your phone's busy. With Call Waiting from Contel, you can receive calls even when there's someone already on the phone. And you know how some people like to talk. Call Waiting from **CONTEL** Telephone Operations

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Military News

Vampire NFO nominated for the Adm. Wesley L. McDonald Award

Each year junior officers in all service designators associated with Naval Light Attack and Strike Fighter Aviation contend for the Admiral Wesley L. McDonald Leadership Award. This award honors leadership, professional performance and integrity, and is co-sponsored by Commander, Light Attack Wing, U.S. Pacific Fleet and the greater Kings County Navy League. VX-5's Lt. Mark Dvorak, an all weather attack aircraft branch Naval flight officer (NFO), is one of sixteen officers who vie for the 1991 McDonald Leadership Award.

Dvorak was a project NFO for 10 Chief of Naval Operations (CNO) sponsored operational test and evaluation programs that included A-6E SWIP and operational flight program E-250 upgrades, FMU-140 Proximity Fuze, Skipper II weapon system, B-90 Nuclear Depth Bomb and Gator Mine weapon system.

The bombardier/navigator served as test director for the operational test of CNO's top priority OT&E Program, the Stand-off Land Attack Missile (SLAM). He also coordinated and conducted the A-6E and Night Vision Device integration evaluation.

Dvorak has served as project NFO for several F/A-18D programs including 89C operational flight program and F/A-18D night attack upgrade.

"Lt. Dvorak's vast knowledge and broad-based tactical and technical experience commands respect of both his peers and superiors," stated VX-5 Com-



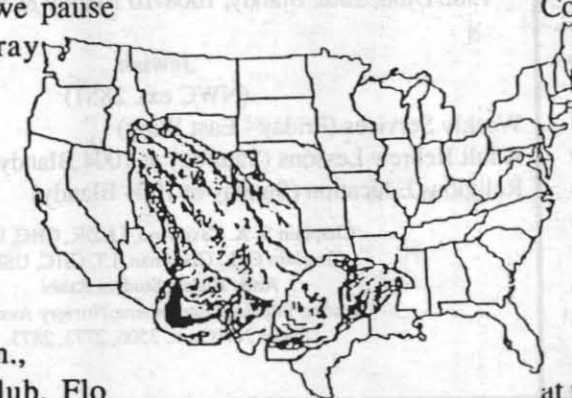
FLIGHT TIME -- Lt. Mark Dvorak suits up for a training mission in the F/A-18D. The bombardier navigator was recently nominated for the Wesley L. McDonald Leadership Award. Photo by Linda Sappington, Daily Independent

manding Officer Capt. Raymond A. Kellett. "His many contributions in the operational evaluation and exploitation of important threat weapon systems have had a major impact on fleet survivability, readiness and

warfighting capability." A U.S. Naval Academy graduate, Dvorak has been stationed at VX-5 since July of 1989. His wife, Jeanette and son, David, enjoy the "high desert way of life" with him in China Lake.

NWC National Prayer Breakfast set

Come join us as we pause with others to pray and rededicate this Nation to the moral and spiritual values upon which it was founded Thursday, Feb. 7, 6 a.m., at the Seafarer Club. Flo



Condos, Mayor of Ridgecrest, will be the guest speaker. Tickets for officers, Chief Petty Officers, and civilians are \$5, enlisted (E-1 to E-6) run \$4. Tickets are available at the All Faith Chapel.

CHAMPUS shares cardiac care costs

CHAMPUS now shares the cost of certain cardiac rehabilitation programs. The benefit is effective for inpatient or outpatient care received on or after Oct. 9, 1987.

Services and supplies are covered for cardiac rehabilitation programs provided by CHAMPUS-authorized hospitals and ordered by physicians as treatment for patients who have experienced the following conditions or events during the preceding 12 months:

- Myocardial infarction (heart attack);
- Coronary artery bypass graft;
- Coronary angioplasty (surgical reconstruction of coronary blood vessels);
- Percutaneous transluminal coronary angioplasty (use of a balloon catheter inserted into a coronary blood vessel to flatten plaque against the artery wall);
- Chronic stable angina (chest pain) -- subject to certain limitations.

Outpatient cardiac rehabilitation treatment is limited to a maximum of 36 sessions per cardiac event (usually provided at the rate of three sessions per week for 12 weeks). Patients who are diagnosed with chronic stable angina are further limited to one treatment episode (36 sessions) in a calendar year.

Initial evaluation and testing of a patient, and related professional services, may be cost-shared separately. They aren't included in the 36-session limit.

CHAMPUS will not share the cost of non-hospital-based cardiac rehabilitation programs; or programs designed primarily for lifetime maintenance, that are performed at home or in medically unsupervised settings.

Even though the CHAMPUS claims filing deadline has passed for medical care received in 1988 and earlier, the deadline will be waived for covered cardiac rehabilitation services that were provided from Oct. 9, 1987, through Dec. 31, 1988. Claims for such services provided in 1989 should be filed in time to reach the appropriate CHAMPUS claims processor before Dec. 31, 1990.

Claims for now-covered cardiac rehabilitation services provided on or after the effective date that were previously denied may be resubmitted or brought to the attention of the CHAMPUS claims processor for the state in which the care was given. The claims will be reprocessed, following the new policies.

CHAMPUS contractors in the various regions will begin paying cardiac rehabilitation claims in the next few weeks, as their computer systems are modified to process claims for the new benefit.

For more details, call the Branch Medical Clinic's health benefits advisor, Micki Edge, at NWC ext. 2911.

Blue Angels opens doors

Have you ever thought of becoming a Blue Angel? Now is your chance!

The United States Navy Flight Demonstration Squadron (Blue Angels) will be selecting two Navy demonstration pilots, a maintenance officer, supply officer and a Marine C-130 pilot for their 1992 team.

All interested officers should submit their applications no later than Apr. 30, 1991. Final selection will be in July/August 1991.

•Applicants for demonstration pilot should be tactical jet pilots

with 1500 hours of flight time and be career oriented regular Naval officers.

•Maintenance officer applicants must be qualified designated Aviation Maintenance Officers (O-3, O-4, CWO4) and be on or completed an operational fleet tour.

•Supply officer applicants must be a designated Naval Aviation Supply officer completing initial operational sea duty billet.

For further information contact Lt. Addicott at NWC ext. 2606.

NWC frockies move up



CLIMBING THE LADDER OF SUCCESS -- Three NWC sailors listen intently to their Executive Officer, LT. Kirk Addicott, explain how added responsibilities automatically accompany advancement to the next higher paygrade in the Navy. The newly frocked sailors are (left to right) RM1 Terry Foster, Code 87, MS2 Nancy Smith, Code 2141, and AD3 Curtis Anderson, Code 61211. Photo by PH3 Cary Brady



ANOTHER HITCH FOR OPPY -- NWC's AQ2 Michael H. Oppy, Code 61212, accepts a photograph of A-7 aircraft from Cdr. Thomas E. Massicotte, Code 61B. Both pilot and sailor have fond memories of past work together with the A-7 aircraft. The aviation fire control technician re-enlisted for another five years in the U.S. Navy. Photo by PH3 Brady

Single parents in Naval service must have workable dependent care plans

Washington (NES) -- Naval service makes unique demands on its members, such as being able to serve unaccompanied, on short notice, any place in the world. Members who have sole responsibility for a child, parent(s) or other dependents, or who have a spouse who may not be able to assume those responsibilities, must still be prepared for such assignments or deployments.

A recent NavAdmin message (036/90) on dependent care planning said operations such as *Desert Storm* show the need for sailors in this position to have workable dependent care plans. A well thought out dependent care plan will ensure the well being

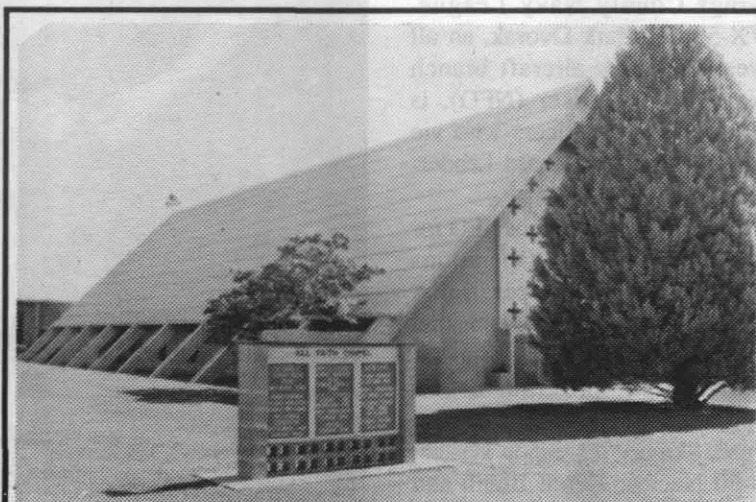
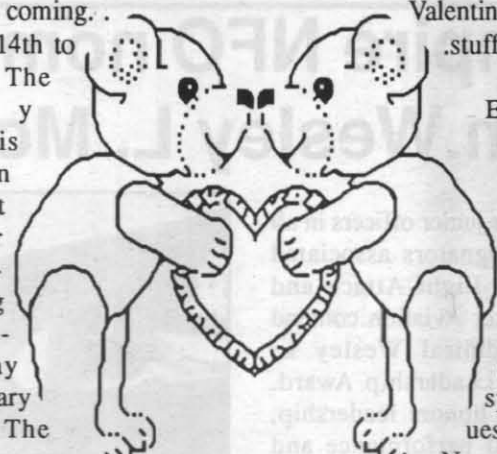
of loved ones in member's absence.

