

Movies

FRI-SUN. JUNE 26-27
"THE GOLDEN CHILD"
 Starring Eddie Murphy and Charlotte Lewis (Comedy, rated PG-13, 94 min.)

TUESDAY JUNE 30
MATINEE "CAMEL BOY"
 (Animated, rated G, 73 min.)

WEDNESDAY JULY 1
"SOLAR BABIES"
 Starring Richard Jordan and Jami Gertz (Adventure, rated PG-13, 94 min.)

THURSDAY JULY 2
MATINEE "LADY & THE TRAMP"
 (Animated, rated G, 76 min.)

FRIDAY JULY 3
"OUTRAGEOUS FORTUNE"
 Starring Beth Midler and Shelley Long (Comedy, rated R, 100 min.)

Starting Times: Matinee / 2 pm Evening / 7 pm

IOI ALL AGES ADMITTED General Audiences
 IPI ALL AGES ADMITTED Parental Guidance Suggested
 IRI RESTRICTED Under 17 Requires Accompanying Parent or Adult Guardian

Weather Report

	Max.	Min.	Peak Gusts
Thurs.	100	58	21 knots
Fri.	101	56	21 knots
Sat.	101	61	21 knots
Sun.	99	59	24 knots
Mon.	100	59	14 knots
Tues.	104	61	19 knots
Wed.	106	63	18 knots

All measurements are made at Armitage Airfield.

Community Events

Tonight the Silver Jubilee Mining Company will have its debut at a creative auction staged for the benefit of the Maturango Museum. The auction will be held at the Carriage Inn in Ridgecrest. Fun begins with a gourmet hors d'oeuvre buffet at 6:30 p.m.; the auction begins at 7:30. Cost of admission, which includes the buffet is \$7.95 per person.

Canada's 120th birthday will be celebrated locally by the Canadian Detachment on Wednesday at the back patio of the Commissioned Officer's Mess.

To toast Canada Day, there'll be beer, wine and soft drinks, with a cake-cutting ceremony at 7:30 p.m. and dancing to the music provided by a disc jockey.

A barbecue steak dinner will also be available for \$7.95 between 6 and 7:30 p.m. Those who wish to take advantage of the steak dinner are asked to make reservations for the dinner portion only by telephoning NWC ext. 5259. Otherwise, no reservations are required to attend.

Thespians and would-be thespians are invited to try out for roles in the British comedy "Forty Carats" that will be presented by the Community Light Opera and Theatre Association in August. Tryouts will be Monday and Tuesday at 7 p.m. in the CLOTA building, 1425 N. Inyo in Ridgecrest.

Scripts for the production to be directed by Kathy Huey can be found at the Kern County Library in Ridgecrest and at the Center library.

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Engineering Department personnel and their families will have a picnic tomorrow from 4 to 10 p.m. at the Chief Petty Officers' Mess lawn. The pool will be open from 4 to 7, and food service is expected at about 5:30 p.m. There'll be the usual round of picnic activities and prizes will be awarded to winners of the various games. Those planning to attend should bring food to share--last names beginning with A through O are asked to bring a salad and the others a dessert. Everyone should bring meat to grill.

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F/A-18C completes milestone flight-- **P-3**

Barton twins double the fun again-- **P-7**

NWC Rocketeer

Naval Weapons Center, China Lake, California 93555-6001

Vol. LXII, No. 25/June 26, 1987

NWC scientists launch superconductor research

Newspaper reports of physicists fighting to get into a meeting of the American Physical Society in mid-March dealing with superconductivity left non-scientists wondering what the fuss was all about.

After all, such a fuss had not been generated with initial reports of the transistor and the laser, although these had transformed society into a world of computers, bloodless surgery, and a multitude of other capabilities now taken for granted.

What is causing this excitement, however, is that a while new class of compounds has been found that become superconductors at temperatures readily achievable outside a laboratory--and such superconductors could have more of an effect on day-to-day life than the atomic bomb.

Both NWC and the Navy were fortunate that Dr. Terrell Hewston, a chemist in the Optical and Electronic Materials Branch of the Research Department, attended another meeting taking place simultaneously (that of the American Crystallographic Association) at which the breakthrough in superconductivity was a topic of lively discussion as well as at specially convened sessions. Because of what she learned at that meeting, she and Dr. Dan Harris, also in Code 3854 (as well as Dr. Marian Hills and others in that branch) have already been able to make a contribution in the area of superconductivity, and the Center's engineers will be able to work at the edge of new technology being developed.

Superconductivity is an area of physics that began in 1911 when Dutch physicist Heike Kamerlingh-Onnes first discovered the phenomenon (a discovery winning him the Nobel Prize in 1912).

