

Desert Empire Fair on stage this weekend

Get ready for the Bacon in the Sun Contest, Diaper Derby, Vegetable Pig Contest, Pig Races and Hot Wheel Races as once again the Desert Empire Fair opens in Ridgecrest. Admission cost two

the fairgrounds is \$3 for those 13 years old or older, \$2 for children 6 to 12 years olds, and \$1 for seniors. Admission is free for military personnel in uniform. The fair continues through

Sunday. Special events scheduled this weekend includes a PRCA - sanctioned rodeo tomorrow (Saturday) at 6 p.m. A local rodeo will precede the professional event in the afternoon.

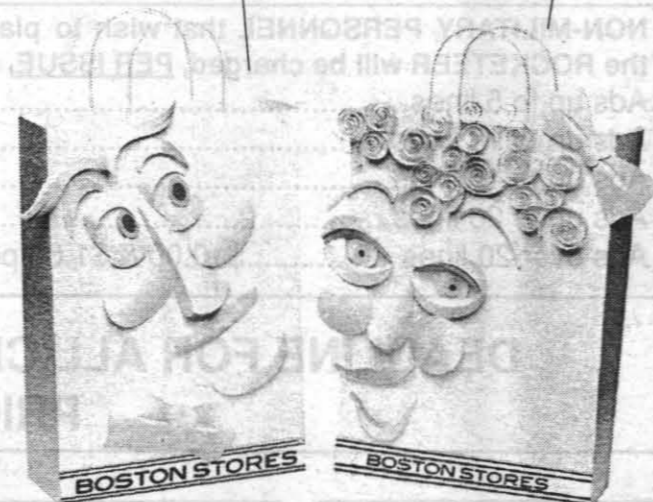
NWC HOTLINE
Integrity, efficiency program
Call: NWC ext. 3636 (24 hours)
or call the Inspector General at:
(800) 522-3451 (toll free)
288-6743 (Autovon)
(202) 443-6743 (commercial)

THE ONE DAY SALE

15% OFF everything in the store!

Including items already on sale at 25-50% off.

How long does the One Day Sale last? Guess.



ONE DAY ONLY! SAT., SEPT. 8, 9AM - 7PM

Great values on items for Women, Men, Children and the Home. Take 15% off these items and more!

WOMEN

Cathy Daniels knit dressing. Choose from a variety of styles and prints. Reg. \$24.-36. Sale 25% off.*
Missy pants. Career looks in a variety of fabrics. Reg. \$26.-40. Sale 25% off.*
Selected famous maker coordinates. New Fall styles and colors. Sale 25% off.*
Missy pant tops. Polyester and cotton blend woven tops. Sizes 8-18. Reg. \$15.99. Sale 25% off.*
Samantha petite pants and skirts. Choose from basic and fashion colors. Petite sizes 4-14. Reg. \$28 and \$32. Sale 25% off.*
Fuller fashion poly/cotton pants. Black, navy and khaki colors. Fuller fashion sizes 30-40. Reg. \$18. Sale 33% off.*
California Looks dresses. Sale 25% off.*
Entire stock of regular price coats. Sale 25% off.*
Selected drawstring tops for Juniors. Sizes S-M-L. Reg. \$28. Sale 33% off.*
Selected Junior denim jeans. Sizes 3-13. Reg. \$30.-34. Sale 33% off.*
Famous maker Fall sleepwear. Reg. to \$36. Sale 33% off.*
Entire stock of regular price Deana and Warner's daywear. Sale 25% off.*
Entire stock of regular price Olga, Vanity Fair, Exquisite Form, Playtex, and WOW by Playtex Limited foundations. Sale 25% off.*

Entire stock of Support Can Be Beautiful foundations. Including beautiful new Fall styles. Sale 25% off.*

Entire stock of Playtex girdles and Super Look control panties. Including Playtex's new Super Look fanny shaper. Sale 25% off.* Register to win an Australian vacation. Details in lingerie department.

Entire stock of slippers. Sale 25% off.*
Selected handbags. Sale 33-40% off.*
Entire stock of Tacoa fashion jewelry. Sale 50% off.*
Selected styles of fashion earrings. Sale 40% off.*

MEN

Famous maker crew neck sweaters. Choose from cotton, wool blend and acrylic styles in a variety of colors. Reg. \$36. Sale 40% off.*
Long sleeve plaid shirts. Regular and button down collars. Reg. \$22. Sale 33% off.*
Entire stock of Haggard dress slacks and casual pants. Sale 25% off.*
Entire stock of Levi's Dockers and Levi's jeans. Sale 25% off.*
Entire stock of Arrow and Van Heusen dress shirts. Sale 25% off.*
Prince Gardner wallets. Sale 50% off.*

YOUNG MEN

Cherokee active fleece sportswear. Reg. \$30.-32. Sale 33% off.*

CHILDREN

Entire stock of Joggles jog suits. Infants, girls and boys sizes. Reg. \$22.-28. Sale 25% off.*
Hush Puppies jog suits for Boys. Sizes 4-7. Reg. \$19.97. Sale 25% off.*

HOME

Frosted stripe towel ensemble by Fieldcrest. Values \$4.-8. Specials \$1.97-3.97.
Tapestry chair pads. Value \$14. Special \$6.97.
Crystal serveware by Mikasa. Carmen and Rosella patterns. Value \$25. Sale 40% off.*
Entire stock of decorative Halloween merchandise. Choose from waterballs, bags, figurines plus many frightfully fun gifts. Sale 25% off.*

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

BOSTON STORES

Your friendly neighborhood department store with famous brands.

- | | | | | | | |
|------------------------------------|--------------------------------------|--|------------------------------------|-------------------------------------|-----------------------------------|--------------------------------------|
| ANAHEIM (714) 776-2270 | DIAMOND BAR (714) 861-5143 | LANCASTER (805) 945-8653 | PLACENTIA (714) 993-4141 | POWAY (619) 748-2960 | ROSSMOOR (213) 430-1001 | VICTORVILLE (619) 241-7667 |
| CAMARILLO (805) 482-1626 | HEMET (714) 652-2988 | MISSION VIEJO (714) 581-6600 | POMONA (714) 593-0212 | RIDGECREST (619) 375-3567 | (714) 826-1771 | WHITTIER (213) 947-2891 |

Sept. 7, 1990

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| | Max | Min | Peak Gust |
|--------|-----|-----|-----------|
| Thurs. | 101 | 71 | 29 |
| Fri. | 96 | 56 | 31 |
| Sat. | 100 | 58 | - |
| Sun. | 97 | 60 | - |
| Mon. | 98 | 64 | 21 |
| Tues. | 97 | 67 | 16 |
| Wed. | 98 | 64 | 20 |

Address released for letters to those in 'Desert Shield'

Individuals wishing to send letters to unnamed sailors/Marines afloat and participating in Operation Desert Shield can use the following address:

Any Servicemember
Operation Desert Shield
FPO N.Y. 09866-0006

This address is for any sailor/Marine, i.e., no one in particular. Letters must be sent first class and weigh 12 ounces or less. No packages will be accepted, only first class letters.

For Army, Air Force and Marine personell on the ground in Saudia Arabia the address is:

Any Servicemember
Operation Desert Shield
APO N.Y. 09848-0006

Usual size and weight restrictions remain in force for mail addressed to individuals via the ships or units FPO.

Travel Branch and Disbursing staffs attending training

During the period of Sept. 10-13, staff from the Travel and Disbursing offices will be attending required training on relocation allowances. This training is to improve the quality of service these offices provide to their customers.

Because the staff will be limited in the offices at this time, please make sure all travel orders reach the Travel Office as early as possible to allow a timely process.

For more information, call the Travel Office at NWC ext. 2707.

NWC Rocketeer

Naval Weapons Center, China Lake, California 93555-6001

Vol. XLV, No. 36, September 7, 1990

'Winder' earns top award

After 36 years of service for the Naval Weapons Center, Gene (Winder) Younkin is still going strong and continues to be an important member of the Center's Sidewinder missile team. This long-term dedicated and exceptional service brought the Navy Meritorious Civilian Service Award to Younkin recently. Capt. Douglas W. Cook, NWC Commander and Bill Porter, NWC Technical Director, teamed up to make the presentation.

This award is the highest Navy honor a Center commander can give a civilian employee, and recognized the valuable contribution made by Younkin over the years. The citation to accompany the award read in part, "Particularly noteworthy was your work in

developing the six degree of freedom analog simulations which ultimately formed the basis for all Sidewinder missile stability and performance analyses."

One of the highlights of my career had to be the opportunity to work directly with the Top Gun people for a year and a half.

Capt. Cook added he and many others really appreciated the continued contributions "Winder" has made to the Sidewinder missile development over the years.

"Obviously I think this is a neat place to

work or wouldn't have been here for 36 years," commented Younkin in an interview.

He added, it was the "type of people and opportunity given to do work that has a direct affect on the overall success of the Department of Defense" that made China Lake such a neat place to spend a career.

According to the nomination letter from Sandy Rogers, head of the Intercept Weapons Department, Younkin is the NWC and Sidewinder liaison to the air-to-air operational community both in the United States and in foreign countries which deploy the Sidewinder missile.

The letter also notes "Winder" was a key (Continued on Page 5)

Experience rewarded

Jack Pakulak uses years of expertise to Navy's advantage

Few people, within the Navy laboratory system or outside it, have the practical expertise in the field of thermal behavior of weapons than Jack M. Pakulak, Jr., a research chemist with the Ordnance Systems Department's Thermal and Process Evaluation Branch. His expertise is based on 38 years of conducting thermal behavior research at the Naval Weapons Center.

Since the early days of his career, the focus in his world of thermal applications was "how to make it safer." This theme dominates his research and the projects he has been associated with. The same theme has been central in his authorship of more than 100 different publications on thermal behavior.

Jack began by trying to understand thermal behavior and it's responses to different propellants. There had been several fires onboard U.S. Naval carriers caused by explosives. The Navy wanted a way to predict the worst case scenario caused by a fire on a carrier. The question of safety and "what we could do to relieve this problem," put Jack's research to work, resulting in his publishing: *A Thermal Decomposition Classification of Propellants*, and (Continued on Page 10)



A-12 AVENGER--This is an artist's conception of the A-12 Avenger, released by the Navy. For more information on the Navy's next generation of attack aircraft see story on Page 8.

China Lake Calendar

Fri.-Sun. Sept 7-9

... Desert Empire Fair, military in uniform admitted free.

Mon.-Fri Sept 10-14

... Navy Relief Course, China Lake Branch Navy Relief Society office, 1811 Lauritsen Road, 9 a.m.-12 noon. Free child care.

Tues. Sept. 11

... WACOM's annual Fall Membership Social, NWC Seafarer Club, 10 a.m.-12 noon.

Coming Events

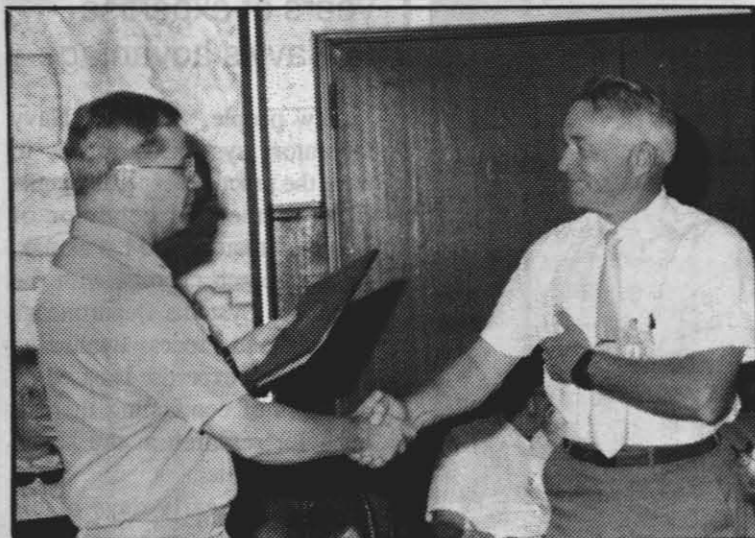
... Fall Clean-up Day, and Hazardous Waste Collection Day, Sept. 29

... Mini-Triathlon '90, Oct. 13

... Navy Birthday Celebration, Michelson Lab, 11 a.m.-3 p.m.

... China Lake Challenge, Oct. 27

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 Tuesday before Fridays publication.



GOOD SUPERVISION--Ed Regan, head of the Range Department's Ballistics Test Branch, was honored Monday by Capt. Douglas W. Cook, NWC Commander, with a certificate commending Regan for 20 years as a supervisor without a lost-time accident. Capt. Cook noted few supervisors can top that kind of safety record.
Photo by PH3 Cary Brady.