A recent Navy-wide survey indicated that 40 percent of women and 56 percent of men required to complete Dependent Care Certificates (OpNav 1740/10) have not done so. Most were not aware of the requirement. The survey also showed that many Dependent Care Certificates currently on file required review. Commands should advise members of the importance of developing sound plans for care in case of rapid deployment or unaccompanied assignment -- especially new parents, single parents and military couples.

Valentines Day sale at NEX

That special day when the special someone in your life can receive a wonderful gift from you is coming. . . February 14th to be exact. The Navy Exchange is offering an array of gift items for your sweetheart during the Valentine's Day Sale, February 6-14. The Exchange has perfume for the ladies and fragrances for the men.

You'll also find jewelry, lingerie, crystal, china, porcelain, candy and flowers. Here's a Valentine favorite. . . stuffed animals. And the Exchange is offering 20% off on all stuffed animals currently in stock. Details of all these special values are in the Navy Exchange Valentine's Sale circular!



Divine Services

Protestant	
Sunday Worship Service, East Wing	8:00 a.m.
Sunday Worship Service, Main Chapel	10:30 a.m.
Sunday School, 1008-10 Blandy & 1903-05 Mitscher	9:00 a.m.
Bible Study (East Wing), Wednesday (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 Blandy)	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 Dobb, 1002 Blandy, 1008-10 Blandy & 1903-05 Mitscher	

Jewish	
(NWC ext. 2851)	
Weekly Services (Friday - East Wing)	7:30 p.m.
Adult Hebrew Lessons (Saturday at 1004 Blandy)	3:00-5:00 p.m.
Religious Education (Sunday at 1004 Blandy)	9:00 a.m.-12 noon

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Self-study classes are available through NWC's Training Center

Eating for Endurance

Self-study course. By Ellen Coleman R.D., M.A., M.P.H.

Intended Audience: All NWC employees.

Scope: *Eating for Endurance* will have a strong appeal to endurance athletes and will be valuable to all people who realize that their on-going health/fitness is up to them. Nutrition used to be overwhelmed by misinformation -- the publication of this book indicates how far sports medicine has come in this area. The information in the book is crucial to today's athletes.

Habits, Not Diets

Self-study course. By James M. Ferguson, M.D.

Intended Audience: All NWC employees.

Scope: This book provides a 21-week behavioral program to learn how to control your weight. The clinical program from which

this text evolved was repeatedly tested and revised at the Stanford Eating Disorders Clinic in the Department of Psychiatry and Behavioral Sciences at Stanford Medical School and the La Jolla Eating Disorders Clinic in La Jolla, Calif.

The program is particularly effective in its presentation of techniques which fall into the general category of stimulus control. This program demands of participants a great deal of hard work. It can lead not only to the control of obesity, but also to a more rewarding inner-directed life.

Parenting Teenagers

Self-study course. By Don Dinkmeyer & Gary D. McKay.

Scope: This book deals with the challenging tasks of raising children today. It provides a practical, down-to-earth philosophy that can help parents understand

the motivations of their teens. Rapidly advancing social changes have made the job increasingly difficult and confusing. Compounding this are other factors -- societal pressure, well-meaning friends and relatives and conflicting theories presented in books and magazines, on television and through other media. The area of discipline with teenagers is a sensitive but important one; it requires careful consideration and a lot of follow-through. Learning to encourage and to communicate openly with teens is thoroughly discussed in this text, which may be used for parenting classes.

The Amazing Brain (2 hours)

Self-study course. By Robert Ornstein.

Scope: This audio cassette will give a lively tour of the brain, with one of the leading brain scientists of our time. Architecture through evolution. These two cassette tapes discuss how the brain's left and right hemispheres change with experience and knowledge and reveal unusual recent discov-

eries and phenomena about the human brain.

Lower Your Cholesterol Now! (1 hour)

Self-study course. By Scott M. Grundy, M.D., Ph.D.

Scope: This video was prepared for those who need to lower their cholesterol but feel

baffled as to how to go about it. The program provides clear answers and dozens of tips about label reading and saturated fat. It contains six short vignettes about specific food. Key points are reinforced by "quizzes," and is ideal for self-instruction or group programs.

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Secretarial opportunities

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

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

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

No. 31-006, Secretary (Typing), DG-318-1/2, Code 3183 - This position provides secretarial and administrative support to the Systems Engineering Branch. Knowledge and working skill on the Macintosh II, and related software is desirable. The incumbent is responsible for providing support to a team of engineers to include travel and security arrangements, timely submission of progress reports, and tracking the financial status of projects. Must presently have a Secret clearance. The full performance level of this position is DG-2. The area of consideration for this position is the 03 Directorate.

No. 38-007, Secretary (Typing), DG-318-1/2, Code 3894 - This position is located in the Research Department, Engineering Sciences Division, Warhead Dynamics Branch. We are located in a beautiful remote location, yet only 5 minutes to central site and Ridgcrest. Incumbent provides secretarial and administrative support for the branch Head, and staff. Additionally, the incumbent will assist elsewhere in the division when needed and work load permits. Ability to meet and deal effectively with others is highly desirable. Knowledge and working skill on the Macintosh SE/SE-30/11 is desirable. Only one position available.

CSUN advisor sets NWC visit

Professor Pettit of Cal-State University, Northridge (CSUN) will be on-Center Feb. 27 to advise current and prospective students in the master's degree program offered by the school in electrical engineering.

Those wanting an appointment to see Professor Pettit should call Helen at NWC ext. 2648.

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able, don't delay, act now by submitting your SF-171. The full performance level of this position is DG-2. The area of consideration is limited to the 03 Directorate. This ad includes information deleted from a previous ad. Previous applicants need not reapply.

No. 39-048, Secretary (Typing), DG-318-1/2, Code 3952 - This position is open to current 03 employees only. Incumbent will provide secretarial and administrative support to the RF Guidance Analysis Branch. Knowledge of and working skill on the Macintosh PC is desirable. Must be able to obtain and maintain a Secret clearance. Promotion potential to DG-2. Previous applicants need not reapply.

No. 39-057, Secretary (Typing), DG-318-1/2, Code 3921 - This position is open to current 03 employees only. This position is located in the Weapons Control Branch, Concept Development Division, Intercept Weapons Department. The incumbent provide secretarial support to the branch. Experience with the Zenith PC and/or Macintosh desired, but not required. Promotion potential to DG-2, but not guaranteed.

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New leave donors sought

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.

Mildred Haywood, Secretary, Code 6531 -- is in need of leave due to back injuries sustained in a car accident.

Barbara Miller, Fiscal Accounting Clerk, Code 2855 -- underwent surgery and is in need of leave.

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

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

Deborah Ann Ball, Computer Scientist, Code 3922 -- underwent abdominal surgery and is in need of leave.

George J. Wiederhold, Electronics Technician, Code 6236 -- has been hospitalized for two months due to severe depression.

Sandy Joyal, Procurement Assistant, Code 257 -- broke her elbow in four places and will be unable to return to work until the end of February.

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

Ernest Bigelow, Reliability Engineer, Code 3686 -- is giving full time care to his wife, who is critically ill.

Thomas Boyd, Visual Information Specialist, Code 3414 -- is off work and indebted for leave due to osteomyelitis of the spine.

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

Marlene Nelson, Paralegal, Code 006 -- underwent unexpected emergency surgery and is in need of leave.

DeWayne Davis, Engineering Technician, Code 3665 -- underwent surgery and is in need of leave.

Linda Lou Crosby, Television Production Specialist -- had knee surgery and is undergoing physical therapy.

Barry A. Smith, Electronics Engineer, Code 3931 -- is experiencing symptoms of meningitis and is indebted for leave.

Anita L. Rohloff, Clerk, Code 3193 -- is suffering from multiple sclerosis and bilateral optic neuritis. She will be unable to work until June.

Madeline Kay Blackston, Computer Security Specialist, Code 6447 -- is required to care for her husband who has terminal lung cancer.

Cheryl Mosley, Secretary, Code 3217 -- is in need of leave to care for her son who underwent surgery.

Lorraine Gunther, Supervisory Mathematician, Code 303 -- underwent emergency surgery and is indebted for leave.

Jo Miller, Mathematician, Code 3191 -- is in need of leave due to multiple medical problems.

Tamera Nelepovitz, Electronic Technician, Code 3573 -- is experiencing severe complications due to dependent diabetes and is indebted for leave.

Karen Linard, Industrial Engineer, Code 3291 -- underwent major intestinal surgery and is in need of leave.

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

George Petty, Physicist, Code 3924 -- was admitted to the Duke University Hospital on an emergency basis with the diagnosis of acute myelogenous leukemia.

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

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

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Library adopts hospital ship USNS Mercy

Supporting our troops in the Gulf is a concern for many who work at the Naval Weapons Center. When the crisis in the Gulf began and soldiers were being deployed last August, the Center Library adopted the Crews Library of the hospital ship, USNS Mercy, stationed in the Gulf. Since that time, regular shipments of library materials donated to the Center Library, in excess of their needs, have been

mailed to the ships library. "We try to send as many books, magazines and materials as we possibly can to our soldiers," said Elizabeth Shantler, librarian.