He found that when certain materials were lowered in temperature to approximately 4 degrees Kelvin

(a temperature near absolute zero), they lost all resistance to electricity.

Ordinarily, when electricity flows through a material such as copper wire, the resistance to this electrical flow creates heat and results in considerable efficiency losses. A superconductor allows such electrical flow without creat-

ing heat and loss of energy.

The superconducting materials discovered by Onnes, however, could only be cooled to their effective temperatures by use of liquid helium. Liquid helium is an expensive and inefficient coolant, which has limited practical applications of superconductivity.

During the more than 75 years since, those studying superconducting materials edged transition temperatures up to 23 degrees Kelvin. Then, in 1986, Karl Alex Muller of the IBM Research Laboratory, followed by S. Tanaka of the University of Tokyo and Paul Chu of the University of Houston, reported superconductors at 40 to 50 degrees Kelvin.

By February 1987, research on similar materials led to the discovery of compounds that become superconductors near 100 degrees Kelvin. These exciting new compounds are composed of barium, copper, oxygen and a rare earth element. (Rare earth is a misnomer; most of these are common, relatively inexpensive, and easy to handle in laboratory and industrial applications.)

These new compounds brought the temperature at which superconductivity occurs into the realm where liquid nitrogen could be used as a coolant. Liquid nitrogen costs roughly 22 cents a gallon (cheaper than beer) and is in common use.

Dr. Hewston was especially interested in hearing about this because her own background is in synthetic solid state chemistry, and her dissertation, written about two years ago before she came to work at the Center, dealt with related materials.

When she returned to NWC from the meeting she attended, she and her colleague, Dr. Harris, were chatting about the mysterious new superconductor. Mysterious it was, Continued on Page 3



SUPERCONDUCTOR--Dr. Dan Harris watches as Dr. Terrell Hewston enters for a new superconductor. NWC was one of the first laboratories in the world to make this substance.

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'Zero Downtime Program' sought by Code 38908

Since the likelihood of a major earthquake occurring in the local area falls into the "when," not "if," category, the Office of Applied Geoscience (Code 38908) in the Research Department has instituted a Zero Downtime Program.

Aim of the Zero Downtime Program is to ensure that in case of a

disaster the impact on the Center and its mission will be minimized. As the flood of 1984 indicated, a disaster can be extremely costly in both the facilities damaged or lost and in the time and effort lost on mission-related activities.

The Zero Downtime Program emphasizes prevention, prediction and

preparation for major geologic events.

While an earthquake is beyond the power of any human to prevent, damage from such a quake can be lessened by, for example, not locating buildings and facilities atop earthquake faults. The geologists in Code 38908 map fault zones; they

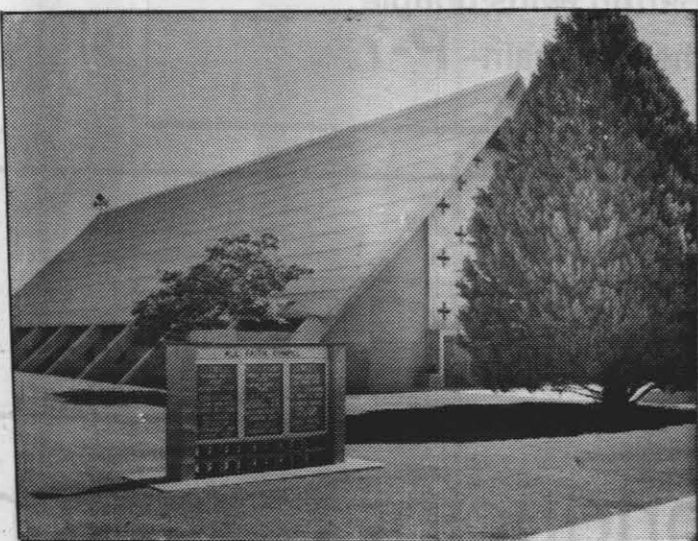
are consulted by engineers from the Public Works Department and other departments to ensure that new facilities will not be built on known faults.

Fault maps drawn as a result of their investigations are made available not just to NWC personnel but also to the United States Geological

Survey, the California Division of Mines and Geology, or others who might need such information.