Wellness Corner



September is National Cholesterol Education Month. The goal of this special month is to increase public awareness about the role high blood cholesterol plays in the development of heart disease and to promote ways to reduce cholesterol levels if they are high.

The NWC Wellness Program is providing all Center employees, attached activities, and active duty military an opportunity to "know your cholesterol number" by offering low cost blood analysis. The blood test analysis will include: A/G Ratio, Albumin, Alkaline Phosphatase, Bilirubin, Bun/Creatinine Ratio, Calcium, Chloride, Cholesterol (Total Cholesterol, HDL, LDL, Risk Ratio), Creatinine, GGTP, Globulin, Glucose, Iron, LDH, Magnesium, Phosphorus, Potassium, SGOT, SGPT, Sodium, Total Protein, Triglycerides, Urea Nitrogen (BUN), Uric Acid, Complete Blood Count with differential and platelet count. Participants must abstain from eating any food or drinking anything other than water for 12 hours before their blood draw. The draws will begin at 7 a.m. on the dates and at the locations listed below. The cost for the analysis is \$19. Payment is required at the time of the draw. Make checks payable to MWR-REC. Appointments may be made on any computer or terminal that will connect to the SCFC VAX. An account number is not needed. If you have access to another VAX on the network, log on and type "set host scfc". When "user name" appears on the screen, type in Wellness. Options will appear for scheduling or deleting appointments for the blood draw. If you cannot access the SCF VAX terminal, call NWC ext. 2468 and we will help you. If you have further questions or need additional information call Betty Miller or Pat Oliver at the Wellness Program Office, NWC ext. 2468.

Dates, locations for blood draw

Sept. 18--EWTES, contact Bret Jacobson, NWC ext. 3571x315 for appointment.
Sept. 18--Range Control Complex, Range Headquarters, Bldg. 31457, Conference Rm. (Rm. 104).
Sept. 19--Range Systems Lab (IOB), Bldg 32544, Conference Room (Room 123)
Sept. 19--CLPL, Bldg. 151, Room 10; contact Marci Burnett, NWC ext. 7330 for appointment.
Sept. 20--Hangar 3, Top Side, Training Room
Sept. 25--Michelson Lab, "Little D" Conf. Room

Sept. 26--Michelson Lab, "Little D" Conf. Room
Sept. 27--Michelson Lab, "Little D" Conf. Room
Sept. 28--Michelson Lab, "Little D" Conf. Room
Oct. 2--CLPL, Bldg. 151, Room 10; contact Marci Burnett, NWC ext. 7330 for appointment,
Oct. 2--Public Works, Bldg. 981, Conference Room
Oct. 3--Training Center, Room 114

The Seafarer Club is supporting the sixth annual American Heart Association's Food Festival the last week of September. Several of the entrees offered will be prepared following American Heart Association's guidelines. Stop by and enjoy a meal that is good for your heart.

Planning for the second annual China Lake Challenge, to be held Oct. 27, is well underway. Many events are being planned with room for more. This event is intended to include people at all activity levels, and so the CHALLENGE offers an event for every level of fitness. The CHALLENGE is a friendly competition between participating departments, active duty military, and attached activities. Points are awarded as follows: one point for participation, two points for meeting the predetermined standards in certain events, and three points for winning an event. Points will also be awarded to those who coordinate events and to volunteers. Departments have already signed up for: Softball Throw (Code 64), 5K Walk (Code 36), Dashes (Code 25), Relays and Mile Run (Code 31), Swimming (Code 22), Hoop Shoot (Code 35), Farmer John Relay (Code 26), Aerobic Dance and Push-Ups (Code 32), Dizzy T-Ball (Code 232), Softball Tournament (Code 28), Obstacle Course (Code 34), People Walk (Code 05), Precision Golf (Code 61) and a T-shirt design and banner competition.

Additional events that will earn points for the Challenge include: the MWR Mini Triathlon, Hagen Memorial Tennis Tournament, Kiwani's Walk-a-thon and Over the Hill Track Club 5/10K Run. Some events will require advance sign-ups.

Rules and more information is available from Wellness Program Area Coordinators and the Wellness Program Office. Chair persons for additional events are still needed as well as administrative volunteers. If you are interested, please call NWC ext. 2468.

Inez L. Piacenta started at NOTS in March, 1949

Memorial services for Inez L. Piacenta, affectionately known as the head of the airfield, will be held at 11 a.m. today, Sept. 7, at the All Faith Chapel. Chaplain S.

Casimano will officiate. Born Jan. 9, 1923 in Two Dot, Montana, Piacenta moved to Ridgecrest in March of 1949, when she started working for the

Aircraft Department at the Naval Weapons Center. She retired as an electrical engineering technician in 1985 and returned to work in Code 61 as a rehired annuitant.

ROCKETEER CLASSIFIEDS

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**ALL MILITARY PERSONNEL
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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. WEDNESDAY - PRIOR TO FRIDAY PUBLICATION

1 PERSONALS

CHIEF SELECTEE BEACHBOERD, NELSON, CLEVELAND AND ANDERSON, would like to invite all Chief Petty Officers to their initiation on September 14th.

15 HELP WANTED

BE YOUR OWN BOSS. Start your own parking lot sweeping business. Call Bill 213-923-5040.

20 RENTALS

2BR, 2BA FROM \$495/mo. + \$300 deposit. Pool & Jacuzzi in courtyard. Water/Trash/Basic Cable paid. 375-7642. Furniture Available.

AVAILABLE NOW! 2BR, 1BA fenced yard, stove & refrig., w/d hookups. \$425/mo. + \$475 deposit. Call 375-1439, between 8am - 7pm.

DOWNTOWN! 850-A N. Balsam St. 1 bed garage, laundry facilities. Water/trash paid. PET OK. \$370/MO. Avail NOW. 446-6487 evens.

FEMALE ROOMMATE looking for same. Non-smoker to share townhouse. 2BR w/pvt. BA, w/d, jacuzzi, pool, gar., \$300/mo. + util. Please leave message. 375-2141.

LEASE option to buy, low down, no qualify assumable loan! \$599/mo. 10 min. to NWC, 4 BED, 1 3/4 BA house, double garage, Valley Ave., Inyokem. Pet OK. 446-6487 evens.

20 RENTALS

NEED A RENTAL? CALL - R & D MARTIN REALTORS Better Homes & Gardens 375-3880

30 SERVICES

CREDIT GONE BAD? Credit repair book shows how you can have slow-pays, repossessions, even bankruptcies removed from your credit record. Rebuild, or start new credit. Secure credit cards, loans, etc. Money-back guarantee. For information call 446-6646, extension 1503.

WINDOW TINTING Stop interior fading. Quality work. 5 year guarantee. City licensed. Call for free quote. 371-2511. 6:30 a.m. - 10:00 p.m. Collins Window Tinting

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

35 AUTOMOTIVE

'88 BMW 325; conv., loaded, red, 5-speed, low miles, CD player. XLNT cond. 1st \$24,900 gets it. 371-2260.

1971 4WD TOYOTA Landcruiser. Locking hubs, new brakes, runs great, excellent body. \$2400/OBO. 446-3951.

1985 Pontiac 1000. 5-door coupe. \$2000 (blue book)/OBO. 375-3152.

35 AUTOMOTIVE

FOR SALE: '89 Ford Taurus station wagon. 8 passenger. Loaded. Xlnt cond. Great family car. 446-6954.

40 MISC. FOR SALE

Henry Link 4-pc. bedroom set. Triple dresser w/mirror, reg. dresser, night stand, queen size bed w/mattress. Ask \$900. ALSO - Stereo set - \$940. 446-5165.

Love seat, chair, coffee table, and exercise bike. Call 446-5169.

XTRA LARGE Rabbit cage. 8 mos. old. Over \$80 invested. Will sell for \$40/OBO. 446-6954

45 GARAGE SALES

MOVING SALE - Handy size 1984 Ford Escort LX 4-door station wagon: Factory air-conditioned, AM/FM cassette stereo, power steering, tilt wheel, power door locks, cruise control, custom wheels & roof rack; New fuel injectors, new spark plug wires & plugs, new distributor cap & rotor (all Motorcraft); new battery; Michelin steel-belted radial tires. Blue book retail \$3100. Asking \$2300. Call 446-6326.

55 REAL ESTATE

Ponderosa Sequoia National Forest. 3BR, 2BA home. Fully furnished, appliances and beds. Breathtaking, quiet surroundings. \$175,000. Owner Financing available. Peter Brewer. Peppermint Realty. 209-539-2952.

55 REAL ESTATE

MOVING SALE - BILTMORE Mobilehome: Clean, 2 bedroom, with carpeted covered deck, metal building with laundry hookups, custom lockable wood building, large shade trees, automatic sprinkler/drip system, automatic security lighting, kitchen bar w/stools, new roofing/cooler, digital furnace control (programmable), upgraded carpeting, custom magnetic inside window covers, new glass & screen in sliding doors, new back door lock, refrigerator with top freezer compartment. Call 446-6326.

55 REAL ESTATE

MOVING SALE - Freshly-painted, clean, 3-bedroom house-plus den, 2-bathrooms, nice kitchen w/dining area, living room w/fireplace, ceiling fans, exhaust fans, up-dux, evaporative cooler, back porch w/covered patio, RV parking area, metal storage building, double-car garage w/automatic door opener/closer, nice yards w/automatic sprinkler system, automatic security lighting, shade & fruit trees and more. Call 446-6326.

Classifieds Get Results!

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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224 East Ridgecrest Blvd.
Ridgecrest, CA 93555 (619) 375-4481



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Editor -- STEVE BOSTER Staff Writer -- PEGGY SHOAF Staff Writer--KRISTINE SMITH Photographer -- PH3 CARY BRADY

China Lake, CA 93555-6001; telephone (619) 939-3354; E-Mail SCF::Rocketeer. Deadline for receiving stories and photos is 4 p.m. Tuesday for publication on Friday of that week.

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Community Events

WACOM (Women's Auxiliary to the Commissioned Officers' Mess) will hold its annual Fall membership social Sept. 11 from 10:00 - 12:00 at the NWC Seafarer's Club. "A holiday in Santa Fe" is this year's theme. For more information contact Membership Chairperson, Sondra Drake at 375-7445. WACOM is open to all members and spouses of the Commissioned Officers' Mess.

Chapter 2274 of the American Association of Retired Persons (AARP) will have its September meeting on Sunday, Sept. 9, at 1 p.m. at the Ridgcrest Senior Center, 125 S. Warner St. As always, the meeting will begin with a potluck lunch. After lunch, a business meeting will be held.

Artist Mary Miears Cutsinger will be the featured painter in the Sylvia Winslow Exhibition Gallery of the Maturango Museum from Sept. 8 through Oct. 10. The exhibit is entitled *In the Desert Light*. Admission is \$1 for adults and 50 cents for children.

Dr. Pierre St. Amand will talk about the 1952 Tehachapi earthquake during the next Historical Society Meeting. The event will start at 7:30 p.m. on Sept. 18 at the Maturango Museum. In addition, Dr. St. Amand will address the geological aspect of the earthquake.

Rehearsals begin for 1990 'Messiah' performance

Rehearsals for the 1990 presentation of the "Messiah" begin Sunday, Sept. 16, beginning 3 p.m. at Grace Lutheran Church, 502 N. Norma. Singers must furnish their own music. The "Messiah" will be performed Sunday, Dec. 2, from 3:30 to 5:30 p.m. on Monday, Dec. 3, from 6:30 to 8:30 p.m. Singers from the Indian Wells Valley and surrounding area are invited to participate as chorus members and/or soloists in this annual community event. The solo try-outs are on Sunday, Sept. 30, at 3 p.m. Auditioners should be prepared to sing songs from this performance. For more information, call Bess McDowell at 375-1540 after 5 p.m. or on weekends.

Valley celebrating heritage with Western Mining Days next month

Western Heritage Mining Days will be celebrated Oct. 20-21 at Indian Wells Valley. The excitement of the California gold rush era will be relived with old-fashioned melodramas, gold panning, quick draw contests, tours to ghost towns and modern mining operations (Yellow Aster Mine, Cerro Gordo, Coso Geothermal Plant), chili cook-offs, old time children's games, western music, desert craftsmen and more at the Kern County Desert Regional Park in Ridgcrest. No admission will be charged.

Join the luau at NWC O'Club

Enjoy fresh fruits, lomi lomi salmon, pork spare ribs, teriyaki beef sticks, pineapple chicken, steamed rice, Hawaiian lau lau, fried rice and haupia (coconut pudding) during the *Hawaiian Luau*, slated for Friday, Sept. 21, at the Naval Weapons Center's Officers' Club. The buffet starts at 6 p.m., followed by a "variety DJ" Tickets, \$10.95 each, are available at the Seafarer Club. They will not be sold after Sept. 18. For more information, call the Seafarer Club at 446-6929.