The supporting thoughts and packages have not gone unnoticed from those onboard USNS Mercy. The library receives letters of thanks for their continual care and concern. USNS Mercy's RP3 Michael V. Parker, wrote, "The materials sent are

most appreciated. . . your concern for all of us here in the Gulf area is heartwarming!"

The library currently has a Valentine scroll to send messages to the sailors onboard the hospital ship. Anyone wishing to stop by and add their words of warmth should do so right away! What only takes a few minutes out of your time will add to the well-being of our military personnel.

Due to the abundance of requests from

patrons wishing to have names of individual military personnel to send letters to, the Center Library has created a bulletin board entitled DESERT SHIELD MAIL CALL. The library has posted names and addresses of individuals who would be happy to receive mail. Likewise anyone is welcome to post names of friends and loved ones participating in Operation Desert Storm. NOW is the time to support our troops!

Capt. Cook speaks to FMA

Center Commander, Capt. Douglas W. Cook, will be the featured speaker at the Federal Managers Association's (China Lake Chapter 28) Installation Banquet to be held Tuesday, Feb. 19 at the Carriage Inn.

No-host cocktails start at 6:30 p.m., while dinner begins at 7 p.m. Menu selections include choice of top sirloin, chicken wellington, or blackened catfish. The price includes soup or salad, potato or rice, vegetable, roll and butter, beverage, tax and tip.

Tickets run \$14 for FMA members and retirees,

\$16 for nonmembers and guests. They are on sale through Feb. 15. For more information contact Richard Craney NWC ext. 3411-411, Carol Conrad, NWC ext. 2893, Jim McVay, NWC ext. 7611, or Dee Rorex, NWC ext. 3749.

The new chapter officers to be installed at the banquet are Joe Hibbs, president; Ralph Cox and Richard Craney, vice presidents; Skip Bennett, Secretary; Harvey Johnson, treasurer; Jacque Clawson, sergeant-at-arms; and Carol Conrad, Mark Rosenthal, and Jim McVay, directors.

Red Cross gears up for troops

Members of the American Red Cross are gearing up for their most extensive military support effort since the Vietnam era. As of noon, Jan. 4, 63 Red Cross workers were in the Persian Gulf area. The organization plans to have a staff of 154 in place by March 1.

"No matter what happens in the weeks ahead, the Red Cross will be there, supporting National Guard, Reserve and military members and their families in a variety of ways," said Fran Stewart, executive direction, Antelope Valley Chapter.

The Red Cross's emergency communications service is the only around-the-clock, around-the-world network that allows service members to stay in touch with the families about births, deaths and serious illnesses. As of Dec. 27, 1990, some 64,000 messages had been transmitted to service personnel between the Gulf and their members. This volume is about 13,000 communications per month above the normal service provided.

In addition to helping military personnel assigned to the Persian Gulf, the Red Cross provides shelter, food, first aid and child care services to American nationals leaving Middle Eastern countries because of the crisis. To date, some 1,500 Red Cross volunteers have worked the "freedom flights" for these people.

In addition, the local chapters are helping to ease the burden of

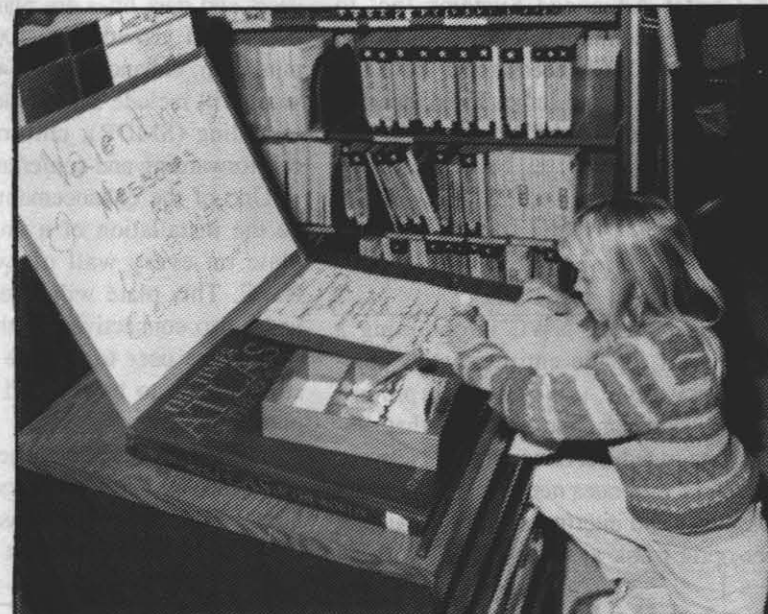
service members' families. They provide access to information on everything from mail delivery to helping children cope with separation from their parents. Interest-free loans and grants may be made available in the event of a family emergency and support groups have been organized for loved ones.

One thousand units of Red Cross blood is shipped weekly to the Persian Gulf. This backup to the military blood supply ensures that the blood services system will be up and running should it be necessary.

The American Red Cross is chartered by Congress to support

the U.S. armed forces. During World War I, Red Cross workers provided medical and recreational services for the military at home and abroad. They also pioneered the development of psychiatric nursing programs at veterans hospitals, made artificial limbs and helped rehabilitate amputees and blinded veterans.

Service members and their families who need emergency communications assistance, want to join a family support group or need referral services should contact the NWC Chapter of the American Red Cross at NWC ext. 3208.



VALENTINE MESSAGES TO THE GULF -- Tiffany Pyke adds her greetings to the Valentine scroll in the Naval Weapons Center's Library which will be sent to the hospital ship, USNS Mercy, stationed in the Gulf. Anyone can send a message on the scroll with a personal Valentine wish to the sailors in the Gulf. The Center Library adopted the Crews Library of the ship just after the crisis in the Gulf began. The library staff have sent boxes of books, magazines and materials to their adopted ship's library. Photo by PH3 Cary Brady

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Center moving toward new phone system

Efficient movement and management of information in all forms -- voice, data, image and video -- and in all transport methods and media, including local area networks (LANs), PBX, copper, fiber and microwave) are the goals of the new Center Telecommunications System (CTS) now being installed on the Naval Weapons Center.

A major effort has been undertaken by the Information Systems Group (Code 27) and Contel Advanced Systems Inc. to acquire a telecommunications system that will remedy NWC's needs for a more up-to-date system, noted James Field, head of the Telecommunications Projects Branch.

One enhancement is a universal wiring plate on every wall of every office.

"Simply stated, NWC is obtaining a replacement for the entire existing telephone system (station equipment, inside/outside plant and switches) that provides Integrated Services Digital Network (ISDN), incorporates network management subsystems and interfaces with the existing fiber-optic trunk system (FOTS) with an

eye to future integration with corporate data and video networks," Field explained.

CTS will allow a user to obtain on-demand voice and low-speed data communications with any location that has established connectivity. LANs, host computers, and voice/data equipment connected to CTS will be able to communicate with any population center, accessible resource or service on Center. Voice lines will accommodate 9,000 users with growth to 13,000 users and data lines are planned for 4,500 users with growth to 9,400 users. At a minimum, enhanced, up-to-date voice services will include station message detailed recording (SMDR), uniform numbering, call forwarding and conference calling.

One of the enhancements of CTS will be the installation of a universal wiring plate on every wall of every office at NWC. This plate will allow voice, data and video connectivity to the desktop and still be able to be reached at his regular phone number.

The system's dialing scheme will be the same throughout the network, just like at home. "This will be a pleasant change for NWC employees who must now know the

correct dialing scheme for whatever area

The new system is a real-time, highly reliable computer system.

they are in at the time," Field said.

The network management and configuration management of CTS will be centralized in the main site and will be automated to the greatest extent possible using the Logica Communication Control Center (C3). The C3 is a stand-alone system that operates on an AT&T 3B2/1000 Model 60 computer. The operating system is UNIX System V and the database application is Oracle RDBMS. The C3 will interface with the MSL-100 switch at the main site and will automatically perform traffic data analysis, fault monitoring and switch communications between the host and remote switches. The C3 will also track call detail, trouble reports, service orders, cable and equipment inventories; and will provide directory assistance, billing and reports on demand.

CTS includes mandatory security controls to support interactive processing for Level II or unclassified national security

related (UNS-R) protection for low-speed data networking. Protection up to the sensitive level will be provided for all on-Center voice traffic by preventing unauthorized access. The system will be compatible with STU-IIIs and STU-IIIIs.

"This system is a real-time, highly reliable computer," said Field. "Its allowable down time is only three minutes a year. It can run on its own power for eight hours and emergency generators will be available at all sites, in case of a power outage. Because it is a computer, we will know when a call began, when it ended, and from which number the call generated."

Field noted the new system was chosen not only for its capability to meet today's needs, but for its capability to meet communication needs in the future.



Test pilots plan 43rd reunion

Patuxent River-- The 43rd annual reunion and symposium of the U.S. Naval Test Pilot School will be held on April 27 in the Cedar Point Officers' Club, NATC Patuxent River.

About 500 alumni and guests are expected to attend the gathering which features presentations on current aeronautical topics as well as updates on major test and evaluation projects at the Naval Air Test Center. Cdr. T.J. Bernsen, TPS director, will host the event. Lt. M.G. Feuerstein is the reunion coordinator.