In addition, the Applied Geoscience Research Office assisted the Naval Civil Engineering Laboratory in the installation of strong motion

Continued on Page 8



Divine Services

Protestant	
Sunday Worship Service	10:30 a.m.
Sunday School (September thru June)	9:00 a.m.
Bible Study (East Wing)	
Wednesday 11:30 a.m. (September thru June)	
Thursday 6:15 a.m. Men's Prayer Breakfast	
7:00 p.m. Officer's Christian Fellowship	
Christian Military Fellowship	
Islamic	
Jumaa Prayer (Friday in Annex 4)	1:00 p.m.
Roman Catholic	
Sunday Mass	9:00 a.m.
Communion Service (Monday)	11:35 a.m.
Daily Mass (Tuesday thru Friday)	11:35 a.m.
Confession (Friday)	4:30-5:00 p.m.
Religious Education Classes (Sunday)	10:30 a.m.
(September thru May)	
Jewish	
Weekly Services (Friday-East Wing)	7:30 p.m.
New classes will begin in September	
Chaplain J. Milton Collins, CAPT, CHC, USN Chaplain A. J. Smith, CDR, CHC, USN Chaplain Claude R. Besse, LT, CHC, USNR Hearing Impaired Equipment, Nursery Available Phone NWC ext. 3506, 2773	

Care prevents boating accidents

Ah, sun, sea and suds -- heaven! Unfortunately, if the one enjoying the suds is also piloting the boat, that statement could be literally true. Last year, 1,116 people died in boating accidents. And more than half of these deaths, according to the U.S. Coast Guard, involved alcohol. In addition to the lives lost, the Coast Guard said the accidents resulted in 25,000 injuries, and \$420 million in property was lost or damaged. Researchers have found that even sober boaters are subjected to "stressors" -- noise, vibration, sun, glare and motion that can produce "boater's hypnosis." Boater's hypnosis can slow reaction time almost as much as if you were legally drunk. Adding alcohol to these factors only intensifies the effect. Alcohol also intensifies the effect of caloric labyrinthitis, a fancy term for the disorientation caused by water entering the ear. A drunk person whose head is immersed can become confused and swim down to death instead of up to safety. This explains why some good swimmers who have been drinking drown for no apparent reason. Those are all good reasons for not drinking and driving a boat. And here's one more -- you risk a fine of up to \$1,000, a criminal penalty of up to \$5,000 and a year in prison. Coast Guard statistics show that drowning accounts for 85 percent of boating fatalities. Most of those who drowned were not wearing life jackets or personal flotation devices. According to the Coast Guard, most boating accidents and fatalities are preventable. Get the training you need to pilot your craft safely.

Early deadline for Rocketeer

Deadline for next week's Rocketeer will be Monday at 4:30 p.m. rather than the normal Tuesday deadline. Next week's paper will be published on Thursday, July 2; Friday is a holiday to celebrate July 4.

Student employee builds Tesla coil

Celeste Beres, who has been enrolled in the Center's Technical Mentor Program for the past two years, demonstrated a Tesla coil to her co-workers in the Radar Technology Branch of the Fuze and Sensors Department recently. This was an upgrade of the Tesla coil she made for the Burroughs High School science fair that drew considerable attention. She did the research on how to build such a coil, then fabricated the coil itself. A Tesla coil, named after Nikola Tesla, one of the most underrated inventors of modern times, is an air-core resonant transformer driven by impulse from a sparkgap. The 10,000 volt input to this device she built should produce about a half million volts when it is in its "final tune" condition; currently it makes about 200,000 volts. The coil generates a radio signal at its resonant frequency, which is about 300KHz. The young student plans to replace the current crude spark gap with a solid state driver. She was guided in her work by her mentor, Dr. Dave Schriener of Code 3312, who became interested in Tesla when he was in high school in Pennsylvania. Dr. Schriener had Ms. Beres consult with others in non-busy times and perform the research and measurements to enable her to build the coil herself rather than to copy an

existing coil. In this way, he believed, she would better understand how engineering progresses from an idea to an end result. Tesla, Dr. Schriener notes, was a contemporary of Edison and Westinghouse. He became interested in the use of alternating rather than the direct current favored by Edison. Even today's power is provided mainly by Tesla's AC and his polyphase AC motors. Ms. Beres graduated from Burroughs High School this year and plans to attend college to earn a degree in electronics engineering. She will continue to work at NWC through a co-op program. Her parents, Al and Dinah Beres, are both Center employees.



DEMONSTRATION--Although it looks like a giant birdcage, the Tesla coil Celeste Beres describes can generate 200,000 volts.

cess is highly desirable. Position is non-supervisory. To apply, submit SF-171 to Pat Yates, Code 33505, NWC ext. 7408.