Public Works welcomes new leader

As the new Naval Weapons Center's Public Works officer, Cdr. James R. Williams, wants to "provide stability to the Public Works Department, but through that stability, a willingness to prepare for the future -- to help make NWC stable for that future." Cdr. Williams replaces Capt. Ken Kelley, who retired from military service last month.

The new Public Works officer brings more than 24 years of Naval experience to NWC. He entered the United States Naval Academy in 1966 and graduated in 1970 with a Bachelor of Science Degree in Mechanical Engineering. The newly commissioned ensign in the Civil Engineer Corps then reported to his first duty station, U.S. Naval Mobile Construction Battalion THREE at Seabee Camp Haskins, north of Danang, Republic of Vietnam.

After a tour in Vietnam, Cdr. Williams went back to school and received bachelor and master degrees in civil engineering, with a major in structural engineering from the Georgia Institute of Technology. Making use of his newfound knowledge, the Navy appointed him a structural engineering research and development officer at the Defense Nuclear Agency in Washington, D.C. until 1976. While there, Cdr. Williams worked in the research of structural systems survivability, including design for survivability of the Navy's first hydrofoil.

In 1976, he was reassigned to Norfolk, Virginia as the administrative assistant and personal aide to the Commander, Atlantic Division, Naval Facilities Engineering Command. Cdr. Williams was then transferred to the Naval

In August 1983, Cdr. Williams was reassigned to the Commander, U.S. Naval Activities, United Kingdom, as the Public Works officer and officer-in-charge of construction in London. "They thought I was having too much



The Skipper Sez...

QUESTION

I was reading the back of my badge and it says the badge will be surrendered to any NWC security representative on demand. Who represents an NWC security representative -- Boeing, China Lake Police Department, Naval Investigative Service? Just who? Thank you.

ANSWER

A NWC security representative is any NWC employee, military, civilian or contractor who is performing security duties as a representative of the commander, Naval Weapons Center. In most cases, the security representative is an individual whose duty is to control access to the Center or restricted areas. Under given circumstances, it could be military members of the Auxiliary Security Force (ASF), China Lake police offices or contractor guard personnel. Additionally, (Naval Investigative Service agents could confiscate badges during authorized investigations if misuse of the badge is suspected. Additional information concerning NWC employee badges can be obtained from Judy Patterson, Code 2433, NWC ext. 3005.

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



Cdr. James R. Williams

Magazine, Lualualei, Hawaii in 1977 for his first tour as a Public Works (PW) officer, followed by another tour as a PW officer and officer-in-charge of construction for the Marine Corps Air Station, Kaneohe Bay, Hawaii. After four years in Hawaii, he reported for duty as the executive officer, U.S. Naval Mobile Construction Battalion SEVENTY-FOUR at Gulfport, Miss.

fun there, so they sent me back to Gulfport as commanding officer of the Naval Construction Training Center from 1986 to July 1988," the new China Laker said.

Immediately prior to being sent to NWC, Cdr. Williams was the executive officer at the Naval Construction Battalion Center in Gulfport. "I learned a lot by being an XO," he said. "I hope that (Continued on Page 9)

AFB hosts day of appreciation

Edwards Air Force Base has planned a special day of events to honor the military retirees in the Antelope Valley and surrounding communities. The fourth annual Retiree Appreciation Day will be held Sat., September 22, 1990. There will be no admission charge.

The day's activities will begin with breakfast at 7:30 am. in the NCO Club.

A program will follow at 10:00 am. with an opening ceremony. Base representatives will be available in the NCO club to provide information pertinent to retired members benefits.

The evening will close with a dinner at 6:00 pm. in the NCO Club. Cost for the dinner is \$6.95 per person.

For more information on the days events contact Capt. John Scanlon, (805) 277-2510.



OAK LEAVES FOR THE KNIGHTLY KNIGHT--Elizabeth Knight performs the traditional honors of pinning silver oak leaves on her husband Cdr. Cedric Knight. A new arrival to NWC, Cdr. Knight is head of the Procurement Department.

Navy's exceptional family member enrollment required

Sailors who have family members with special needs before, during and after relocating required by a permanent change of station (PCS) are now required to enroll in the Exceptional Family Member (EFM) Program.

Family members identified by healthcare providers and/or education authorities as exhibiting physical, emotional or mental handicapping conditions are to be enrolled promptly once the condition is established.

To assist sailors in the enrollment process, EFM coordinators have been designated at all medical treatment facilities. Direct program inquiries may be made to the EFM program manager at (202) 693-3308/09/10 or AUTOVON -- 223-3308.

NWC Branch Medical Clinic has new hours

Until further notice, the Branch Medical Clinic Audiometric Department will have the following new hours. Monday, Wednesday and Thursday -- 9-11:30 a.m. and 12:30-2 p.m. Tuesday -- 10-11:30 a.m. and 12:30-1 p.m. Friday -- 9-11:30 a.m. and 12:30-3:30 p.m.

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Chapel



The Rope and the Ladder

Once there was a man who fell into a deep hole, with no way to get out. He thought to himself, "I will be stuck in this hole forever!" He soon became resigned to his fate, and when people who passed him by asked him if he wanted to get out of the hole, he would respond, "It doesn't matter what I want! I cannot get out. I am stuck in here forever!"

One day, a stranger came to the hole and threw down a rope. But the man in the

hole could not reach it, because it was a good jump above his grasp.

So he said to the stranger, "I cannot reach the rope. I guess that I am stuck in this hole forever!"

The stranger went away, but returned the next day with a ladder. He lowered the ladder into the hole and the man quickly climbed it, only to discover that the ladder was not long enough. It did not reach to the top of the hole which was just a jump away.

The man said to the stranger, "I cannot reach the top of the hole. I guess that I am stuck here forever!" So the stranger took the ladder and left.

The next day, the stranger returned, but this time he had nothing with him. He said to the man in the hole, "I have neither a longer ladder nor a longer rope. What I had, I gave you. All you had to do was jump, but you did not. So, I guess that you will be stuck in this hole forever!"

So, it seems, is the nature of "ruts," those who fall into them and those who make no extra effort to escape from them. So it is sometimes with all of us! As we periodically examine our lives, how often have we come to the realization that we have fallen into a hole? How often have we become aware of unsavory patterns of behavior that have quietly crept into our daily routines or of negative attitudes that have taken over our outlooks on life in general and some people in particular?

How often do we lament our fate and quickly resign ourselves to the ruts that really exercise control over us, all the while claiming that, after all, we are only "human" and far from perfect?

"I guess that I am stuck in here forever!" is the response of the individual who has grown comfortable in the rut into which he or she has fallen. More tragic yet are the ruts that make us unfaithful to the living out of our faith -- an authentic faith that does not allow for compromises -- in Jesus!

We might well stop and call to mind the times when others interested in our well-being -- Jesus first and foremost! -- have offered us a rope or a ladder. We might be surprised at how many times we have excused our behavior by stating that these ropes or ladders were just "too short" to be of any assistance.

By L.Cdr. S. A. Casimano, CHC, USN Command Chaplain

Fall Clean-up draws hundreds

More than 130 work requests have been submitted by Naval Weapons Center codes for the NWC Fall Clean-up Day on Sept. 29. Richard Dominguez, Fall Clean-up Day coordinator, said he was very pleased with the response. "We have some excellent projects planned for that day," he added.

Many work requests centered on landscaping projects. All land-

scaping has to be xeriscape in nature and designed so as not to increase the maintenance requirements in the area. Another very popular project is repainting office spaces. Several codes are installing mini blinds or placing mylar coatings on windows for a more energy efficient office setting," he added.

Other projects approved included a small picnic area in

the Michelson Laboratory compound, a small patio and installing wall panels in office areas.

All-in-all, Dominguez said he was pleased with the innovative ideas brought forth by the Fall Clean-up Day. He hopes the enthusiasm and innovation will continue through the Self-Help Program he administers to get this work done all year long.

Surplus items go on the block

Local Auction 41-0447 of surplus government property will be held by the Defense Reutilization and Marketing Office at China Lake on Wednesday, Sept. 12.

The auction will begin at 9 a.m. in Bldg. 1073, Warehouse 41. The public is encouraged to bid.

Among the 225 items to be offered will be a forklift, Graftex cameras, hand and power tools, drafting tables, PCs, auto repair shop equipment, blueprint copiers, scales, welder, refrigerators and stoves and a Ford tractor.

The items will be on display for inspection from 7:30 a.m. to 2:30 p.m. daily, except weekends, beginning Friday, Sept. 7. A complete list, as well as sale terms and conditions, can be seen at Building 1073, Warehouse 41.

Registration begins at 7:30 a.m. on the day of the

sale. Bidders must be present and registered to bid. Mailed bids cannot be accepted.

Items purchased may be removed on the sale date, provided full payment is made. Payment must be in cash or guaranteed instrument (cashier's check, money order, traveler's check, etc.).

Purchasers have until Sept. 19 to pay and remove items, except items 212 thru 216, which must be removed by Sept. 28.

Because the Defense Reutilization and Marketing Office is located within the Naval Weapons Center's interior security fence line, prospective bidders without an NWC pass must stop at the main gate Visitor's Center and obtain a pass before coming aboard.

For further details, contact Phyllis at Building 1073, Code 97, or call NWC ext. 2502/2538.

Branch Clinic short staffed, but open

Middle East deployment doesn't stop basic services from being offered here

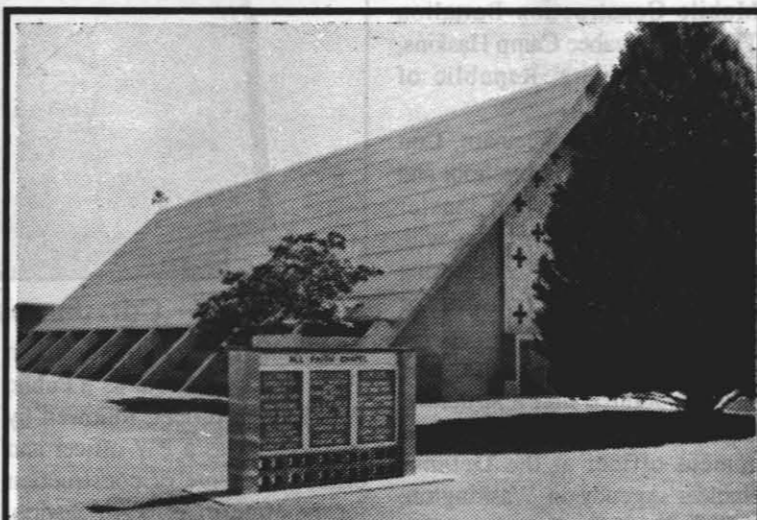
The deployment of active-duty military members to the Middle East means that some stateside military medical facilities could have staff shortages for awhile. Such shortages might mean some members of military families will be seeking care from civilian sources -- and perhaps using the Civilian Health and Medical Pro-

gram of the Uniformed Services (CHAMPUS) for the first time.

According to L.Cdr. Richard Titi, officer-in-charge of the Naval Weapons Center Branch Medical Clinic, while the crisis has caused a shortage of staff at the local military clinic, the basic services are still offered. The officer-in-charge recommends

families of active duty military personnel call the clinic before seeking civilian medical care.

If civilian medical care is necessary, however, first-time CHAMPUS users should verify if they are listed in the DEERS computer files as being eligible for CHAMPUS benefits before filing a claim.