To receive invitations, TPS alumni, who haven't recently been in contact with the school, are asked to send their current mailing addresses to: Reunion Coordinator, U.S. Naval Test Pilot School, Naval Air Test Center, Patuxent River, MD 20670-5409 or contact the alumni clerk at (301) 863-4107 or AUTOVON 356-4107.

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NWC retirement time comes for Carl Austin and Robert Wolverton

Dr. Carl F. Austin, presently head of Code 2607, and past head of the Geothermal Program Office is ending his long NWC career on March 1. A retirement party in his honor is set for 6 p.m., Thursday, Feb. 21 at the NWC Seafarer Club. Tickets to the party,

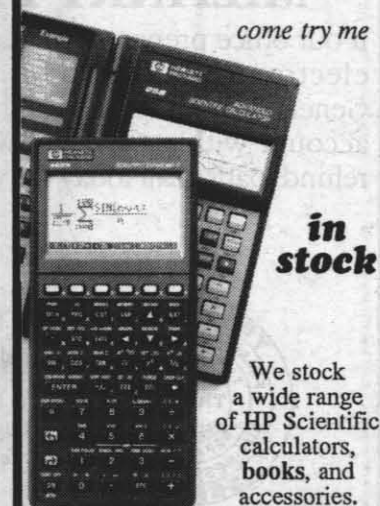
featuring a no-host bar and heavy hors d'oeuvres are \$6 per person. To buy tickets, make reservations or schedule a presentation, please call Carole Anderson at NWC ext. 3411-238.

After 33 years of Federal Service, Robert

L. Wolverton is retiring from the Naval Weapons Center on March 1. A retirement luncheon in his honor is scheduled for 11:30 a.m., Thursday, Feb. 28 at John's Pizza. For reservations, gift contributions or presentations, call Dianne at NWC ext. 6362.

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Promotional Opportunities

(Continued from Page 14)

ability to communicate orally; ability to communicate in writing. This position is open only to the 06 Directorate.

No. 64-013, Inventory Management Specialist, DA-2010-2, Code 6446- This position is located in the Range Services Branch, EWTES Division, Aerosystems Department. The position is located at the EWTES facility warehouse and is on a "first forty" work schedule, Mon-Thurs, 0630-1630. The incumbent provides warehousing support services for EWTES division including inventory data base management support, initiation of restocking actions, market surveys, researching of replacement or substitute part numbers, and development of electronic, electro-mechanical and electro-optic specifications adequate for radar procurement packages. Additional duties may include general warehousing functions, plant property, and calibration data base support.

Job Relevant Criteria: Knowledge of the principles, procedures, techniques, and practices followed in the performance of inventory management functions; knowledge of the organization, regulations, and methods of the overall agency supply system; ability to initiate and maintain effective personal contacts and relationships with representatives of other organizations, subject-matter specialists, contractors, and others; ability to analyze varied data, determine significant elements, factors, and considerations and synthesize findings in the form of inventory management judgments and determinations; ability to coordinate a variety of management actions, such as procurement, repair, and redistribution in solving material support problems.

UCLA Extension offers engineering

UCLA Extension is offering a wide variety of short courses this spring.

Classes are:
Synthetic Aperture Radar: Design, Processing and Applications, April 8-12.
Wafer-Level Reliability Testing, May 29-31.
Non-Impact Printing: A Technical Overview, June 4-6.
Microwave/Millimeter-Wave Monolithic Integrated Circuits, June 4-7.
Radiation Hardening of Electronic Systems, June 10-14.
The Global Change Research Program: Requirements, Technologies and Opportunities, April 15-19.
Liquid Crystal Displays: A Technical Overview, April 29-May 2.

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. 31-004, Interdisciplinary (General/Mechanical/Electrical/Engineering/Physicist/Mathematician/Computer Scientist), DP-

801/830/850/855/861/896/1310/1520-3, Code 3103 - This position is the Deputy for the AH-1W SSSA. The incumbent will support and represent the project manager in execution of all technical and administrative activities. The deputy project manager will be the technical leader of control/display subsystem and other technical projects as assigned by the project manager. The incumbent will direct a staff of professional employees. The incumbent will interface with various organizations within code 31, NAVAIR, several prime contractors, and other navy field activities. The incumbent will be responsible for preparation of airtasks and work unit assignments, interdepartmental task agreements, maintenance of program directives, monitoring and coordinating technical work, and preparing/making presentations to sponsors and NAVWPNCEN management. To apply send updated SF 171 to S.R. Underwood, Code 3103.

No. 39-061, Supervisory Interdisciplinary (General/Electronics/Aerospace/Mechanical Engineer/Physicist/Computer Scientist), DP-

801/855/861/830/1310/1550-3/4, Code 3944 - This position is Head, Air-To-Air Guidance Branch, Elec-

tronics Division, Intercept Weapons Department. The incumbent manages and provides technical direction for the design, development and evaluation of guidance and control units for the Sidewinder AIM-9R. Job relevant criteria: Knowledge of the design, analysis, test and evaluation of electro-optical guidance systems and subsystems; ability to coordinate/negotiate with Center, Navy, DoD and contractor organizations in defining technical and management objectives and controlling/reporting processes; ability to supervise an interdisciplinary professional workforce; ability to communicate both orally and in writing; a willingness to implement EEO policies and procedures. Must serve one year supervisory probationary period if not previously completed. Promotion potential DP-4, but not guaranteed. To apply, send SF-171 to Wayne Doucette, Code 394, ext. 4571.

No. 62-005, Interdisciplinary (General Engineer, Electronics Engineer, Physicist), DP-801/855/1310-2/3, Code 62221- This position is located in the Super-sonic Naval Ordnance Research Track (SNORT) Operations Branch or the Range Department. The branch provides the facilities, personnel, and equipment to operate the track ranges. The incumbent will perform as an Instrumentation/Telemetry/Electronic Systems Engineer in the branch's Instrumentation section. The incumbent will per-

form 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. Promotion potential to DP-3, but not guaranteed.

No. 62-034, Interdisciplinary (General/Electronics/Mechanical/Aerospace Engineer/Physicist/Mathematician/Computer Scientist), DP-

801/855/830/861/1310/1520/1550-3, Code 62C2- 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 include SPAWARs, Marines, Air Force, Army, private industry, and foreign military. Little or no travel is required. Position includes a good balance between desk work and field work. Incumbent must be able to communicate effectively with all levels of Center managers and work effectively with people. To apply, send an updated SF-171 to George Osterman, Code 62C2, NWC ext. 6808.

No. 64-006, Interdisciplinary (General/Electronics/Electrical/Aerospace Engineer/Computer Scientist/Mathematician/Physicist), DP-

801/855/850/861/1550/1520/1310-2/3, Code 6449- This position is in the Data Products Branch of the EWTES Division, Aerosystems Department. The branch develops and maintains software systems used in support of the test/evaluation of electronic counter measure devices and/or tactics in a free space laboratory. The schedule of work is nominally "first 40", Monday through Thursday, 0630-1630. The incumbent is responsible for analyzing processes, developing software requirements and designs, and implementing administrative and technical data bases to support EWTES Range Operations. Software engineering experience and knowledge are required. Familiarity and experience with Apple Macintosh and DEC VAX data base products, such as 4th Dimension and Ingres, is desirable. Incumbent must have experience reading and interpreting technical documentation. Incumbent must be able to work effectively with administrative and technical personnel throughout the EWTES organization. Incumbent must be able to obtain and maintain a SECRET clearance. Promotion potential to DP-3, but not guaranteed. To apply, submit a current SF-171 to Bill Taylor, NWC ext.

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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 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. 24-002, Police Dispatcher, DG-303-A/1/2, Code 2413 - Incumbent performs dispatching duties for the China Lake Police Division and maintains radio communications with NWC Guard Posts, Fire Division, Naval Investigative Service, and off-Center police agencies. Coordinates and controls radio traffic between police units; responds to requests for assistance by police units and/or notifies appropriate authority. Incumbent must be willing to work any one of three (3) shifts. Job relevant criteria: Ability to communicate orally; Ability to communicate in writing; Knowledge of radio communications; Ability to work in stressful situations.

No. 24-003, Police Officer, GS-083-3/4/5, Code 241 - These positions are located in the Police Division, Safety and Security Department. The incumbents will perform basic law enforcement duties under

the direction of a field training officer or a police supervisor. Routine cases, traffic control, traffic citations and investigation of NWC administrative violations may be handled independently. Incumbent must be willing to work any one of three (3) shifts. Incumbents are required to attend police training. Job relevant criteria: Ability to interpret, apply and enforce written law and administrative regulations; Ability to communicate in writing; Ability to communicate orally; Ability to work in stressful situations.