Secretarial opportunities

This column is used to announce secretarial 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 secretarial duties are implied by the job relevant criteria indicated below. Applicants will be rated against four or more of the following job relevant criteria: (1) ability to perform receptionist and telephone duties; (2) ability to review, track, screen and distribute incoming mail; (3) ability to review outgoing correspondence; (4) ability to compose correspondence and/or prepare non-technical reports; (5) knowledge of filing systems and files management; (6) ability to meet the administrative needs of the office; (7) ability to train clerical personnel and organize workload of clerical staff processes; (8) ability to plan and coordinate travel arrangements; (9) ability to maintain and coordinate supervisor's calendar and to arrange conferences. Unless otherwise indicated, applicants for Branch Secretary will be rated on elements 1/2/3/5/8; Division Secretary applicants will be rated on elements 1/2/3/4/7/8/9; Program Office Secretary applicants will be rated on elements 1/2/3/4/5/8/9; and Department Secretary applicants will be rated on elements 4/7/8/9. A SUPPLEMENTAL FORM IS REQUIRED AND MAY BE OBTAINED IN ROOM 100 OF THE PERSONNEL BUILDING.

No. 12-006, Secretary (Typing) GS-318-5/6, Code 12 - Position provides secretarial support to the Warfare Coordination Group and Department Office. Principle backup to department secretary. Knowledge and working skill on CPT Phoenix word processor desirable. Promotion potential to GS-6.

No. 24-023, Secretary (Typing), GS-318-5/6, Code 241 - This position is the secretary to the Chief of Police. This position provides secretarial and administrative support to the Police Division. Promotion potential to the GS-6 level.

No. 39-029, Secretary (Typing), GS-318-5, Code 3945 - This is a part time position which is that of a secretary to the head of the Signature Measurements and Evaluation Branch. The incumbent provides clerical and administrative support to the branch.

No. 36-052, Secretary (Typing) GS-318-4/5, Code 3665 - The incumbent provides secretarial support to the Environmental Engineering Branch. Knowledge and working skill on the Swintec Electronic Typewriter is desirable. Promotion potential GS-5.

No. 61-009, Secretary (Typing), GS-318-4/5, Code 611 - This position provides secretarial support to the Airfield Operations Office with the added duty of providing back-up support to the division's five branches. Knowledge of airfield operations procedures and IBM Displaywriter system is desirable. Promotion potential to GS-6.

No. 64-181, Secretary (Typing), GS-318-5/6, Code 644 - Provides secretarial and administrative support to the head of the EWTES Division and Code 644 staff. Knowledge of Xerox Star desirable. First-forty work schedule (0630-1630). Promotion potential to GS-6. Previous applicants need not reapply.

No. 64-186, Secretary (Typing), GS-318-4/5, Code 6446 - Provides secretarial and administrative support to the Range Services Branch. Knowledge of Xerox Star and Macintosh Plus desirable. First-forty work schedule (0630-1630). Promotional potential to GS-5.

No. 060-L-87, Secretary (Typing), GS-318-5, VX-5 - This position is advertised for NAS, Lemoore, CA. The duty station is VX-5, China Lake, CA. Serves as the secretary to the Commanding Officer and Executive Officer. Provides administrative and clerical support. Receives calls, greets visitors and

refers inquiries. Maintains Commanding Officer's and Executive Officer's calendar. Schedules conferences and meetings. Arranges accommodations and transportation. Receives, reviews and routes mail. Types correspondence, memos, forms and reports. Assists in the preparation of fitness reports. **Job Relevant Criteria:** Knowledge of clerical and administrative functions; knowledge of correspondence procedures; ability to meet and deal effectively with others; ability to interpret and apply written material. Status eligibles may apply. To apply, submit a SF-171, Background Survey Questionnaire, and a copy of the most recent performance rating to: Civilian Personnel Department, Training Bldg. A (North Entrance), Rm. 113, Naval Air Station, Lemoore, CA 93246-5001. This ad closes 6 July, 1987.

No. 00-007, Secretary (Typing), GS-318-4/5, Code 01 - Provides secretarial support to the office of the Technical Director and staff, and the 01T Technical Base Director. Ability to operate the Xerox STAR computer is desirable. Promotion potential to GS-5.

No. 00-008, Secretary (Typing), GS-318-4/5, Code 055 - This position provides secretarial, typing, clerical and other administrative support to the Small Business Program Office. Promotion potential to GS-5.

Clerk typist needed . . .

No. E87-37 (PFP), Clerk Typist, GS-322-4 - This position is advertised for the Navy Publications and Printing Service Detachment Branch Office at China Lake. Duties: Types a variety of correspondence including memoranda, reports, letters, etc. Reviews for clarity of expressions, conformity with prescribed format, grammar, spelling, punctuation, etc. Plans, organizes and coordinates work load. Researches files for background information. **Qualification requirements:** Must possess typing proficiency of 40 words per minute and have had one and one half years of clerical experience. **Submit SF-171 to:** Director, Navy Publications and Printing Service; Detachment Branch Office; Bldg. 1041, Naval Weapons Center, CODE 8306, China Lake, CA 93555-6001. This ad closes July 10, 1987.