Divine Services

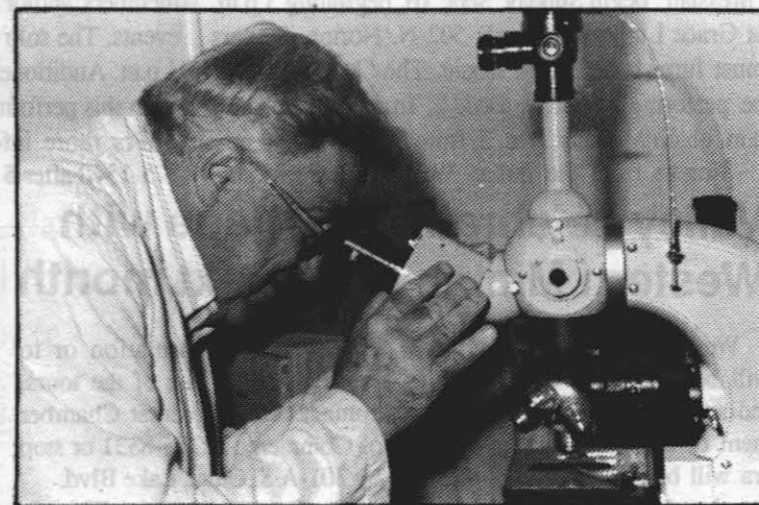
| Protestant | |
|--|-------------------|
| Sunday Worship Service, East Wing | 8:00 a.m. |
| Sunday Worship Service, Main Chapel | 10:30 a.m. |
| Sunday School, 1008-10 Blandly & 1903-05 Mitscher | 9:00 a.m. |
| Bible Study (East Wing), Wednesday (September thru June) | 11:30 a.m. |
| Men's Prayer Breakfast, East Wing, Thursday | 6:30 a.m. |
| Officers' Christian Fellowship/Christian Military Fellowships, East Wing, Thursday | 7:00 p.m. |
| Islamic | |
| Jumaa Prayer (Friday at 1006 Blandly) | 1:00 p.m. |
| Roman Catholic | |
| Sunday Mass, Main Chapel | 9:00 a.m. |
| Daily Mass, Small Chapel | 11:35 a.m. |
| Confession (Sunday), Small Chapel | 8:15-8:45 a.m. |
| Confession By Appointment | Anytime |
| Religious Education Classes (Sunday) (September thru May) | 10:30 a.m. |
| 1902 Dibb, 1002 Blandly, 1008-10 Blandly & 1903-05 Mitscher | |
| Jewish | |
| (NWC ext. 2851) | |
| Weekly Services (Friday - East Wing) | 7:30 p.m. |
| Adult Hebrew Lessons (Saturday at 1004 Blandly) | 9:00-10:00 a.m. |
| Religious Education (Sunday at 1004 Blandly) | 9:00 a.m.-12 noon |
| Chaplain S. A. Casimano, LCDR, CHC, USN Chaplain G. L. Goodman, LT, CHC, USNR Hearing Impaired Equipment, Nursery Available Phone NWC ext. 3506, 2773, 2873 | |

'How to make it safer' dominates Pakulak's research

(Continued from Page 10) brains," emphasized the author.

Jack's currently working on the Advanced Bomb Family, and explosives that make it safe in cook off situations. He's already confident a solution to making it safer has been reached. "In working with the warhead people, we've designed the bomb so the liner will react, build up pressure, blow the end of the bomb out with the fuse booster in it, so it won't set off the explosives. Then make the liner kind of gooshy. It'll be hot, so the back will push the explosive charge right out of the confinement."

Working with thermal research over the years, one personal incident remains most prevalent in Jack's mind. Early in the researcher's career, a commercial lab was making a propellant they labeled "very, very safe." Jack was skeptical and requested the lab send a sample to analyze. "It was almost like a joke, this stuff was so unstable I couldn't believe it. So I wrote up a report stating



Jack M. Pakulak, Jr.

my findings."

In the mean time, Jack had been selected by the Center to review the company's product. He stood firm in his convictions regarding their product. He received opposition from those who did not agree with his position. "Part of it, was the fact the lab said this was so safe, it didn't have to go through any of our safety tests." The motor in question was sent to Jack for testing.

"The temperature at that time was 110 degrees outside, I put the motor into an oven that was 135 degrees. The motor reacted from the time I put it into the oven, to the time of cook off, 28 hours. The samples I had out in storage at 110 degrees, I noticed were starting to swell like they were ready to cook off and I had to put them into refrigerators to quench their reaction."


After Jack's research was com-

pleted, it was determined that the propellant was not to go to the fleet. "Had it have gone to the fleet it could have easily cooked off in the magazine, just from normal storage temperature." Jack remembers this incident vividly, "It was very important to me, because it was in my early days, and it was the first time I caught something and said, hey its no good."


Jack is planning to retire in the near future with his wife, Mary, a chemist at NWC, who is also finishing up 30 years in the field. Jack came to work at China Lake in Oct. 1952 after graduating from Linfield College in McMinnville, Ore. Three months later he was drafted into the Army. After receiving an honorable discharge in 1954, Jack was placed on educational leave and spent the next six years attending Oregon State College at Corvallis (where he received his master's degree in 1958), Stanford University at Palo Alto, and the University of Arizona at Tucson.

Looking to the future, Jack predicts changes within the field are adversely affecting the wealth of knowledge at NWC. "As we experts start to leave, there's no one to really follow in our footsteps, it's really sad, because in the thermal area there's just a couple of us left." Jack attributes this concern to the restrictions on hiring and recent limitations on research.

In the world of thermal research there are few places like NWC, with thermal researchers doing the kind of application work Jack does. "The universities deal strictly with theoretical studies and there are limited laboratories that can research in this manner," he commented. For 38 years, the research and publications produced in Jack's lab have helped answer the problems of safety in the fleet. "Once us old guys disappear its going to be very difficult to solve these problems," reflected the resident expert.



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Executive Leadership Program aids careers

Open to full-time, permanent employees in non-supervisory (or less than one year supervisory) positions at the DA/DS/DT-3 and DP3 (below the midpoint) levels, the Women's Executive Leadership Program is a 12-month career enhancement program for both men and women desiring training and developmental experiences to prepare them for future opportunities as supervisors, managers and executives

WELP is a 12-month career enhancement tool for both men and women

in the Federal Government. Selected participants will spend a minimum of four and a half months away from the workplace during the year.

Additional information about this program is available in a special edition of the NWC Announcements (Blue Sheet) that is now being distributed. Besides the Women's Executive Leadership Program, this special edition will also cover the NWC Graduate Long-Term Training Program.

Copies of this special edition are being sent to each department office, in addition to regular distribution.

Anyone interested in either of these two programs, should contact Bill Bethke, Academic Fellowships Office, NWC ext. 2349.

Cerro Coso College offers quality assurance classes

Quality assurance is a planned and systematic pattern of necessary actions to provide adequate confidence that a product will conform to established requirements. The tasks of quality control, inspection, testing and statistical or quantitative reliability must be performed to provide this confidence.

Cerro Coso Community College offers a new certificate and degree program in quality assurance. The Quality Assurance Program provides a solid background in the theory and practice of quality assurance concepts and techniques in a broad range of classes including Human Relations, Business Management, Electronic and Mechanical Inspection, Quality Assurance Applications and Statistical Techniques.

In the Fall of 1988, structured interviews with more than 40 department and division heads among the technical service agencies and businesses within Cerro Coso's service area were conducted. These interviews were designed to determine whether additional programs should be provided by the college, what those programs might be and what changes in existing programs were needed. A strong need for an instructional program at the technician level in quality assurance proved evident.

Cerro Coso's new program is designed to provide students for an entry level career in quality assurance through core instruction; provide skill upgrading for students equivalent to those required for federal quality assurance specialists; and provide optional training in mechanical and electrical quality assurance.

For a complete listing of quality assurance classes being offered, contact the Vocational Education Department at 375-5001.

Secretarial...

(Continued from Page 15)

No. 39-034, Secretary (Typing) DG-318-2/3, Code 39B1, Incumbent will provide secretarial support to the Advanced Technology Applications Office. Experience with the Macintosh PC is desirable, but not required. Applicants must be able to obtain and maintain a Top Secret security clearance based on a Special Background Investigation. Promotion potential to DG-3, but not guaranteed. Area of recruitment/consideration is limited to the Laboratory Directorate (03).

For more training information, contact the Training Center at NWC ext. 2415.

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Deadline is October 15

Applications for long-term training are being accepted



Applications for NWC-sponsored long-term graduate level training are invited from NWC employees. Long-term training is defined as training off Center for a period of more than 120 consecutive working days. To be eligible for long-term training, interested individuals should be employed at NWC for at least three years at the time studies begin.

Long-term training may be considered to meet any of the following objectives:

1. To update employees' knowledge where several years have passed since they have completed or left academic or in-service training.
2. To give technical employees management skills when job responsibilities have, or will become, managerial.
3. To update employees' knowledge and background in their job specialty.
4. To teach employees aspects of another occupation that relates to their present occupation where responsibilities are interdisciplinary or multidisciplinary.

The Long-Term Training Committee (LTTC) will consider applications in any area of study that relates directly to NWC program requirements. The primary criteria the LTTC follows in determining when long-term training is used instead of after-hours, part-time or short-term programs are as follows:

1. The new knowledge and skills required of the employee, either in present or planned career assignments, necessitate a comprehensive, concentrated program of study.
2. The time span for acquisition of new skills and knowledge is such that an accelerated study program of long-term full-time duration is required.
3. It is determined that the academic superiority of the institution selected is such that it is clearly in the best interest of the government that the employee attend the selected educational institution.
4. There is no educational institution or academic program in the local or community area for part-time or after-hours training.

The following areas of critical need have been established by center management: systems engineering; microwave/RF circuits, subsystems and

missile guidance, antennas, and radar engineering; microwave antennas; digital and analog signal processing; missile test equipment; target signatures-- modeling and reduction; radar, laser, EO-IR targeting sensors; weapons/avionics integration; tactical embedded software; facility simulation software; air combat susceptibility/vulnerability; EW systems; propulsion; operational research/analysis; statistics; advanced structural engineering (aerodynamics - CFD, aerospace - thermal, structures); financial/business systems analysis; physics (electro magnetism); electrical engineering - high voltage, short - rise time power; physics/engineering -- detonation mechanics, interior ballistics, combustion; modern digital signal processing - ISAR, SAR; RF active array theory/practice; avionics system engineering; chemistry - organometallic/solid state synthesis, laser spectroscopy and electrochemistry.

Code 2241 funds will pay for the trainee's salary (including MTP), the cost of tuition, payment of travel to and from school, and a reduced rate per diem to cover the cost of housing while at school.

Further details of the NWC sponsored Long-Term Training Program are provided in NAVWP-NCENINST 12410.5M of November 12, 1987, and in the Long-Term Training Handbook, IDP 3511. Both sources are available from department offices or from the Training Center.

HOW TO APPLY

Interested employees will need to submit to the Academic Fellowships Office, Code 2241 an original and seven copies of the following:

1. NWC LTT Nomination Form (NAVWP-NCEN 12410/85) including attachments; and
2. A memorandum of endorsement/nonendorsement signed by their department head addressed to the Chairman, Long-Term Training Committee, Code 2241.

NWC LTT Nomination Forms are available from Code 2241, Rm 212 in the Training Center (Bldg. 00947).

APPLICATION DEADLINE IS OCT. 15.

To avoid confusion and obtain guidance on LTT application policies and procedures, it is strongly recommended that employees contact the Academic Fellowships Office to discuss their intentions.

Information, counseling and assistance about long-term training is available from Bill Bethke or Sue Swett, Academic Fellowships Office, Code 2241, NWC ext. 2349.

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MWR UPCOMING EVENTS



- Friday, September 7th**
•Seafarer Lunch Special-California Beef
- Saturday, September 8th**
•Golf Course has new China Lake logo items!
•Matinee, NWC Theater, 2 p.m., All Dogs Go To Heaven
- Sunday, September 9th**
•Open Roller Skating, Youth Center, 1-4 p.m.
•Brunch, Seafarer Club, 10-2 X2581
- Monday, September 10th**
•Seafarer Lunch Special-French Dip
•Grilled Steak/Chicken 11 a.m. to 1 p.m. •Seafarer
- Tuesday, September 11th**
•CRAFTECH Daytime Classes • Sign-up Today!
•BINGO MADNESS-Seafarer, 7:00 p.m. X2581
•Seafarer Lunch Special- Sloppy Joes
- Wednesday, September 12th**
•Mid-week stress? Come play 18 at the Golf Course!
•Call for Information on " Jazzercise" X6542
•Seafarer Lunch Special-Crab Salad
- Thursday, September 13th**
•Seafarer Lunch Special-Taco Salad
•Sign-up for the 1990 Mini Triathlon • X6542

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Navy Birthday party set

NWC celebrates with October 14 bash in Michelson Lab

Visitors will be welcome at the Naval Weapons Center's Michelson Laboratory to help celebrate the 215th birthday of the U.S. Navy on Sunday, October 14. The lab will be open to visitors from 11 a.m. until 3 p.m. This celebration also marks the 47th year as part of the Navy family for NWC and its predecessor, the Naval Ordnance Test Station (NOTS).

The Navy Birthday Celebration at NWC will include static displays of weapons systems developed at China Lake, computers used in research, development, test and evaluation efforts, other technical exhibits and video tapes about the area and the mission of NWC will be shown.

Key NWC officials are also expected to give brief talks about the Center and specific projects and aircraft used in carrying out the China Lake mission will be exhibited in the main Michelson Laboratory parking lot during the celebration.