No. 27-014, Supervisory ADP Systems Acquisition Specialist, DP-301-3, Code 2741 - This position is that of Head, Information Resources Acquisition Management Branch, Information Resources Technology Support Division, Information Systems Group. As Branch Head, the incumbent directs a multi-disciplined

staff which defines requirements for Code 27 and NWC consolidated ADP hardware, software, and service contracts. The Branch staff also ensures that all necessary on-center and off-center requirements are identified (GSA, CICA, SNCR, etc.) and approvals acquired or waived prior to submission to Code 25. Incumbent would be required to evaluate contractor proposals for Code 27 and NWC consolidated contract efforts and other ADP contracts, as required. Branch members provide technical contract administration and monitoring for ADP contracts and NWC office automation and copier contracts. Support is also given to Center CALS and Imaging Technology application efforts and the operation of the Computer Support Service Center. Job Relevant Criteria: Knowledge of Acquisition Management Processes; knowledge of Federal Acquisition Regulations; knowledge of computer systems and software; knowledge of ADP hardware and software maintenance contracts; knowledge of affirmative action principles including a willingness to implement NWC's EEO practices and policies; ability to plan, organize, coordinate and manage a project. Promotion potential to DP-3 but not guaranteed. Previous applicants need not reapply.

No. 28-037, Supervisory Computer Scientist, DP-1550-3, Code 28411 - This position is Head of the Financial Applications Programming Section in the Financial Systems Branch, Financial Information Systems Division, Office of Comptroller. As Section Head, the incumbent directs an in-house staff and manages contracts to provide computer systems analysis and programming support for data processing applications within Code 28, particularly administrative computing applications on mainframe, minicomputer, and personal computer systems. Job Relevant Criteria: Knowledge of computer systems analysis methodologies and the NWC Financial System. Knowledge of affirmative action principles and willingness to actively implement NWC's EEO practices and policies. Ability to plan, organize, coordinate and manage technical efforts with application of TQM principles. Ability to interact effectively with technical and functional personnel at all levels. Ability to communicate orally. Ability to communicate in writing. The incumbent may be required to serve a one-year supervisory probationary period. Position is at full performance level.

No. 31-003, Electrical Engineering Technician, Electronics Engineering Technician, Engineering Technician, DP-802/856-3, Code 3103 - This position is the Deputy for the AH-1W SSA. The incumbent will support and represent the project manager in execution of all technical and administrative activities. The

deputy project manager will be the technical leader of the control/display subsystem and other technical projects as assigned by the project manager. The incumbent will direct a staff of professional employees. The incumbent will interface with various organizations within code 31, NAVAIR, several prime contractors, and other navy field activities. The incumbent will be responsible for preparation of airtasks and work unit assignments, interdepartmental task agreements, maintenance of program directives, monitoring and coordinating technical work, and preparing/making presentations to sponsors and NAVWPNCEN management. Job Relevant Criteria: Knowledge of aircraft/avionics systems, software engineering, operations flight program modification process, DID standards, project management and systems integration; ability to effectively communicate; ability to comprehend and coordinate a number of complex technical activities. Full performance level is DP-3.

No. 31-100, Computer Specialist, DS-334-1, Code 3134 - This position is located in the Models and Simulations Branch of the EW Avionics Division, Aircraft Weapons Integration Department. The Models and Simulations Branch designs, develops and maintains digital warfare simulations. The incumbent is responsible for conducting and managing the operations and maintenance of branch computing resources. Responsibilities include performing computer system management procedures, coordination of computer resources, developing and monitoring delivery orders for routine computer operations and maintenance, procuring ADP equipment, updating field maintenance contracts, developing and implementing facilities and security plans including secure computer facility support. Job Relevant Criteria: Knowledge of state-of-the-art computer network systems comprised of Sun Sparc and Apollo 4500 workstations, MacIntosh computers, and CDC Cyber 930 mainframe computers; knowledge of Appletalk, CDC-NET, TCP/IP, and Token Ring networks in a TEMPEST accredited environment; knowledge of the ADP procurement and computer maintenance procedures; ability to work independently; ability to deal effectively with people. The incumbent must be able to obtain and maintain a Top Secret clearance. Promotion potential to DS-3. Previous applicants need not reapply.

No. 61-007, Equipment Specialist, DS-1670-2/3, Code 6143 - Incumbent will perform duties that include: weapons assembly, functional checks/tests as required, weapon modification, and knowledge of weapons assembly procedures and components that make up a complete weapon. Applicants must understand and abide by safety practices and procedures for ordnance handling. Job Relevant Criteria: At the DS-2 level: Knowledge of the principles, practices, and procedures used in the design, procurement, construction, overhaul, maintenance, modification, and repair of assigned equipment; knowledge of the techniques employed in determining the extent to which items of assigned equipment are interchangeable and substitutable; ability to confer with contractors and representatives of other organizations of specific equipment problems; ability to review specifications and to eliminate restrictive requirements in a manner that will not lower the capabilities of the assigned equipment below operational requirements. At the DS-3 level: Knowledge of the maintenance and repair echelons within the agency and their capabilities; knowledge of primary manufacturers of assigned equipment and other sources of supply; knowledge of the principles, practices, and procedures used in the design, procurement, construction, overhaul, maintenance, modification, and repair of assigned equipment; ability to read and interpret blue prints, work orders, engineering change orders, and supply and production manuals; ability to arrange and conduct conferences and training sessions; ability to survey field organizations for effectiveness and prepare evaluative reports and recommendations of field maintenance functions, operations, techniques, and procedures. Promotion potential to DS-3, but not guaranteed.

No. 61-011, Support Services Specialist, DG-342-2/3, Code 6446 - This position is located in the Range Services Branch, EWTES Division, Aerosystems Department. The work week is a "first forty schedule", Mon-Thur, 0630-1630. The incumbent is responsible for all plant account and calibration equipment. Maintains terms and terms data bases, performs traditional inventory management responsibilities including barcoding, conducting tri-annual inventory, and maintaining personnel plant account responsibility files. Responsible for personnel transfer and check out of plant account items. Must also maintain inventory of unassigned plant account assets. Provides backup support for transportation representative and support service contracts. Job Relevant Criteria: At the DG-2 level: Ability to deal effectively with people; ability to organize work; ability to interpret and apply rules, regulations, policies, procedures, and instructions; ability to meet deadlines; ability to communicate orally; ability to communicate in writing. Promotion potential to DG-3, but not guaranteed. At the DG-3 level: Ability to deal effectively with people; knowledge of Federal procurement Procedures; knowledge of NWC plant account procedures; ability to work independently. (Continued on Page 15)

cedures for ordnance handling. Job Relevant Criteria: At the DS-2 level: Knowledge of the principles, practices, and procedures used in the design, procurement, construction, overhaul, maintenance, modification, and repair of assigned equipment; knowledge of the techniques employed in determining the extent to which items of assigned equipment are interchangeable and substitutable; ability to confer with contractors and representatives of other organizations of specific equipment problems; ability to review specifications and to eliminate restrictive requirements in a manner that will not lower the capabilities of the assigned equipment below operational requirements. At the DS-3 level: Knowledge of the maintenance and repair echelons within the agency and their capabilities; knowledge of primary manufacturers of assigned equipment and other sources of supply; knowledge of the principles, practices, and procedures used in the design, procurement, construction, overhaul, maintenance, modification, and repair of assigned equipment; ability to read and interpret blue prints, work orders, engineering change orders, and supply and production manuals; ability to arrange and conduct conferences and training sessions; ability to survey field organizations for effectiveness and prepare evaluative reports and recommendations of field maintenance functions, operations, techniques, and procedures. Promotion potential to DS-3, but not guaranteed.

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Research papers given

(Continued from Page 1)

able to study to changes in afterburning and concomitant effect on the intensity and type of IR radiation. Particle-free and particle-laden plumes were observed with thermal imaging and video cameras, allowing a thorough analysis of the resulting data. The test data were complemented by model calculations.

Kraeutle noted this research at NWC with gas generators rather than actual rocket motors allows for many more firings for appreciably less cost and control of important variables such as temperature of the combustion chamber, size and shape of the particles and of particle concentration in the chamber and exhaust plume.

K. Wilson developed the gas generator which was the experimental centerpiece in numerous projects. R. Stalnaker and B. Smith assisted in the safe conduct of a large number of tests.

Active Control of a Dump Combustor with Fuel Modulation was the topic of a paper presented by Ephraim Gutmark. This paper was co-authored by K.J. Wilson, R.A. Smith and K.C. Schadow. Gutmark noted Tim Parr and Donna Hanson-Parr provided valuable work at the Combustion Laser Diagnostic Laboratory.

This paper focused on the possibility of improving operation of ramjet combustors by making them more stable, releasing more energy and developing a wider envelope of operation.

With active feedback control of the combustor, researchers are sensing the performance of the combustion chamber by monitoring pressure and heat release and modulating fuel flow at a predetermined phase shift relative to the sensor with an acoustic driver.

Researchers were able to stabilize an unstable combustion process by reducing the combustion oscillations amplitude by 50 percent. They also extended the lean limit of the combustion by about 50 percent.

Gutmark and Wilson noted this active control was not applied to ram jet engines before. It was the result of five years work on understanding the effect of fluid dynamics on the combustion process.

In a paper presented by Jerry Finlinson research on *Measurements of Propellant Combustion Response to Sinusoidal Radiant Heat Flux* was discussed. The paper was co-authored by Donna Hanson-Parr of NWC and S.F. Son and M.Q. Brewster of the University of Illinois.

Finlinson described the research as attempts to measure fundamental properties of solid propellant combustion. It is, he noted, development of a basic research tool expected to be significantly less expensive than the present means using laboratory "T" burners. The current methods cost up to \$15,000 to generate response function data for a single propellant at one pressure.