Personnel Development Opportunities

COUNSELING TECHNIQUES FOR SUPERVISORS AND MANAGERS
July 15 and 16; Wednesday and Thursday; 0800-1600; Training Center. By S. Levy.
 Intended Audience: Employees who have responsibility for counseling employees, including managers, supervisors, employee relations specialists, and employee assistance counselors.
 Scope: This class will provide you with skill in conducting counseling sessions with employees who have performance, behavior, personal, or other problems. The information is useful for performance appraisal sessions. Upon completion of this class you should be able to analyze the problem; apply techniques of active listening and understanding to obtain information about others' perspectives; use directive communication skills to provide feedback and engage in a process of goal setting; and identify appropriate resources or recourses for cases in which supervisory counseling is inadequate. Topics include principles of effective counseling, defining employee counseling, effective expression, follow up and feedback, constructive discipline, analyzing performance problems, and systematic counseling approach.

TECHNIQUES OF MEMORY IMPROVEMENT

July 28; Tuesday; 0800-1600; Training Center. By B. Barer.

Scope: If you can't remember, you're not alone! This is the general skills class most requested by NWC personnel. The purpose of this training is to provide all personnel with the skills and principles of memory improvement. The workshop shows how we retain and understand information by our ability to listen actively. Emphasis is placed on how effective memory techniques influence the job productivity of administrative and technical personnel. You will be made aware not only of memory techniques but how to use them. You will learn about the major factors affecting information retention: perception, attention, comprehension, emotional barriers, listening environment, visual and nonverbal elements of communication, and organization of information. Audiovisuals will be used as instructional tools.
 Deadline: July 14.

To enroll in these classes submit Training Request & Authorization Form (NAVWPNCEN 12410/73) via department channels to Code 094.

PERFORMANCE ASSESSMENT QUESTION AND ANSWER SESSION

July 30; Thursday; 0900-1000, Training Center. By Barbara Fedoriga.

Scope: Do you completely understand the Demo performance assessment process? Barbara Fedoriga, Labor Relations Specialist, will conduct a question and answer session to resolve your demo questions. Please be sure to see the video "Performance Planning and Assessment" (see ad below). No training request is required as this class will be conducted on a walk-in basis.

PERFORMANCE PLANNING AND ASSESSMENT FOR DEMO PERSONNEL -- VIDEO (1 1/4 hours)

Learning Center/Training Center

Scope: Covers the demonstration project performance planning, monitoring, and assessment process. Upon completion, viewers will be able to identify critical job elements and use position descriptions to write and review good performance plans. Also, a brief overview of the demonstration project at NWC and how it differs from the traditional Civil Service System will be presented. Step increments (i's) and bonus points will be explained. If you still have questions about the demonstration project after viewing this video, fill out the comment sheet (issued with each video) and a subject-matter expert will answer your questions directly. This video can be reserved by calling NWC ext. 2451.

Two classes cancelled

Two classes previously scheduled, nor will XEROX 860 BASIC (UPDATE), scheduled for Aug. 18-20. The next XEROX 860 BASIC class will be held July 21-23.

NWC Rocketeer

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tained. \$1300 or best.
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lockouts, great shape. \$2500.
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TRUCK - Red, 4 wheel drive,
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1750 or best.
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mi. 1 owner. \$11,000.
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fore noon and after 4pm.
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rally wheels. \$4000.
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reo cassette, excellent condition.
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air, AM-FM stereo, III, III,
cruise, detogger, clean. \$4300
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mileage, excellent condition.
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CHEVETTE, 1980 - 4 door,
automatic, air, AM-FM stereo,
tires, 41,000 miles. Good condi-
tion. \$1300.
CHEVETTE '84
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rack, tilt, cruise,
AM/FM stereo.
CHEVROLET 1985 S10 -
Long box pickup V8 standard
transmission, power steering,
carpenter's tool box with ton-
neau cover. 1 owner. Extra
sharp.
1984 J2000 - 4 door, air, auto
matic, air, cloth stereo, tilt,
41,000 local 1 owner miles. A
beauty. \$4995 or \$127 mo.
CHEVY Malibu '81 - 4 door,
automatic, power steering &
brakes. Clean. \$1750
CHEVY MALIBU WAGON '79
- V6, air, no rust, well main-
tained. \$1500 or best.
CHRYSLER LE BARON GTS
1986 - Premium turbo, 4 door,
full power, AM-FM stereo
with cassette, 17,000 miles, 4
year service contract \$13,500.
CHRYSLER LE BARON '78 -
33,000 miles, new exhaust
1995.
CITATION 1981 - 4 door, 4
cylinder, 4 door, no rust, 30,000
miles on factory rebuilt en-
gine. Many extras. \$1895.
COUGAR '84 - Excellent con-
dition. Power windows and
brakes. Cruise. \$4200
COUGAR '84 - 24,000 miles,
lots of equipment, like new!
On sale at