Among the aircraft expected to be displayed are the F/A-18 Hornet, AV-8B Harrier, A-6E Intruder and the A-7E Corsair II.

Visitors to the Navy Birthday Celebration are encouraged to wear comfortable walking shoes and to bring their cameras.

NWC's Morale, Welfare and Recreation Division will have booths selling refreshments and souvenir items throughout the day.

Gene Younkin earns top NWC award

(Continued from Page 1)
participant in developing the first Sidewinder hardware-in-the-loop simulation at Eastman Kodak and in the integration of the Sidewinder onto Marine Corps helicopter platforms.

Currently he conducts theory of operation classes, performs effectiveness studies, documents Sidewinder history and continues to maintain Sidewinder firing archives.

A China Laker since he began as a junior professional physicist in the Research Department's Exterior Ballistics Branch, he has been associated with the Sidewinder program since joining the Weapons Development Department in 1959.

In 1977, he left NWC for a year to become the air-to-air technical coordinator for Top Gun at Naval Air Station, Miramar. During his career, he has had numerous technical papers and articles published and

received awards and letters of appreciation, culminating with the Navy Civilian Meritorious Service Award.

After receiving the award, Younkin noted much of his career

had been spent working with the Sidewinder simulation and said Dr. Frank Cartwright, a former long-term NWC employee, had been responsible for getting him involved in that arena.



SPECIAL HONOR—Gene Younkin proudly shows his wife, Elva, the certificate he received with the Navy Meritorious Civilian Service Award.

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Joint effort supports drilling wells for data on water quality

Cooperation between the Bureau of Reclamation, Navy, Indian Wells Valley Water District and Kerr McGee Chemical Co. will bring significant new data on the water supply under the Indian Wells Valley (IWV) and the quality of that water.

As many as 10 monitoring wells on public lands will be drilled throughout the valley during the next three months. Each of these wells will become permanent monitoring sites where data on water level and quality will be tested.

A drilling rig brought in by the Bureau of Reclamation, lead federal agency for the project, began work on the first test well last Sunday morning. Working on Naval Weapons Center land in the old Lane Haven Trailer Park, drillers worked around the clock early this week to reach the 2,000 foot level.

Gail Moulton, chairman of the technical subcommittee of the Water Steering Committee, contracting for the work, said the goal was to develop as much data as possible about geologic formations that underlie the valley and water quality below 1,000 feet. He noted most production water wells in the area are no more than 1,000 feet deep, thus there isn't any real data on the aquifer and valley structure below that level. A series of geohydrologic tests will be conducted to gather this data from the wells.

Brad Augustine from the Bureau of Reclamation's Boulder City, Nev. office, said there were two

drilling crews so the work could go on around the clock.

While the Technical Committee plans expects the next well to be drilled in the Dixie Wash area, Augustine said, "all drilling is dynamic. What you do next depends on what you find as you go along," thus plans for Dixie Wash drilling could be changed based on what this first test well shows up.

Plans could also change because of equipment problems. Augustine noted there had been several minor mechanical troubles in the first day of work. He also said drilling would probably be a little bit harder in Dixie Wash because it was closer to the Sierra and had the rockier soil structure of an alluvial fan at the base of the mountains.

Moulton, the Kerr-McGee representative on the committee said the hope is this research will result in a much more accurate and realistic assessment of just how much water is in the valley and how good it is.

Half the estimated \$1 million cost is being paid by the Bureau of Reclamation, while NWC, the water district and Kerr-McGee are sharing the other half equally. Other members of the technical subcommittee are Don Decker, representing the IWV Water District; Mike Stoner, representing NWC; Dennis Watt, Bureau of Reclamation representative and Ken Turner, Kern Water Agency representative.

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MONITORING WELL--Drilling crews hired by the Bureau of Reclamation began work on the first of as many as 10 monitoring in the IWV. NWC, Kerr-McGee, IWV Water District and the bureau share the costs. Photo by PH3 Cary Brady

Positions open at NWC...

(Continued from Page 14)

procedures; Knowledge of affirmative action principles including a willingness to implement EEO practices. Promotion potential to DP-4, but not guaranteed.

No. 22-007, Personnel Clerk/Assistant (Typing), DG-203-A/1/2, Code 226 - Incumbent performs the following duties for a major department(s): processes all actions affecting appointments, pay setting, separations, conversions of appointment, etc.; performs competitive and non-competitive qualification ratings; performs ranking and may conduct ranking/selection panels; and drafts vacancy announcements for recruitment. At the higher levels, incumbent advises and recommends to supervisors and managers recruitment options for certain occupations (e.g. clerical); participates in various phases of crediting plan development. **Job Relevant Criteria:** Knowledge of personnel policies and procedures related to staffing; ability to plan, organize, and accomplish work independently; ability to perform a variety of clerical/technical functions; ability to research, comprehend, and apply complex regulatory information. Promotion potential to DG-3. Previous applicants need not reapply.

No. 31-064, Supervisory Interdisciplinary, (General/Mechanical/Aerospace Engineer), DP-801/830/861-3/4, Code 3182 - This position is Head of the Weapons Survivability Laboratory (WSL) Branch in the Survivability and Lethality Division of the Aircraft Weapons Integration Department. The incumbent will direct a multi-disciplined staff of engineers and technicians which support air weapons systems survivability and lethality testing under simulated combat conditions as well as experimental evaluation of technology exploration concepts. The position includes duties as the technical monitor on delivery order contracts for the on site support contract work force of approximately 34 personnel. Duties also include administration of the WSL Service Center accounting system. **Job Relevant Criteria:** Knowledge of the air combat survivability discipline; knowledge of joint service programs; knowledge of tactical operations; knowledge of aircraft subsystems (i.e. propulsion, fuel systems, flight controls, etc.); knowledge of lethality, weapons effects, and safe arm requirements; knowledge of instrumentation techniques, ordnance operations, and explosive safety procedures; knowledge of affirmative action principles including a willingness to implement EEO practices; ability to effectively deal with NAVAIR sponsors and personnel of diverse backgrounds; ability to plan, organize, coordinate, and manage technical programs. The incumbent may be required to serve a one-year supervisory probationary period. The full performance level of this position is DP-4. Previous applicants need not reapply.

No. 31-065, Supervisory Engineering Technician, DP-802-3/4, Code 3182 - This position is Head of the Weapons Survivability Laboratory (WSL) Branch in the Survivability and Lethality Division of the Aircraft Weapons Integration Department. The incumbent will direct a multi-disciplined staff of engineers and technicians which support air weapons systems survivability and lethality testing under simulated combat conditions as well as experimental evaluation of technology exploration concepts. The position includes duties as the technical monitor on delivery order contracts for the on site support contract work force of approximately 34 personnel. Duties also include administration of the WSL Service Center accounting system. **Job Relevant Criteria:** Knowledge of the air combat survivability discipline; knowledge of joint service programs; knowledge of tactical operations; knowledge of aircraft subsystems (i.e. propulsion, fuel systems, flight controls, etc.); knowledge of lethality, weapons effects, and safe arm requirements; knowledge of instrumentation techniques, ordnance operations, and explosive safety procedures; knowledge of affirmative action principles including a willingness to implement EEO practices; ability to effectively deal with NAVAIR sponsors and personnel of diverse backgrounds; ability to plan, organize, coordinate, and manage technical programs. The incumbent may be required to serve a one-year supervisory probationary period. The full performance level of this position is DP-4. Previous applicants need not reapply.

of the Weapons Survivability Laboratory (WSL) Branch in the Survivability and Lethality Division of the Aircraft Weapons Integration Department. The incumbent will direct a multi-disciplined staff of engineers and technicians which support air weapons systems survivability and lethality testing under simulated combat conditions as well as experimental evaluation of technology exploration concepts. The position includes duties as the technical monitor on delivery order contracts for the on site support contract work force of approximately 34 personnel. Duties also include administration of the WSL Service Center accounting system. **Job Relevant Criteria:** Knowledge of the air combat survivability discipline; knowledge of joint service programs; knowledge of tactical operations; knowledge of aircraft subsystems (i.e. propulsion, fuel systems, flight controls, etc.); knowledge of lethality, weapons effects, and safe arm requirements; knowledge of instrumentation techniques, ordnance operations, and explosive safety procedures; knowledge of affirmative action principles including a willingness to implement EEO practices; ability to effectively deal with NAVAIR sponsors and personnel of diverse backgrounds; ability to plan, organize, coordinate, and manage technical programs. The incumbent may be required to serve a one-year supervisory probationary period. The full performance level of this position is DP-4. Previous applicants need not reapply.

of the Weapons Survivability Laboratory (WSL) Branch in the Survivability and Lethality Division of the Aircraft Weapons Integration Department. The incumbent will direct a multi-disciplined staff of engineers and technicians which support air weapons systems survivability and lethality testing under simulated combat conditions as well as experimental evaluation of technology exploration concepts. The position includes duties as the technical monitor on delivery order contracts for the on site support contract work force of approximately 34 personnel. Duties also include administration of the WSL Service Center accounting system. **Job Relevant Criteria:** Knowledge of the air combat survivability discipline; knowledge of joint service programs; knowledge of tactical operations; knowledge of aircraft subsystems (i.e. propulsion, fuel systems, flight controls, etc.); knowledge of lethality, weapons effects, and safe arm requirements; knowledge of instrumentation techniques, ordnance operations, and explosive safety procedures; knowledge of affirmative action principles including a willingness to implement EEO practices; ability to effectively deal with NAVAIR sponsors and personnel of diverse backgrounds; ability to plan, organize, coordinate, and manage technical programs. The incumbent may be required to serve a one-year supervisory probationary period. The full performance level of this position is DP-4. Previous applicants need not reapply.

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

No. 28-010, Secretary (Typing), DG-318-1/2, Code 2842 - This position is located in the Computer Resources Management Branch, Financial Information Systems Division, Office of the Comptroller. Incumbent provides secretarial and administrative support to the Head of the Computer Resources Management Branch and the branch personnel. Wordprocessing experience is desirable. Promotion potential to DG-2, but not guaranteed.

No. 28-011, Secretary (Typing), DG-318-1/2, Code 2841 - This position is located in the Financial Systems Branch, Financial Information Systems Division, Office of the Comptroller. Incumbent provides secretarial and administrative support to the Head of the Financial Systems Branch and the branch personnel. Wordprocessing experience is desirable. Promotion potential to DG-2, but not guaranteed.

No. 31-062, Secretary (Typing), DG-318-1/2, Code 3191 - This position can be filled by one full time

person or by two part-time persons. The incumbent will provide secretarial and administrative support to the Systems Engineering Branch. Knowledge and working skills on the Macintosh PC is desirable. Must be able to obtain and maintain a Top Secret Clearance. Promotion potential to DG-2. The area of consideration for this position is the 03 Directorate. Previous applicants need not reapply.

No. 34-007, Secretary (Typing), DG-318-2, Code 343 - This position is located in the Library Division staff office. The incumbent provides secretarial support for the Division Head, Administrative Officer, and Branch Heads. Knowledge and working skill with the Macintosh computer is desirable. Ability to maintain a customer service attitude and work well with all members of the staff is essential. This is a full-time position but may be filled by two part-time people. Promotion potential to DG-3.

(Continued on Page 16)

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Personnel News & Notes

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. 00-006, Facility Management Specialist, DA-1640-1, Code 033 - The incumbent performs the duties of a Facility Management Specialist for all buildings within the Michelson/Lauritsen Laboratory Compound. Responsibilities include Program Monitoring, Financial Administration, Facilities Analysis, Facilities Focal Point and FES planning. Incumbent is responsible on a daily rotating basis for after hour emergency call back duty. **Job relevant criteria:** Ability to deal effectively with all levels of personnel/management. Knowledge in the areas of safety, fire protection, general maintenance/repair, utilities, and energy conservation; knowledge of FES planning procedures; ability to interpret complex written material.

Promotion potential to DA-3. **No. 25-014, Procurement Clerk (Typing) DG-1106-1, Code 256** Incumbent prepares and reviews standard correspondence, reports and other documents ensuring proper grammar, spelling, punctuation, and format. Processes routine administrative documents by researching and applying laws, rules, instructions, and/or regulations of the specialty area. Provides typing support at not less than the minimal level of proficiency (40 WPM), prepares complex charts, reports and technical documents. **Job Relevant Criteria:** Knowledge of correspondence regulations and contractual terminology; ability to meet with people effectively and prioritize work under heavy workload conditions. Promotion

potential to DG-3, however it is not guaranteed.