The paper describes experimental and theoretical work to determine the response function of solid rocket motor propellants. It improves on earlier experiments by using a CO₂ laser beam as the heat source. The heat flux response for three propellants was measured and compared with theoretical predictions of response. Use of the laser made the research both faster and less expensive and gives a fundamental understanding of the physical processes involved.

The experimental device was designed and built by Finlinson and Richard Stalnaker. The laser and data software analysis was supplied by Donna Hanson-Parr. Testing was all done at NWC, while the University of Illinois co-authors did much the theoretical work.

Ken Yu, a post-doctoral researcher at NWC presented a paper titled *Combustion Enhancement of a Premixed Flame by Acoustic Forcing with Emphasis on Role of Large-Scale Vortical Structures*. The research discusses the ability to increase combustion intensity and changing the flame size by acoustic forcing.

Yu noted data indicated the intensity could be increased by up to 50 percent with a larger flame area. This could make it possible to use smaller combustors and obtain the same performance.

Research showed acoustical forcing the fuel flow may produce significant increases in overall combustion rate by generating periodic large-scale vortical structures. These orderly structures accelerate the entrainment and improve the mixing between incoming fresh reactants and and recirculating hot gases. Increase depends on the forcing frequency, forcing amplitude and flow operating conditions.

Co-authors were A. Trouve of Stanford and S. Candel of Ecole Centrale of Paris. Yu did the basic research while a post-doctoral fellow at Ecole Centrale.

Security requirements cause closure of west gates to laboratory complex

Due to implementation of THREATCON BRAVO, the west gates of the Michelson and Lauritsen laboratories will be closed to all normal vehicle traffic until further notice. The only exceptions will be for pick-up and deliveries, and then only if there

are no other ways available. Each instance must be cleared through the facilities coordinators office, Code 033, extension 1212/1213 and will be kept to an absolute minimum (15-30 minutes). Access will require someone to be with the vehicle at all times.

Golf carts will be available for handicapped employees at the north, east, and west gates. Keys will be maintained by the guard at the cart's location. For additional information contact Barbara Thrasher, Code 033, at NWC ext. 1212/1213.

Library provides some IRS forms

A variety of materials has been furnished to the Center Library by the Internal Revenue Service to help taxpayers prepare their federal income tax forms. Also available is the IRS publication 1132, which contains more than 90 reproducible tax forms that can easily be photocopied.

While the librarians are not tax experts, they will be able to direct the public to these helpful tax aids. Further tax information and assistance can be obtained through the IRS office in Bakersfield.

The Center Library is open

Mon. through Thur., 11 a.m. to 8 p.m.; Sun. 10 a.m. to 6 p.m.; closed Fri. and Sat.



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It's been FUN!!!

As we all know, every good thing must come to an end. And so it is for me. This is my final Compu-Chatter column. I have accepted a new position and will no longer be able to write this weekly column. Donna Hanson, of PC Lab fame, will be writing the column and answering your micro-computer related questions every week, beginning next week. You can continue to submit questions, comments, tidbits, etc. for the column to the PC Lab, Code 2743, c/o Donna.

Let me leave you with some of my favorite sage advice:

1 - Always back up your files, it will save you a lot of grief. Although most of us have to learn the hard way by losing a file or two before we accept the reality of back ups.

2 - Practice safe computing. There are virus detection applications available through the PC Lab for IBM PC and Macintosh computers. There really is no excuse for anyone to not be protected from known viruses. If you happen to be one of those misguided souls who have not protected your computer from viruses, contact the PC Lab today!

3 - Format floppy disks in the appropriate drive. You're begging for trouble if you don't.

4 - Contact the PC Lab when you need assistance in selecting software and hardware. The staff will help you define exactly what you need to do perform your specific task in the most efficient manner.

5 - Always logout of network accounts when you leave your computer. You never know who might come along while you're gone and commit unspeakable actions in your name. Be cautious!

6 - Always clean your laser printer and install a new fixing roller cleaner when you install a new toner cartridge. Remember, a clean printer is a happy printer.

Well, that's about it, folks. It really has been fun!

Happy Computing, Bob Beane

Drug education program ready in Michelson Lab on Wednesday

From 1 to 3:30 p.m. on Wednesday, Feb. 6, there will be a basic drug education presentation entitled *Dope is for Dopes* in Room 1000-D of Michelson Laboratory.

Sponsored by the NWC Speakers' Bureau and the Kern County Sheriff's Office (KCSO), Deputy Louie Allen will relate the four medical categories to the seven legal categories of drugs. Displays of real drugs (under glass), paraphernalia and pamphlets will be available. A vehicle or car stop, accompanied with field sobriety tests, will be simulated. In addition, a canine drug

Extra Rocketeers

Just because you missed the paper at the office doesn't mean you have to wait until Monday to read the *Rocketeer*. Each week, extra copies of the paper are in front of the Rocketeer office, 902 Nimitz, and at the Daily Independent office (on Ridgecrest Blvd.), for whoever wants them. Just stop by and pick up a copy.

Wellness Corner

Soon it will be time for the Fourth Annual Wellness Program Health and Fitness Assessments. These assessments are offered free of charge to all currently employed NWC employees, as well as active duty military and attached activities personnel.

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

Blood analyses include total cholesterol, high density lipoproteins, low density lipoproteins, triglycerides, glucose, and total cholesterol/high density lipoprotein risk ratio. Individual blood drawing takes approximately 5 minutes.

Lifestyles are assessed through a health risk

appraisal questionnaire. The appraisal evaluates heart health, health practices, stress, fitness, nutrition, safety, and wellness attitude. Survey booklets and answer sheets may be obtained at your blood draw or at the Training Center, rooms 210 or 212. You will need to bring your completed answer sheet to your fitness assessment appointment. Due to the limited number of survey booklets, we ask that you return them to Code 2243 so they can be circulated to other employees.

The physical fitness assessment includes: height, weight, body composition, blood pressure, pulmonary function, aerobic capacity, grip strength, abdominal endurance, spine and hamstring flexibility. Your results will be electronically scanned and you will immediately receive an 11 page status report as well as a LIFE Guide. Individual fitness assessments take approximately one hour.

Schedules will appear in next week's *Rocketeer*.

Hall trash, boxes pose problem now in some buildings

Due to increased security concerns, the Facilities Coordinator's Office is asking Naval Weapons Center employees to not leave empty boxes or bags of shredded paper in hallways. The janitorial staff is not contractually required to remove boxes. Employees are asked to take the responsibility to see this type of trash is placed in dumpsters. For large boxes, call NWC ext. 2268 with a job order number and the Public Works Labor Shop will remove them.

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February's birthstone is the amethyst. Until the 18th century, this lovely stone was extremely rare, and therefore expensive. When large deposits of superb quality amethysts were found in South America, the prices dropped due to increased supply.

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Sports

Youth hoopsters continue winter loop play

Action continued in the Youth Basketball League. Games are played in the Naval Weapons Center Youth Center. All divisions saw competition this past weekend.

Division I

Rockets 14, Suns 10

Chris Bachman paced the winning effort with 10 points. Matthew Wooley and Theresa Robinson were credited for strong defensive work in the win. Rory O'Neil and Aaron Smith notched four points each for the Suns, while Dirk Spoons added two points.

Division II

Rockets 42, Clippers 11

Pool hours set

The NWC Gymnasium's indoor pool is now operational. The new hours of operation are as follows:

Monday - Friday -- 5:30 to 7 a.m., lap swim; 10 a.m. to 1 p.m., lap swim; 3:30 to 5 p.m., Indian Wells Valley Swim Team; 5 to 6 p.m., 1/2 lap and 1/2 IWV Swim Team; 6 to 7 p.m., lap swim.

Saturday -- 11 a.m. to 1 p.m., lap swim; 1 to 4 p.m., open swim.

Sunday -- 12 noon to 1 p.m., lap swim; 1 to 4 p.m., open swim.

Soccer registration

Plans for the Youth Spring Soccer season is underway. Military members will be able to register their children, 5-14 years of age, the week of Feb. 4. DoD and private citizens may register their children from Feb. 11-28. The first game is scheduled for April 6, with the season ending June 1.

For more information, call the Youth Center at NWC ext. 2909.

Twelve points by Jamie Rugg and nine each from Mark Norlund and Chris Brown led the Rocket triumph. Darren Hodge, Stephen Ributts and Don Little also scored. Will Collier, Willie Eichenberg and Ray Hyles did all the Clipper scoring. They got good defensive efforts from Tiffany Corsey and Kenny Thompson.

Bulls 42, Spurs 29

Behind a 16-point boost from Jason Bull, the Bulls stopped the Spurs. J. Miller added 14 tallies, while Matt Galydard and Pete G. also scored. Pete grabbed eight rebounds. David Rollingson's 18 points paced the Spurs' attack and Josh Roberts added six. Zack Hilleweart, Cale Falk,

James Tam and Elizabeth Karczewski had good games.

Mavericks 47, Jazz 13

Eighteen points from Michael Bachman and 13 more from Samelson led the winning team. Justin Nelson, Matt LeBarre, Aaron Bailey and Josh Bower also scored. The Jazz picked up six points from Jason Vanderslice and Andrew Poliska added four and Patrick Goodman had three tallies.