CHEVY '72 - 10 ton, 4 door
Colorado, 70,000 original
miles, no rust, new radiators,
AM-FM cassette. \$2000 or best
offer.
CHEVY C10, '81 - 10 ton, 3x3,
4 cylinder, automatic, cruise,
\$1750
CHEVY PICKUP, 1973 - 3/4
ton, automatic, 34,000 miles,
\$1500 or best offer.
CHEVY PICKUP '74 - Some
rust, runs good, good for haul-
ing. \$450 best offer.
CHEVY '81 - pickup, '82 best
cab, silver, cloth buckets,
sport model, cruise, tilt, ste-
reo, air, automatic, V8, run-
ning boards, deluxe cab, clean
and sharp.
CHEVY Silverado '85
Pickup, automatic, loaded
brakes, clean. \$1750
CHEVY Malibu '81 - 4 door,
automatic, power steering &
brakes. Clean. \$1750
DATSUN 4x4 PICKUP '81 -
Longbed, air, camper, 37,000
mi. Many extras. Must!
\$4400/best offer 7pm.
DATSUN PICKUP - '82, King
Cab, long box, only 48,000
miles.
DODGE '78 HALF-TON
PICKUP - \$500 or best offer.
evenings.
DODGE CLUB CAB
4 wheel drive, runs great.
\$1200
DODGE PICKUP D-50 '81 -
With cap, 11500 or best offer.
Call
FLAT BED TRAILER - Steel
bed, tandem axle.
after 4pm.
FORD 1979 SUPER CAB -
V8, automatic. Excellent con-
dition. \$2300
Small 8 cyl
power steer-
conditioning
owner, family
Reduced for
Dodge
Ford '84
F-150 Pickup
Automatic, power steering &
brakes. Low mileage. \$6250.
LINCOLN/MERCURY
DODGE DIPLOMAT '80 -
Air, automatic, 46,000 mi., Mi-
chelles Very nice. \$2495. Call
DODGE LANCER ES, 1983 -
Turbo, loaded automatic,
\$50, 4300 mi. Mini Stored win-
ter. \$6300.
Ford '85
F-150 Pickup
Just like new \$6895
LINCOLN/MERCURY
Dodge
Ford '85
F-150 Pickup
Just like new \$6895
LINCOLN/MERCURY
Dark Green, heavy turbo
engine, loaded. \$5,000 miles,
1 year warranty.
'86 Century Limited
4 door, Dark Blue, Blue cloth,
power seat/windows/locks,
cruise, AM/FM stereo,
2 year warranty.
'82 Regal Limited
2 door, automatic, power
steering/brakes, air, and
more. \$5,000 miles,
2 year warranty.

BUICK, 1982 SKYHAWK Cut
nom. Power steering & brakes,
AM-FM stereo. 4 speed. 74,000
mi. \$2150
BUICK CENTURY '83
Power locks, air, sharp
\$4784
PONTIAC
BUICK CENTURY T-TYPE
1985 - Leather interior, 28,000
miles.
BUICK CENTURY T-Type '83
- Fully loaded, air, cruise
steering & brakes, rustproofed,
14000
BUICK LESABRE 1977 -
3 door, runs real well
11000
BUICK PARK AVENUE '84
- Loaded. \$4500
CADILLAC FLEETWOOD,
1984 - Loaded, sunroof, Buick
Royal front end, chrome sun
visor, anti theft system. 30,900
actual miles. \$12,000.
'84 CADILLAC
SEDAN DEVILLE
4 door, full size luxury
riding car, affordable price.
VOLVO '76
Extra sharp!
Call for details
CADILLAC Sedan Deville '81
\$12,000
FORD RANGER '83
Long bed, sliding rear win-
dow, AM-FM cassette, Black
Great shape, low mileage
Asking \$2100.
FORD RANGER '84
Pickup, Dark Blue metallic
Great value. \$4777
COUGAR '78 - Air, very
clean. \$800
GMC '81 - 10 ton, 6 cylinder
speed manual -
cap \$2200