No. 26-024, Production Facilities Clerk, DG-303-A/1/2/3, Code 2633 - This position is located in the Public Works Department, Engineering Division, Engineering Support Branch. Duties include receiving, logging, and distributing all work requests, issuing contract numbers, preparing construction documents for typing, review, and bid, and procuring funding documents. This position also schedules the engineering effort, maintains the work request database, and communicates with all project design engineers and management. **Job Relevant Criteria:** Ability to learn DOS and VMS computers, spread sheets and word processing; ability to communicate both orally and in writing; ability to deal with all levels of personnel. Full performance level: DG-3. Previous applicants need not reapply.

No. 26-030, Architectural Technician, DT-802-A, Code 2633 - This position is located in the Public Works Department, Engineering Division, Engineering Support Branch. Incumbent is responsible for preparation of architectural drawings and documentation. Tasks include field work, cost estimating, application of codes, adhering to design schedule dates, project reviews, and reviews of contractor submittals. Support architects and engineers. **Job Relevant Criteria:** Ability to communicate both orally and in writing; ability to deal with all levels of personnel. Promotion potential to DT-2.

No. 28-009, Accounting Technician, DG-525-1/2/3, Code 2862 - This position is located in the Cost Accounting Branch of the Accounting Division of the Office of the Comptroller. Incumbent will serve as an Accounting Technician in the control and maintenance of cost accounting records and subsidiary ledgers for the Cost Accounting Branch. Duties include the review of incoming contracts and contract amendments for accuracy and completeness; reconciling subsidiary ledger accounts; extracting necessary information from source documents, collating the data and preparing forms to enter the data into the automated system; auditing computer outputs for accuracy; validating historical costs and transactions; and researching aged financial information to clear accounts. Incumbent has extensive contact with NWC project, budget, and supply personnel, and provides information on various vendor inquiries. **Job relevant criteria:** Knowledge of integrated disbursing and accounting system; knowledge of Document Entry System; knowledge of NWC accounting system; knowledge of NAVCOMPT regulations. Ability to work accurately with figures; ability to meet financial work

deadlines; ability to deal effectively with people. Promotion potential to DG-3. (multiple vacancies)

No. 28-012, Budget Analyst, DA-560-3/DP-560-3, Code 2837 - The incumbent is involved in preparing budgets and plans; preparing, monitoring, and evaluating financial reports and budgets; providing ongoing day-to-day advice and recommending financial solutions to managers with problems in the budget area. Responsible for responding directly to requests for information regarding the NWC budget from local management and off-Center financial management personnel. **Job relevant criteria:** Ability to gather and analyze raw financial data; ability to prepare clear and concise written and oral communications; ability to deal tactfully and effectively with all levels of personnel and management; ability to function effectively as a team member. Promotion potential to DP-3. (2 vacancies.)

No. 30-008, Supervisory Interdisciplinary General/Mechanical/Electrical/Electronics/Aerospace Engineer/Mathematician/Computer Scientist/Operations Research Analyst, DP-801/830/850/855/861/1520/1550/1515, Code 3031 - Branch Head Operations Branch, WEPTAC Program in the Weapons Planning Group. WEPTAC is a computer based, interactive wargaming facility providing man-in-the-loop simulations to evaluate the effectiveness and utility of weapons, weapons systems, platforms, sensors and tactics. The incumbent provides overall direction, coordinations, and management of branch activities. Technical responsibilities include overseeing development of proposals for new projects, interface between project leaders and sponsors in the concept, prosecution, reporting and briefing of projects, and followup on the accuracy and utilization of project efforts. **Job Relevant Criteria:** Knowledge of Naval weapons systems and tactics; ability to perform as a first-line supervisor; ability to plan, organize, coordinate, and manage a program; knowledge of affirmative action principles including a willingness to implement EEO practices; ability to communicate orally; ability to communicate in writing. May be required to serve a one year supervisory probation period. Must be able to obtain and maintain a Top Secret clearance.

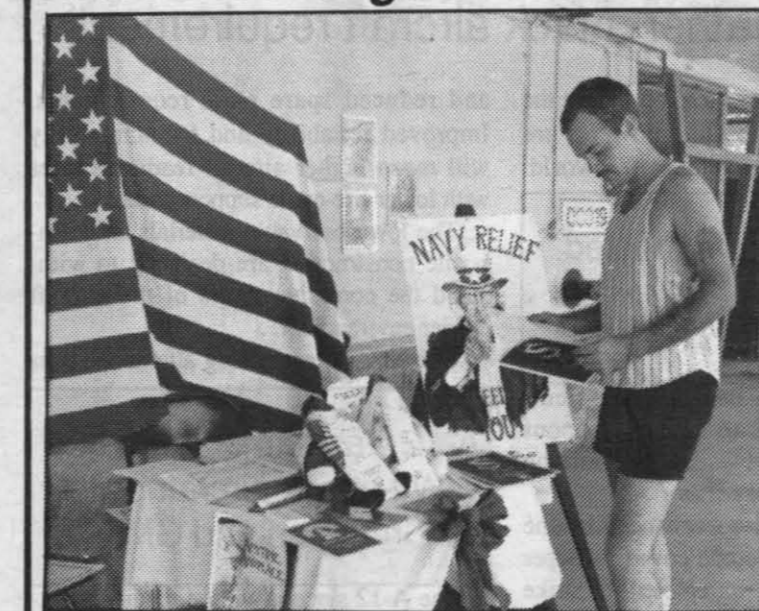
No. 34-009, Technical Information Specialist DA-1412-2/Librarian DA-1410-2, Code 3433 - This position is located in the Technical Services Branch of the Library Division. The incumbent will provide professional and technical support for the acquisition of library materials and the cataloging of technical reports. **Job relevant criteria:** Knowledge of library processes and procedures; knowledge of basic refer-

ence resources; knowledge of MARC formats for bibliographic data; knowledge of online library systems; knowledge of NWC procurement system; knowledge of personal computers and their operation. Ability to communicate effectively orally and in writing; ability to analyze data and write proposals; ability to provide evaluation of costs, supplies and other library information; ability to perform online reference and research; ability to work effectively with various levels of personnel. Promotion potential to DA-3, but not guaranteed.

No. 34-008, Supervisory Librarian (Physical Science & Engineering), DA-1410-3/DP-1410-3, Code 3431 - This position is that of Branch Head in the Information Services Branch, Library Division, Technical Information Department. The incumbent will organize and control all functions associated with the reference and circulation services such as collection development, indexing, literature searching, developing information systems and collection maintenance. **Job relevant criteria:** Knowledge of the theories, principles, and techniques of librarianship; knowledge of literature resources in the Physical Science and Engineering disciplines; knowledge of NWC personnel policies and procedures; knowledge of RLIN, DTIC and online library systems; a willingness to support NWC EEO policies and goals. Applicant must complete one year supervisory probationary period if not previously completed. Promotion potential to DP-3.

No. 39-035, Supervisory Interdisciplinary General Engineer/Mechanical Engineer/Electronics Engineer/Aerospace Engineer/Physicist/Mathematician, DP-801/830/855/861/1310/1520-3/4, Code 3954 - This position is Head, Radio Frequency System Branch, Radio Frequency Division, Intercept Weapons Department. The branch is responsible for design and analysis of RF systems for air-launched weapons. The incumbent's duties include directing and participating in technical tasks of the personnel being supervised, developing and expanding the technology base of the branch, developing and expanding the product base of the branch, personnel administrative management for the branch. **Job relevant criteria:** Knowledge of transmitters, receivers, signal processing and/or RF guidance systems; Knowledge of RF systems and subsystems, radar seekers and electronic counter-countermeasure techniques; Ability to interface with and make presentations to NWC management and sponsors; Ability to communicate in writing; Ability to communicate orally; Ability to deal effectively with people; Knowledge of NWC personnel policies and procedures; knowledge of basic refer-

NRS training class next week offers wide range of information



NRS INFORMATION--AOAN Mark Howard looks over information about the Navy Marine Corps Relief Society. Next week marks the start of the Navy-Marine Corps Relief Society training session. Dependents of active duty military members, in particular of enlisted members, are urged to attend and learn about the Navy and Marine Corps. Free day care is available to those attending. The class will teach skills needed to by an NRS volunteer for those interested and provide a great deal of information of use to any military spouse. This includes information on pay and allowances, volunteer programs and Navy opportunities. Call the NRS Office at NWC ext. 2921 for more information and to make the free day care arrangements. Photo by PH3 Cary Brady

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(Continued on Page 15)

Waste disposal for NWC only

Only residents of the Naval Weapons Center are eligible to use the Hazardous Waste Clean-up Day on Sept. 29 to legally dispose of household hazardous products. The Environmental Services Office and the Safety Program Office are sponsoring the disposal day in conjunction with NWC's Fall Clean-up Day.

John Slater of the Hazardous Waste Management Branch stressed this was for wastes of on-Center residents only, not the general public and not for work-generated wastes.

Kern County is planning a free hazardous waste

disposal day for the general public in the Indian Wells Valley this fall. At that time, IWV residents will be able to easily dispose of their unwanted hazardous wastes.

From 8 a.m. until noon on Sept. 29, NWC residents can bring unwanted paint, paint thinner, pesticides, household cleaners, auto care products, and lawn care products to the west parking lot of Building 981 in the NWC Public Works Department compound. Explosive and radioactive materials will not be accepted for disposal at this time. Please leave all materials in original containers with factory labels.

Edwards schedules annual air show for October 6

Edwards Air Force Base will open its gates to the public on Saturday, Oct. 6, for Air Force Flight Test Center's (AFTC) Retired Air Force Brigadier General Chuck Yeager will start

morning and afternoon aerial exhibitions with the traditional sonic boom in an F-4 Phantom II. The air show will be highlighted by a variety of civilian demonstration teams. Flying activities include performances by test

pilots from the AFTC in various military aircraft.

The large static display area is expected to include most aircraft in the current Air Force inventory, plus many one-of-a-kind test and research aircraft.

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Some A-12 data declassified and released

Avenger designed to meet the Navy's 21st Century all-weather attack aircraft requirement

Selected information on the A-12 "Avenger," the Navy's planned new-generation attack aircraft, has been declassified and released by the Naval Air Systems Command. "Avenger" is to replace the A-6E "Intruder," the Navy's primary attack aircraft for the past 27 years, in providing all-weather, day/night attack of both fixed and mobile sea and land targets in support of the Navy's mission. Development of the A-12 is the culmination of several years of study of 21st Century attack aircraft requirements.

Avenger designed to be effective against all known and projected threats.

Low-observable technology, greater speed and advanced weapon and survivability systems will enable the A-12 to penetrate the most sophisticated defenses and deliver greater quantities of ordnance with precision and at less risk to the flight crew than any previous naval aircraft. The "Avenger" has been designed to be effective against all known and projected threat weapon systems and, like the A-6E, will be manned by two crew members, a pilot and a bombardier/navigator.

The principal test site for the A-12 will be the Patuxent River Naval Air Test Center in Maryland, but other test sites will include the Naval Weapons Center and contractor facilities in Oklahoma. Navy operational evaluation will be performed

by Air Test and Evaluation Squadron Five at China Lake and other locations representative of the operational environment.

The A-12 fixed-price incentive contract for full-scale development (FSD) was awarded to the contractor team of McDonnell Douglas/General Dynamics for a ceiling price of \$4.78 billion. Other research and development costs totalling approximately \$800 million include funds for concept formulation, demonstration/validation and for Navy laboratories and field activities that support the A-12 program.

Over the life of the program, the Navy plans to buy a total of 620 aircraft. Eight aircraft are being build for the full-scale development program. The first lot of six aircraft, funded in Fiscal Year 1990, will be used to support the operational test and evaluation and fleet introduction of the A-12. The A-12 airframe will have a projected service life of 20 years.

The "Avenger" represents substantial improvements in war fighting capability and will fly farther and faster than the A-6E with a greater weapon payload. The A-12 is capable of using all weapons currently used by the A-6E. Its significant offensive and defensive air-to-air capabilities

Naval power will be enhanced by the A-12's ability.

will enhance mission flexibility. It will be capable of penetrating sophisticated mis-

sile defense systems which, no longer the sole property of the superpowers, are widely dispersed throughout the world.

The Avenger is expected to have double the reliability of the A-6E.

Extremely accurate navigation systems will allow the A-12 to deliver weapons with exceptional precision, minimizing damage to non-military sites.

Naval power will be enhanced by the A-12's ability to penetrate covertly deeper into enemy territory, unrefueled, to strike targets beyond the reach of current sea-based aircraft, and bring the crews home safely.

A number of advanced systems are being incorporated to enhance the survivability of the A-12. The automated electronic cockpit will provide the crew with a variety of systems to aid in detection and avoidance of enemy threats, including an electronic support measures system and missile warning system for early identification of enemy radars and guided missiles. Effects of battle damage will be minimized through the use of inert nitrogen charged fuel cells, multiple redundant electrical and hydraulic systems and other survivability features.