Division III

Celtics 30, Kings 26

Balanced scoring paved the way to victory for the Kings. Toby Adams and Tim Jacobs had eight points each while Pat

Ross and Jimmy Adams had five apiece and Tom Koelsch added four. Sam Miles led the Kings' effort with 14 points. Jeff Randolph added eight and Leni Winterly and Behrang Goodarziard added two each.

Pistons 51, Lakers 45

Dan La-Hage's 33-point explosions led the Pistons win. Andrew Dubois chipped in 14 points while Daniel Peoples and Randy Martin had two tallies each and hit the boards well. The Lakers had an exciting game with Brooke Fryar's 26 points leading the way. Lisa O'Neil and Jay Norlund added eight points each and Chris Maki and Jimmy Hutmacher did the rest of the scoring.

NWC BASKETBALL--Members of the Naval Weapons Center's basketball team are able to play in the newly renovated Center Gym. The improved facility will have the official reopening ceremony at 10 a.m. on Tuesday, Feb. 26.

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Washington Scene

Smithsonian unlocks part of Black History

(Editor's note: The following is a part of a series of articles the Rocketeer will print for February: Black History Month.)

Machinery to produce or improve the breads, margarine, rice and peanut products you eat, the cotton clothes and the shoes you wear, the steam heat that warms buildings, the signal lights that regulate traffic, the trains and subways you ride on, and hundreds of other products and systems evolved from the minds of African Americans -- slaves and freedmen.

But until recently, most scientific contributions of black men and women were locked in the dungeons of history. Slaves were not allowed to patent their inventions. The Smithsonian Institution, colleges and universities, and other organizations have begun to uncover and highlight African Americans' inventions and innovations that have enhanced the living standards of all Americans.

In 1988, the Smithsonian's Anacostia Museum in Washington, D.C., displayed what,

according to Portia P. James, was most popular exhibit in its history -- *The Real McCoy: African American Invention and Innovation, 1619-1930*. It is now a traveling exhibit. James, the exhibit's curator, has published a book of the same title.

"Because 'the Real McCoy' used to be such a popular phrase, we wanted people to know it derived from the work of a black inventor, Elijah McCoy (1843-1929). He invented the hydrostatic lubricator used primarily to lubricate locomotive engines," said James. "When inspectors inspected engine lubrication, they would ask the engineer, 'Is this the real McCoy?' His lubricator was the standard for excellence."

Born in a community of escaped slaves in Colchester, Ont., Canada, McCoy studied mechanical engineering in Edinburgh, Scotland. But when he returned to the United States, the only job he could get was as a locomotive fireman. Blacks were not allowed to be engineers. "But that proved beneficial since the job exposed him to the problems of lubrication and overheating,"

said James. "He patented his first automatic lubrication device in 1872 and continued to improve it until it became the best available -- 'the Real McCoy.'"

In 1923, Garrett Morgan patented an automatic traffic signal that was widely used until the advent of electric traffic lights, in which part of his invention was used. Before Morgan traffic signals had only two positions: red for stop and green for go. He added the yellow caution light.

"Morgan's story has a dramatic twist," said James. "He invented an early form of the gas mask he called a 'safety hood' and tried to sell it to the Army during World War I, but they wouldn't buy it because it wasn't suited for the battlefield. In the middle of the night on July 25, 1916, a huge underground explosion erupted in a tunnel workers were building under Lake Erie near Cleveland. Police and fire teams went to rescue the men, but neither came back.

"Someone said they heard of this black guy who had a safety hood that allowed people to survive in places with poisonous

fumes," said James. "They got Morgan out of bed, and he and his brother brought the survivors and bodies out. Many fire departments around the country were using his invention. But after they saw the picture of this black man wearing a strange contraption on his head rescuing the white men, they all cancelled their orders. They didn't know the inventor was black.

"Most inventions are superseded, but elements of Jan Matzeliger's (1852-1889) shoe-lasting-machine technology survive in the industry today," said James. "Matzeliger's invention revolutionized the shoe-making industry. His machine was dubbed the 'Niggerhead' machine by disgruntled shoe industry workers, who saw in it yet another threat to their livelihood."

Before Matzeliger's invention, shoe-lasting was done by hand. It was the painstaking task of smoothing, pulling and shaping the leather into the shape of a human foot. The United Shoe Machinery Co. bought his patents. It is still one of the biggest shoe production companies in the country. Matzeliger died in poverty, but his stock in the company became valuable.

He willed it to friends and the First Church of Christ in Lynn, Mass., according to James.

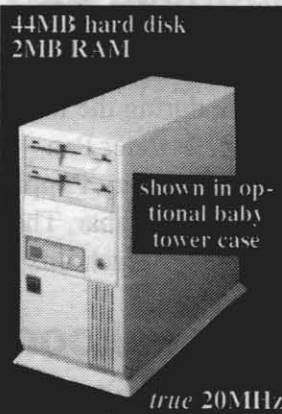
Mention Thomas Edison, George Westinghouse and Hiram Maxim and electricity comes to mind. But not too many people have heard of African Americans Lewis Latimer (1848-1928) and Granville Woods (1856-1910). They too made significant contributions to the emergence of electrical lighting. Woods was known as the "black Edison" for his many inventions.

Latimer patented a method for bonding carbon filaments for light bulbs while working at Maxim's U. S. Electric Lighting Co. in 1881 and invented a method for producing carbon filaments in 1882.

"Whenever you look at early black history, there are so few records, photographs or documents available," said James. "It's sad how a whole history was not documented and we have to scramble around to find a way to document it. We have a microfilm reel of more than 500 early African American inventors and innovators. Many of them invented military weaponry and flying machines." *Armed Forces Information Service*

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Bombs in the mail rare; but still possible here

Washington (NES). . . The likelihood of you ever receiving a bomb in the mail is remote. Unfortunately, however, a small number of explosive devices have been mailed over the years, resulting in deaths, injuries and destruction of property.

Keep in mind that a bomb can be enclosed in either a parcel or an envelope, and its outward appearance is limited only by the imagination of the sender. However, mail bombs have exhibited some unique characteristics that may assist you in identifying a suspect mailing. To apply these factors, it is important to know the type of mail normally received by your organization.

- Mail bombs may bear restricted endorsements such as "personal" or "private." This is important when the addressee does not normally receive personal mail at the office.
- The addressee's name and/or title may be inaccurate.
- Mail bombs may reflect distorted handwriting or the name and address may be prepared with homemade labels or cut-and-paste lettering.
- Mail bombs may have protruding wires, aluminum foil or oil stains and may emit a peculiar odor.
- Mail bombs may have an excessive amount of postage stamps affixed.
- Letter-type bombs may feel rigid, appear uneven or lopsided.
- Parcel bombs may be unprofessionally wrapped with several combinations of tape used to secure the package and may be endorsed "Fragile; Handle With Care" or "Rush: Do Not Delay."
- Parcel bombs may have an irregular shape, soft spots or bulges.
- Parcel bombs may make a buzzing or ticking noise or a sloshing sound.
- Pressure or resistance may be noted when removing contents from an envelope or parcel.

If you are suspicious of a mailing and unable to verify the contents by address or sender:

- Do not open the article.
- Isolate the mailing and evacuate the immediate area.
- Do not put in water or a confined space such as a desk drawer or filing cabinet.
- If possible, open windows in the immediate area to assist in venting potential explosive gases.

If you have any reason to believe a letter or parcel is suspicious do not take a chance or worry about possible embarrassment if the item turns out to be innocent. Instead, contact the Naval Weapons Center Police at NWC ext. 2709 for professional assistance.

Computer makers host trade show in Ridgecrest

Concept Development, Inc. and Rugged Digital will offer a trade show focused on real-time computing at the Carriage Inn (901 North China Lake Blvd.) from 7:30 a.m. to 4 p.m. on Feb. 26.

The 20 manufacturers participating represent the leaders in their fields and will exhibit their abilities which include Integration platforms, VMEbus products, Futurebus products and High speed subsystems.

Registration is free and all are welcome to attend. RSVPs are requested and may be made by calling Margie Davis at (800) 733-1811.

Safety: Annual standdown set for May 6-7

Safety Standdown is a Center-wide annual event in which all departments observe a 4-hour standdown from regular operations in order to review safety and health policies, regulations, general procedures and practices, and to attend selected events, most of which are sponsored by the Safety Program Office (Code 2405).

Traditionally, the Safety Standdown was presented following the holiday season, in early January. After some investigation, we found that this was not the optimal time of the year to present Standdown. So the month of January is quickly coming to a close with little mention of Standdown. In an effort to increase the effectiveness of Standdown activities in the future, our annual Safety Standdown has been moved to the month of May. This year's Standdown will be running on May 6 and 7 1991.

Aside from the change in running date, other changes in Safety Standdown will be obvious in 1991. As in the past, a variety of general seminars, designed for all employees, will be presented. But additionally, there will be more specialized topic seminars offered. These are designed for certain populations, and are presented to facilitate meeting some training requirements. Specialized training will include: Laser Safety, Laboratory Safety, Supervisors' Safety, and others.

Supervisors will find that they can meet their annual safety training requirement by attending one of the "Supervisors' Safety"

seminars that will be running during Standdown. Ten to twelve "Supervisors' Safety" seminars will be presented during the Standdown to facilitate training Center supervisors in only two days.