BUICK RIVIERA, 1981 - Ex-
cellent condition. Loaded. vi-
nyl top, diesel. \$3700.
BUICK SKYHAWK '84 -
Power steering & brakes, air,
23,000 mi. \$2900
BUICK SKYLARK, 1978
\$1400
BUICK SKYLARK '83 - 4
door, air, automatic, good con-
dition. \$2500
CADILLAC Sedan Deville '81
\$12,000
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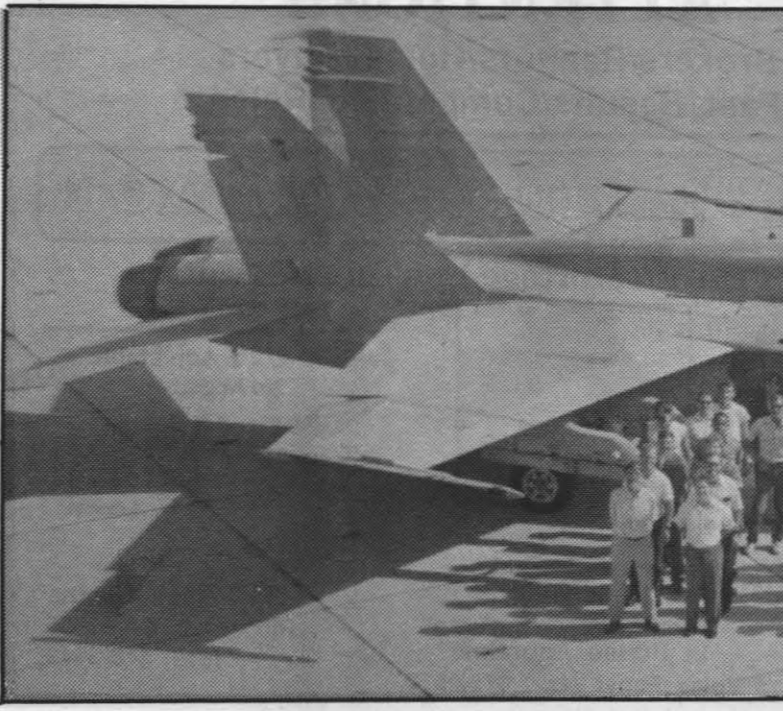
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GMC '81 - 10 ton, 6 cylinder
speed manual -
cap \$2200



The Skipper Sez...

QUESTION
A year or so ago in the Skipper Sez column there was a large article relating to the use of private vehicles while on travel. The gist of the article was "to save money, the use of POV while on travel is no longer allowed for short trips as the cost of a rental car is less than paying mileage and parking while on travel." I have just returned from a trip back east. PSD arranged for me to use a National rental car to drive to Ontario. The rate that PSD arranged was \$34 per day PLUS 20 cents per mile, PLUS the cost of gasoline. The total cost to take that car was \$67.53. The return trip was arranged the same way except, for some reason, the cost of the car was only \$33 per day, that car cost \$65.93. The total cost for me to take a rental car to Ontario and back was \$133.46.
If I had been allowed to take my own car the government would have paid me 22.5 cents per mile (\$65.70) plus parking of \$20 for a total of \$85.70, which would have saved the government \$47.76. The cost savings is significant and should be looked into. There is another aspect of the use of POV that has not been addressed that I know of, that is safety. The rental car was very different from my car, as is usually the case. In my own vehicle I know what to expect in all situations. If ever I would have to take evasive action, I would prefer to do it in a car whose responses were second nature to me. That even comes down to little things like tuning the radio, or adjusting the mirrors, but could be as bad as having to release the seat belt in an emergency.
I believe that the policy of requiring the use of rental cars versus POV should be reevaluated since rental cars now seem to cost a great deal of money in relation to POVs. Another possible solution would be to look into the type of contract that was negotiated with the local rental car companies.
ANSWER
The JFTR allows travel by privately owned conveyances (POV), but does not permit the order writing authority to require it. That is, you cannot be required to use your own car, even if it might be cheaper to the government. If the traveler is willing to use POV, the order writing authority should consider cost trade offs between use of rental cars and POV. Rental car cost estimates can be obtained from PSD.
Personnel are encouraged to use the most cost effective method of travel to conserve travel dollars.