"Avenger" is expected to have double the reliability of the A-6E, while needing only half the maintenance manhours (lower than for any other Navy aircraft),

and reduced spare parts requirements. Improved reliability and maintainability will mean higher aircraft readiness rates with lower life-cycle support costs.

The low observable materials and composite construction are designed to withstand the corrosive rigors of the aircraft carrier environment.

The Navy is examining alternative uses

A-12 was named after the WWII attack aircraft built by Grumman and GM.

for the A-12 since it will be readily adaptable to other mission requirements. The "Avenger's" electronic displays, high-speed fiber optic data bus, Very High Speed Integrated Circuit technology, programmable processors and large weapon bay capacities would facilitate adaptation. Use of the A-12 airframe and systems for other missions would reduce the number of different types of aircraft deployed on carrier decks and minimize the need for development and procurement of various types of aircraft.

The A-12 was named "Avenger" after the World War II attack aircraft built by Grumman and General Motors. It was the first attack aircraft with radar, carried a wide variety of equipment and ordnance and could attack at long range, day or night. The parallel led to the selection of "Avenger" as the name of the Navy's next generation primary attack aircraft.

Police radar patrols announced

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

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

listed below.

- Monday -- Burroughs Road.
- Tuesday -- South Knox Road.
- Wednesday -- Randsburg Wash Road.
- Thursday -- Poleline Road.
- Friday -- Lauritsen Road.

Violations may be cited at any time, as well as in areas of NWC other than those cited in the above schedule.

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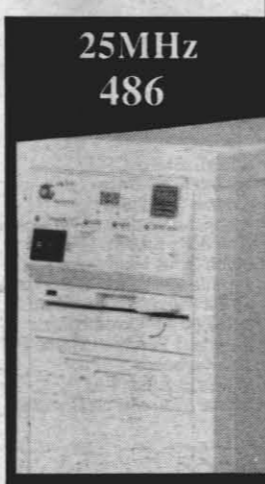


See A-12 Avenger artist's conception photo on Page 1.

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Dam Tough Run takes place September 30

Applications are being accepted for the upcoming Dam Tough Run at Lake Isabella. Runners can choose being part of the relay race, consisting of four legs, or run the entire 38.6 miles as an ultramarathon. Scheduled for Sunday, Sept. 30, the 6th Annual Dam Tough Run is sponsored by the Lake Isabella Chamber of Commerce.

Early registration fees are \$20 for ultramarathoners and \$64 for relay teams. After Sept. 22, registration fees increase to \$30 per ultra and \$80 per relay team. Each participant will receive a distinctive, high-quality t-shirt upon registration.

The races, starting at 7 a.m., begin at Kern Valley Vets Hall/Senior Center, proceeds across the Auxiliary Dam, counterclockwise around Isabella Lake, returning to the community of Lake Isabella and ending at Lake Isabella Park. This is a new location for the finish line. Aid stations will be available every three miles to mile 19, more frequently thereafter. The entire course will be monitored by the Amateur Radio Club of the Kern River Valley.

Awards for the relay will be given in three divisions and seven age groups. Teams with less than four runners are not eligible for awards. For the ultramarathon, first to third place awards will be given in six age groups -- 19 and under; 20-29; 30-39; 49-49; 50-59 and 60 and over.

To receive an entry form, or for more information, simply call the Lake Isabella Chamber of Commerce at (619) 379-5236, or write to them at P.O. Box 567, Lake Isabella, CA 93240.

The day before the race, Saturday, Sept. 29, there will be a free buffet dinner for all entrants from 4-7 p.m. The buffet is open to the public and the runners' families for a nominal fee.

Proceeds from the race aid the Kern Valley Hospital Foundation, Kern Valley Search and Rescue and the Kern County Sheriff's Reserves.

Hunting seasons announced for doves, pigeons and crow

Following is the 1990-91 hunting seasons for mourning dove, band-tailed pigeon and American crow.

Mourning and white-winged dove
 Zone: Statewide (white-winged doves take restricted to Imperial, Riverside and San Bernardino counties).

Season: Sept. 1-15 and Nov. 10-Dec. 24.
 Bag limit: 10 daily, 20 in possession.
 Shooting times: one-half hour before sunrise to sunset.

Band-tailed pigeon
 Zone: Alpine, Butte, Del Norte, Glenn, Humboldt, Lassen, Mendocino, Modoc, Plumas, Shasta, Sierra, Siskiyou, Tehama and Trinity counties.

Season: Sept. 15-30.
 Zone: Balance of the state.
 Season: Dec. 8-23.

Bag limit: 2 daily, 2 in possession.
 Shooting times: one-half hour before sunrise to sunset.

American crow
 Zone: Statewide.
 Season: Sept. 29-Jan. 30.
 Bag limit: 24 daily, 24 in possession.

The Department of Fish and Game has initiated a hotline for information on California's 1990 dove hunting season. Interested individuals can call (213) 590-5045 for statewide information on the season.

Hitter's plans softball tourney

Hitter's third annual Fall Co-ed "C/D/Novice" Slowpitch Softball Tournament takes place on Sept. 29-30.

Prizes will be given for every game each team plays, along with individual prizes for the top two teams and sponsor trophies for the top three teams. Selected games will be taped and the videos will be shown that same day.

The entry fee is \$140, with the entry deadline being Sept. 21. For more information, contact Del R. Kellogg at 446-3152 or Hitter's Restaurant at 375-2901.

Earlier the entries, better the heat times in mini-triathlon

Entries are now being accepted for the Mini-Triathlon '90. Forms can be picked up at the Naval Weapons Center Gym Annex (Weight Room) in Building 21.

Sponsored by the Morale, Welfare & Recreation Sport Branch, this annual event, which is scheduled for Oct. 13, includes a half-mile swim, 25-mile bicycle race and a 6.2 mile run. Divisions will be broken into men's and women's individual with an age breakdown of 18-29, 30-39, 40-49 and 50-59. Divisions for teams will include men's, women's and mixed (teams will not have an age breakdown).

The first heat will begin at 8 a.m., with additional heats at 8:30, 9, 9:30, 10, 10:30, 11 and 11:30 a.m. Contestants will select their heat (indicate first, second and third choice) at the time they submit their entries. For the best selection of heat times, register early.

Entry fees are \$20 per person prior to Oct. 1. Entries received on or after Oct. 1 will cost \$23. Checks should be made payable to MWR-REC and

hand delivered to the Gymnasium Annex, or mailed to Sports Branch, Code 2294, MWR Division, Naval Weapons Center, China Lake, CA 93555. The annex will be open for hand delivered entries from 9 a.m. to 5 p.m., Monday through Friday. Contestants who mailed in their entries should call NWC ext. 6542 after Oct. 4 to verify their heat times. Please make sure both sides of the entry forms have been completed and signed.

All participants will receive a t-shirt and individual awards will be given out for first and second place in the individual divisions. In the team divisions, awards will be given out for the first place finishers. In addition, the "best overall man" and "best overall woman" will be given a special award.

Volunteers are needed to help make this year's event the best ever. Anyone who would like to help should call NWC ext. 6542.

Entries are limited to the first 96 contestants, so hurry and enter today!

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Crooked Creek is the fishing spot in Eastern Sierra region

Fishing has slowed down in the Big Pine area, but for those anglers with patience and good techniques, it is still possible to have a good catch, notes the Bishop Chamber of Commerce. On Upper Big Pine Creek, try using a roostertail, preferably a yellow coachdog and fish in the shadows. For the lower Big Pine Creek, use crickets.

Around the Wild Trout area near Bishop, try a wet Admas or a blue dun emerger. The lower Owens River is releasing bass to anglers using a rapala or a chartreuse bushwhacker.

South Lake has been very productive. A rapala or any spinner bait will bring in trout in the 3/4 lb. range. Try fishing the shore from the boat dock area or down by the water inlet for an occasional brown, especially in the early morning or late evening. Lake Sabrina is also releasing catches. From the shore, try the spillway using powerbait or nightcrawlers. Trollers should use a Dave Davis trailing a worm or lead core line with needlefish. The best spot for trolling is at the inlet. Be sure to go down 4 to 6 colors.

At Rock Creek Lake, green is still the predominant color. For trolling, try a wet fly, super duper or needlefish. Again, fishing skills determine whether the day is successful or not.

While fishing has slowed at Convict Lake, it is still worth going for a relaxing day. Shore fishing is best at the back of the lake by the breakwater. Try using powerbait, either orange or yellow. If trolling, go down to 8 colors.

Crooked Creek in the Crowley Lake area is the spot. Use a wooley bugger, hornberg or an olive matuka. Forget about perch fishing, as they

have already spawned. If fact, their eggs are what the trout are moving in to eat. Boat access to Crowley Lake has ended for the 1990 season.

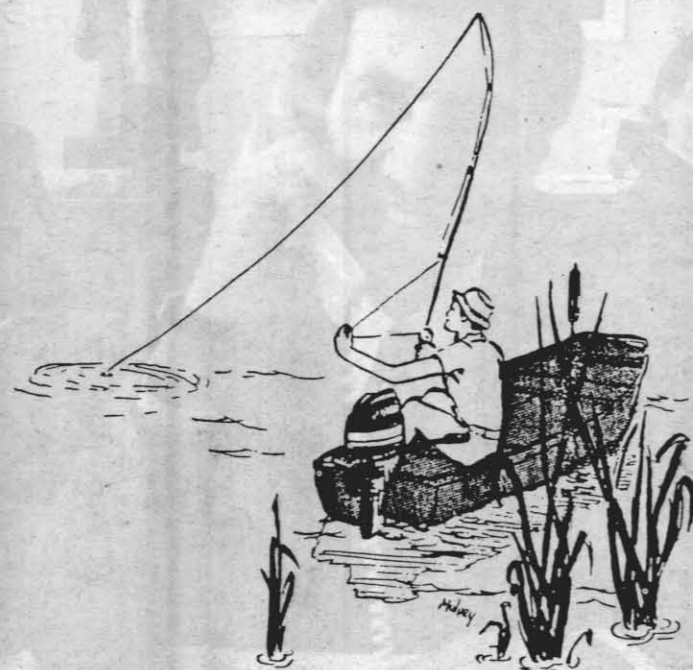
In the Mammoth Lakes area, Lake Mary, Mamie and George have been stocked with plants well worth fishing for. Try powerbait, fly and bubble early in the morning. The upper San Joaquin has been very successful for catch and release fly fishing -- use either an elk hair caddis or kings river caddis. Redtail mosquito has been real hot at the lower San Joaquin.

All reports for June Loop will be for shore fishing, as the winds are preventing any trolling. Red salmon eggs seem to be working best at June Lake. Try power nuggets or powerbait on Gull Lake. Out of all the lakes in the area, Silver Lake has been the most productive. Try baby nightcrawlers or yellow powerbait.

In the Bridgeport area, boats are doing well on the lake. Some anglers are catching limits within an hour on Lower Twin -- especially in the early morning or late evening. Private fish hatcheries are planting in Virginia Lakes, supplementing regular plants by the Department of Fish and Game.

The West Walker stream has been best for those using roostertails or small Panther Martins. Surprisingly, the East Walker River has come alive. Black leech pattern flies might bring in a rainbow in the 5 1/2 lb. range. Kermin Lake has been doing quite well, especially for those using mudler minnows.

Remember, the weather is cooling and the nights get COLD! Be sure to come prepared for the near freezing temperatures.



Celebration includes 'Mud and Surf' 10K, 5K beach runs

Camp Pendleton's 48th birthday celebration hits the sand and surf Saturday, Sept. 29, with the "Mud and Surf" 10K and 5K Beach Run.

The "Mud and Surf" 10K is a unique event that starts and ends at the beach. Each six-person team is dressed in military-style boots and utility uniforms and must negotiate several obstacles and mud pits during the course of the race. Civilians must wear long pants. High top tennis shoes or sneakers do not meet the competitive team requirement for boots.

The more conventional 5K run makes its way along the beautiful Club Del shoreline. This is one of only two beach runs in San Diego County.

The general public is allowed to participate in both events. Pre-registration is \$12 for the 5K and \$66 per team for the 10K. Day of the race registration is \$15 and \$84.

All participants will receive a t-shirt and race time information. Awards will be given to top finishers in each age group for the 5K beach run.

In the 10K run, the finish is determined by the five members of each team crossing the finish line together. Each team is, therefore, only as fast as its fifth fastest runner. Awards will be presented to the winning teams in each category wearing proper attire.