Another change this year is the incorporation of some security briefings along with the safety topics presented at Standdown. Specifically, Security Awareness Annual Refresher Make-Up Training Sessions will be presented in conjunction with Safety Standdown. Ron Hedenskog, Naval Weapons Center (NAVWPNCEN), Naval Investigative Service (NIS), will be presenting the topic of espionage. If you are unable to attend your annual Security Awareness Briefing during the regular sessions in April, plan on attending one of the make-up sessions during Safety Standdown.

Since May is the NAVWPNCEN's "Wellness Month", the Wellness Program will be offer-

ing some presentations during the Standdown activities. These seminars are provided in an effort to enhance the health, as well as the safety, of our personnel.

Some of the general interest Standdown presentation topics you can look forward to, include: "Seat Belt Safety" presented by Jack Ware, nationally known for his dynamic seminars and video series entitled "Room to Live"; "Safety Motivation", a comedy based motivational seminar presented by Shaun Henigan, a professional comedian working with the company "Lettuce Amuse U"; and, "Back Injury Prevention" by Dr. Roger Stephens from the Ergonomics Department of Occupational Safety and Health Administration (OSHA).

More seminar topics, schedules of events, information, and advertisements will be published as the event date approaches.

If you have any questions, or need further information contact extension 2315 or 2362.

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Navy offers advice on personal safety

Current events in the Persian Gulf region and elsewhere require that all Department of the Navy (DON) personnel and their dependents be reminded of procedures to minimize their exposure to international terrorism.

While there is no absolute defense against terrorism, there are steps you can take to minimize the possibility of you and your family falling prey to terrorists. The single best piece of advice for avoiding a terrorist attack is, don't be predictable: vary daily routines to avoid patterns; leave home and work at different times and alternate routes to and from work.

While not all-inclusive, the following procedures should be followed, depending on location of assignment and place of residence:

Social:

-When outside the United States, avoid restaurants, clubs, and other facilities that are known to cater to U.S. military and civilians. Avoid large gatherings at locations readily identified as patronized by Americans.

Awareness:

-Be alert to strangers on or near military facilities, including housing areas. Report suspicious activity to security personnel. At NAVWPNCEN contact the NWC police at extension 3323.

-Children should be warned not to leave school with strangers under any circumstances.

-Don't open the door to strangers. Confirm identification of unfamiliar persons prior to permitting them access to your residence.

-Identify and locate safe havens such as the police and fire stations, and other guarded public places, should the need arise to seek refuge.

-Maintain a low profile. Don't advertise that you are an American or member of the U.S. Navy or Marine Corps by wearing or carrying items with distinctive flags or logos. Military uniforms should not be worn except as prescribed.

-Avoid isolated areas and dark streets.

-Remain clear of civil disturbances and demonstrations.

Vehicle Safety

-Park in a secure area, roll up all windows, and lock all doors. -Before getting into a vehicle, check beneath it, look for wires, tape, or anything unusual.

-Ride with seatbelts buckled, doors locked and windows closed.

-Be alert for surveillance or indicators of danger while driving or riding in a vehicle.

-Don't congregate in unprotected areas while waiting for liberty/shuttle buses or other public transportation.

At Work

-Review building evacuation procedures and mustering locations to reduce targeting opportunities.

Travel

-Wear nondescript civilian clothing. Avoid distinctive apparel such as cowboy boots/hats, large belt buckles, jackets with military patches, or distinctive military items.

-Minimize time spent in public airport terminals. Don't loiter in public sections of the airport, especially waiting rooms and baggage pickup areas. Go directly to departure gate (secure areas) after checking in.

-Use a tourist passport (vice official passport) whenever possible. Don't advertise your status as a U.S. military person or government employee.

Alertness and caution are essential factors in reducing the threat of harm from a terrorist act. All DON personnel and their dependents are encouraged to modify their daily routines in accordance with the suggestions in the previous paragraph. For additional information contact John Hammonds, Code 243, at NWC ext. 3721.

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MCPON praises today's sailor

(Continued on Page 10)

concepts that have carried him through his Naval career. The first being integrity, which takes on several different meanings for sailors. According to Bushey, they should notify their chain of command of what's right and wrong; always take care of their own people; realize that with a payraise or extra stripe comes more responsibility; understand as a good leader you're always visible, therefore, you have to constantly watch your conduct and moral standards; and the old days of "do as I say, not as I do" are GONE, those types of leaders are no longer tolerated.

Physical fitness is the second message the MCPON stresses as important to all sailors Naval careers. He reminds young military members that serving in the Navy means being a part of a fighting war machine. The better shape sailors are in both physically and mentally enables them to cope daily with stress and fatigue.

Bushey praises the soldiers of Desert Storm as a prime example of how physical fitness does nothing but benefit an individual. "There's an awful lot of sailors over in Desert Storm right now thankful they are in good shape. The Navy has never been in better physical condition," commented Bushey.

Last, but not least, the MCPON sees Naval education and training -- systems training, educational training, 'A' schools and 'C' schools -- as vital to the Navy's ability to maintain readiness and efficiency. "I think the Navy has the best vocational training of any organization in the world. And we need to utilize that!" remarked Bushey.

Two and one half years into what he thought was to be a three-year tour, the seventh MCPON has decided to stay on for an extra year. That decision wasn't easy, but tremendous support from his wife, Susan, senior Navy leadership and commitment to "making things better" for sailors convinced him to remain until September 1992, completing a full 30-year Naval career.

Reflecting back on the last several years the MCPON sees positive changes that occurred for his Navy sailors. Changes he really pushed to happen. "I think we've totally changed the image of recruiting... I came into Washington D.C. with that listed

as one of my goals," stated Bushey. For many years recruiting duty suffered from a reputation as a thankless, grinding, dog-eat-dog lifestyle. It was perceived by most that the Navy didn't take care of sailors who went to recruiting duty. Fortunately, the whole recruiting system has been restructured. A new promotion and award system was established and the emphasis is now on teamwork rather than individualism. "I was just part of the process and a group of people involved with making those changes happen," remarked Bushey. He gives credit to Chief of Naval Personnel, VAdm. Boorda, and Commander, Navy Recruiting Command, RAdm. McKinney for bringing teamwork to recruiting.

Other optimistic changes included a re-focus on leadership and higher tenure. "I felt like there were several ratings where we had some very good Petty

Officers getting out of the Navy because they didn't see upward mobility," said the Master Chief. He firmly believes the military ought to be a youthful organization where younger sailors are trained to move up and relieve senior personnel. "When I first pushed this idea some senior personnel felt I was going to destroy the Navy by pushing out our experience." But the Master Chief foresaw that to keep the cycle going you have to clean out the top. His efforts

are paying off. The last Chiefs Selection Board had a 22% selection rate, which would have only been 8% if it hadn't been for higher tenure. "There's a lot of people who made Chief Petty Officer last year that would have been disgruntled First Class Petty Officers if the board percentage hadn't opened up. You can bet a lot of them would have gotten out of the Navy," remarked Bushey.

The MCPON always walks away from his visits with key information. He learned several lessons when he went over to visit with the Desert Storm soldiers in November. He was extremely impressed to see how the sailors displayed tremendous skill and professionalism and that morale was extremely high. "Every single one of them I talked to understood why they were over there. They had no regrets, and were anxious to get in there and get it over with," said Bushey.

(Continued on Page 12)



MWR

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Craftech offers a variety of services to its customers. Whether it is art and craft classes, sale of theme park tickets or items being sold at the Craftech Gift Shop, Craftech has something for everyone!

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Discount tickets are available for Disneyland (one and two-day passes), Knotts Berry

Farm, Sea World, Movieland Wax Museum, Universal Studios, Magic Mountain and the Queen Mary/ Spruce Goose. Throughout the year, these theme parks offer many specials for military and DoD personnel.

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If you can't find what you are looking for, ask. Shop personnel do a great deal of special ordering.

The Craftech Center hours are from 10 a.m. to 7 p.m., Monday through Friday, and from 10 a.m. to 2 p.m. on Saturday.

Sea World discount set

Craftech is selling specially discounted tickets to Sea World! Save \$\$\$ every weekend now through March 31 and daily from April 1-14. The specially priced tickets are only \$11.95 for adults and \$8.95 for children (3 to 11 years of age).

Sea World is open daily from 9 a.m. to dusk, with extended summer and holiday hours. Regular admission is \$22.95 for adults and \$16.95 for children. Parking is free.

These tickets are not on sale at the box office, so stop by Craftech today and take advantage of an almost 50 percent savings!

Military has first chance on gym locker rentals

Military personnel on board the Naval Weapons Center have first crack at renting lockers in the newly renovated Center Gymnasium. Through Thursday, Feb. 14, DoD military members have their shot at getting lockers. Starting on Feb. 15, DoD civilians will be able to rent locker space.

The gym is open during previously announced regular hours. For additional information please call NWC ext. 2334.

Well Animal Clinic scheduled for Feb. 5

The Army Vet from Ft. Irwin to 3 p.m. Active duty and retired will be at NWC Feb. 5, 10 a.m. military only. Call ext. 3252.

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There is still time to call the MWR Youth Center and order a Valentine's Day Sweetheart Bouquet of balloons to be delivered to many on-Center locations by a costumed character. The cost is only \$15 for a 12-balloon bouquet. To place an order, call NWC ext. 2909.