For further information, or race applications, call the Oceanside Armed Services Y.M.C.A. at 722-7671 or the Camp Pendleton Recreation Services Athletic Department at 725-6806.

Registration for youth Fall baseball underway

Registration for Fall baseball is now being held by Indian Wells Valley Youth Baseball. Children who were eight years old prior to August and older are eligible to play. Cost is \$20 per player. To register, stop by the Bronco Field at the Naval Weapons Center or call Floyd Shoaff at 375-9806.

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PW Officer:

Newcomer plans to involve people and have them take pride in work

(Continued from Page 3)

having been a Naval base XO, I will be a better Public Works officer. I now know what a base needs. Department heads often focus entirely on their own functional area, as an XO, I had to make certain everything fit together. I had to manage one piece of the pie against the others so they fit together. I hope to focus the Public Works Department so it can benefit the base as a whole."

As the new leader for the Public Works Department, Cdr. Williams plans on involving his people. "I am an individual who is committed to group achievement. By that I mean if we have a problem area, it is one for the group to resolve and not necessarily for the PW officer to order a specific action. I intend for the PW employees and I to take PW into the future and to focus on our customers and what they need; our major focus will be on quality. I feel we have the responsibility to fix things before anyone else knows they are broken and to give the customers what they need so they can focus on their job."

In addition, Cdr. Williams wants his people in the Center's Public Works Department to take pride in their work. "I believe employees need to feel they own the job... to take pride in it and want to put their name on it."

The Public Works officer requested being assigned to China Lake because "NWC has a reputation of progressive, forward thinking management and innovative ideas among the workforce. I believe in that and I want to be a part of it."

In addition, Cdr. Williams wanted to live nearer his wife's family, who live in Washington state. He is married to the former Cheryl Lynn Holcomb of East Wenatchee, Wash.

Because the most isolated place Cdr. Williams and his family have been station was at the Naval Magazine, 20-26 miles away from Honolulu, living in Ridgecrest has required some adjustments, admitted the commander.

His daughters, Deborah, 15, and Christy, 13, have had to learn to do without the bigger malls. "However," their father said, "Ridgecrest does have a lot to offer. There are a number of stores and great shopping areas. Because of Ridgecrest being a newer community, the buildings are newer and well kept. We are happy to be here."

During his Navy career, Cdr. Williams has been rewarded many times for his exemplary work. Decorations include the Meritorious Service Medal with two gold stars; Joint Service Commendation Medal; the Navy Commendation Medal with Combat "V" and gold star in lieu of second award; the Meritorious Unit Citation; the National Defense Medal; Vietnam Service Medal; the Humanitarian Service Medal; the Sea Service Deployment Ribbon; and several other service, campaign and unit awards.

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Electronic phone book comes of age on VAX

There is an electronic telephone book available to China Lakers with access to the VAX database. It's called "FINDNAME" and contains data from the personnel section of the NWC telephone book. This database is updated weekly to remain more current than the printed book can be.

Information on this utility is available through a line item of SCF News. Examples of how to

use "FINDNAME" are contained in a help screen which can be displayed with the following command:

\$FINDNAME FELP <cr>. Employees without access to "FINDNAME" can contact their systems manager for information of program accessibility.

For additional information, call the Naval Weapons Center's Telephone Services Branch at NWC ext. 3451.

CHAMPUS prepares aid for reservists' families

Middle East mobilization may bring eligibility for many

Families of reservists in the Indian Wells Valley who have been called to active duty during the current Middle East mobilization may become eligible for CHAMPUS benefits (as well as other military health care benefits) during the sponsor's active-duty service.

In order for family members to be CHAMPUS-eligible, the reservist must possess orders to serve on active duty for more than 30 consecutive days. The eligibility begins on the first day of the active-duty period covered by the orders.

As the Defense Department's Civilian Health and Medical Program of the Uniformed Services, CHAMPUS shares the cost of covered civilian health care for

the families of active-duty and retired military members.

Before using CHAMPUS, family members must be listed in the DEERS computer data files. DEERS is the Defense Enrollment Eligibility Reporting System. It contains the names of all persons eligible for military health care benefits. The names of reservists' eligible family members will be entered into the DEERS lists for CHAMPUS eligibility based on information provided by reservists to their local reserve centers and reserve units.

For more information, newly CHAMPUS-eligible family members can call the Health Benefits Advisor, Micki Edge, at NWC ext. 2911.

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Wanted: Flag football participants

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Pakulak is thermal behavior research expert

(Continued from Page 1)
The Naval Weapons Center's Advanced Cook Off Program.

"For many years we specifically worked on ways to make propellants safer in a thermal environment," said Jack. Research then turned primarily to bombs and warheads. This led into the Insensitive Munitions Advance Development (IMAD) program. The program wanted to develop explosives that were more effective, economical and safer. "In the general purpose bombs, we were asked to make the reaction time at least 5 minutes prior to explosion. The idea being that they could get rid of the bombs before they exploded," said Pakulak.

In the late 60's, working with various explosives created new problems for Jack to tackle. "Basically I was determining which ones were unsafe and which ones were very unsafe."

"It left about a 35-40 foot crater in the ground."

He relates the story to slurry explosive filled bombs, the Air Force asked to keep in storage, as a good example relevant to the work going on at that time. The bombs were determined unsafe to store. The Air Force decided to store it against warranted advice.

About three years later, the bombs in question at an army depot in northeastern California, detonated in storage. "It left about a 35-40 foot crater in the ground. No one was hurt, no one heard about it in the news. It was quietly reported. When they checked the others they were highly deteriorated just like predicted." These were the types of incidents Jack was diligently working to prevent.

The next step on "how to make it safer" was to predict a bombs' reaction during a fire. Critical analysis came with a new warhead for the Harpoon missile. Pakulak began research and testing for sympathetic detonation problem. Jack explained that Harpoon missiles are stored in different containers near other ordnance onboard ships. If one warhead accidentally explodes, then a chain reaction of sympathetic detonation could occur. "This was a serious problem in the sense that all of the stuff going to the fleet was sensitive to outside shock, or made in such a fashion that outside shock could set off

weapons on the ground."

He investigated and discovered. "We were able to modify the container and mitigating

The Navy plant that builds these Harpoon containers is modifying the plans and applying them to the Standoff Land Attack

Army, Navy, NASSA, Air Force (JANAF) publication this year, which are the simple techniques for predicting the time to cook off

ing his publications. "People want to be able to mimic... Say you have a big warhead or a big bomb. You say, I've got this little



A MAN IN HIS OWN ELEMENT--Jack Pakulak, a research chemist with Thermal and Process Evaluation Branch, feels right at home in his "Bone Yard." A collection of remnants from explosive tests Jack's performed over the past 38 years, fills the yard with research wonder.

devices, so the detonation couldn't spring past one warhead even in same container or adjacent containers." A detailed account of Jack's finding can be found in his recent February 1990 publication *Harpoon Insensitive Munitions Program-Harpoon Warhead Sympathetic Detonation Evaluation in Extruded Aluminum Shipping Containers*.

Missile containers, so it also has mitigating devices.

Jack has been asked to publish everything he has been working on for the past 38 years. The kind of tests he's conducted, and how he does his predictions. "I try to keep things very simple, I often describe my equations as out of a first chapter text book." He has published two papers in a Joint

and severity of a reaction. Jack had quite a few requests concern-

Author published articles for prediction techniques in JANAF

test and will it scale to a big test? And even if it doesn't, can I get enough information on my scale test to tell me where I may have troubles at?"

One of these papers established an outlined prediction for readers to follow when testing three different propellants. "So what I did, is say okay, here's the way you can solve each of these problems. One of them is fine, you don't have to do anything with it. Nice propellant, works out fine, equations work right. Pressure release predicts out well. The second one, if you press the ignitor on top of the motor and lift the case a little early it will burn quite nicely either in a fast or slow cook off. The third one, no matter what you do, fast or slow cook off, it's going to detonate."

The research is published so those interested can look at formatted techniques and apply whatever portion to their type of studies. "The idea is that the tests you run are the tools, not your

(Continued on Page 17)

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Navy calls selected reservists

WASHINGTON (NNS)-- For the first time since President Lyndon B. Johnson mobilized reservists during the Viet Cong Tet Offensive of 1969, the United States activated military reserve force August 22 to join in the effort to deter Iraqi aggression in the Middle East.

In an executive order issued by President Bush, Defense Secretary Dick Cheney was authorized to call members of the selected reserve to active duty status.

Of the 6,243 Naval selected reservists that will be called to active duty, about one half of

them will go to the theater of operations. First to be activated will be about 2,400 medical personnel, many of whom will be filling in at home for those who deployed to the Middle East.

Nearly 2,500 Navy doctors, nurses and corpsmen have deployed to the region, many embarking in

the hospital ships USNS Comfort and USNS Mercy.

By law the president can activate up to 200,000 reservists for 90 days.

If the need still exists, this can be extended another 90 days without a declaration of a national emergency or war.

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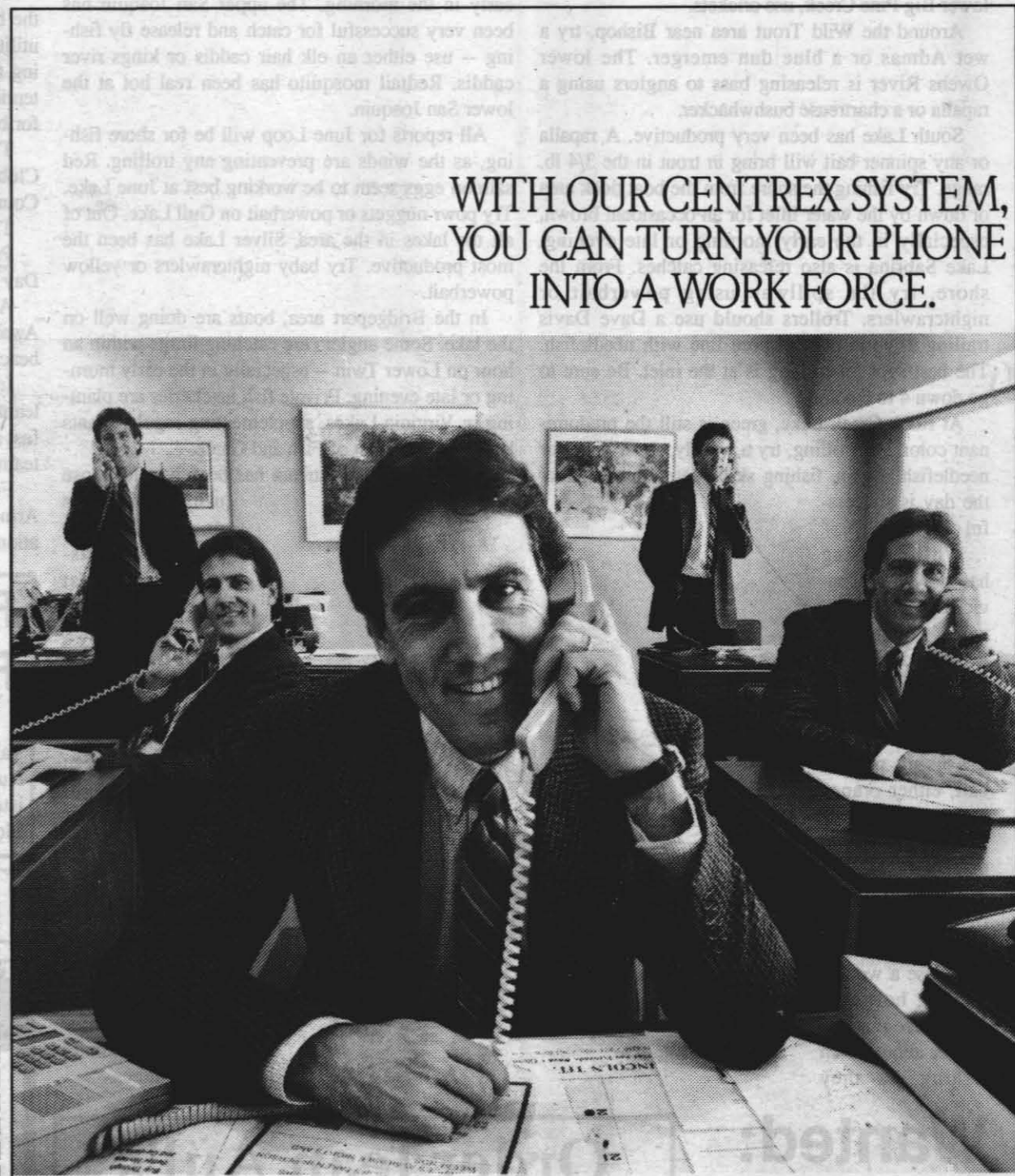
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