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



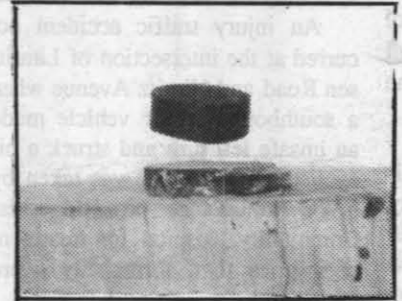
100 MISSIONS—LCDr. Doug Henry sits in the cockpit of NWC's F/A-18C production verification aircraft after flying this aircraft's 100th mission since rolling off the McDonnell Douglas Aircraft production line. Ninety-four of those missions were flown at NWC in support of independent verification and validation

Superconductivity work . . .

(Continued from Page 1)
in part because its exact chemical composition was not yet worked out.

Out of their conversation came the conviction that they could help determine the exact amount of oxygen it contained—the unknown portion of the chemical composition. They immediately set to work.
Dr. Hewston was able to prepare the new compound in pure form. "It's relatively easy," she notes, "in that I got some clues from friends at the meeting. You combine yttrium oxide, cupric oxide, and barium carbonate, grind and heat these appropriately, and these three solids react to form another crystalline solid, yttrium barium copper oxide, the new superconductor."

Since she was able to work out how to make it in less than two weeks, they believe that less than a dozen laboratories in the world had succeeded in making the compound in pure form by that time.
Dr. Harris and Dr. Hewston then determined the exact oxygen content through careful laboratory work; they described their work in a scientific paper completed April 21, a mere three weeks after they began their work.
The paper was sent by Federal Express to the "Journal of Solid State Chemistry," and just five days later, the editor of that journal called to say that it had been accepted for publication and would be published promptly. Ordinarily, getting a paper accepted by a scientific journal takes months, if not a year.
Dr. Harris also wrote another paper on their work for the "Journal of Chemical Education," which was



LEVITATION—A magnet is suspended in midair over a chip of a superconductor that has been chilled with liquid nitrogen.

also promptly submitted for publication.
Dr. Hewston presented the results of their work at the 89th meeting of the American Ceramic Society on April 29. Additional reports on their work have been sent to Washington, with a proposal for funding for further exploration of superconductivity.

Potential applications of superconductivity at NWC are mind-boggling.

Materials that are superconductors at temperatures accessible with liquid nitrogen coolant can enhance operations of everything from IMPATT diodes to antennas.
All aspects of Center products using electricity or magnetism represent potential application areas.
Work has already begun to study applications of superconductivity. Henry Blazek of the Engineering Department is now trying to grow films of the new compound that could have semiconductor-related and other uses. Dr. Robert Dinger of the Research Department is working on antenna applications,

and Dr. Vic Rehn, also of the Research Department, is determining other uses of superconductivity in the Center's mission and objectives.

Both Dr. Hewston (now Dr. Vanderah following her marriage to another Center scientist, Dr. David Vanderah on June 25) and Dr. Harris join the excitement shown by other physicists and chemists over the breakthroughs in superconductivity.
"Although we don't have nearly the quantity of researchers working in this field that can be found in some industrial or university laboratories," she says, "we've got enough people here that do quality work so that we can be competitive. Furthermore, what we do could have a direct benefit to the Navy and the fleet."

All Centerites are reminded by the NWC Fire Division that the use or ignition of fireworks is prohibited on all parts of the Center's lands.

Fireworks include blank cartridges, toy cannons, firecrackers, torpedoes, skyrockets and Roman candles or similar items capable of producing a visual or audible effect by combustion or detonation.
This prohibition does not include toy pistols and similar devices that use a paper cap, saluting cannons or blank cartridges used by the military. Hand-held sparklers are permitted under adult supervision.

Every year fireworks are directly responsible for millions of dollars in property losses and, more importantly, hundreds of injuries and deaths.

Dr. Austin to talk to FMA

Guest speaker for the July meeting of the Federal Managers' Association will be Dr. Carl Austin, who will talk about "Military-Civilian Management Interfaces in the Development of the Coso Geothermal Resource."
The open meeting will be held in the Flight Deck room of the Enlisted Mess at 11:30 a.m. on Tuesday, July 7. All members and prospective members are especially invited to attend. Advance reservations are not necessary.

NWC HOTLINE
Integrity, efficiency program
Call: NWC ext. 3636 (24 hrs.)
or call the Inspector General at:
(800)522-3451 (toll free)
288-6743 (Autovon)
(202)433-6743 (commercial)

GUARANTEED RESULTS WANT AD RULES

1. Restricted to private parties only.
2. All "For Sale" items accepted (EXCEPT ANIMALS AND REAL ESTATE)
3. Maximum of three items per ad, any one item sold per ad from any source constitutes a successful ad.
4. All items in ad must be priced. Ad must contain phone number.
5. "GR" ads will be placed for 4 consecutive insertion appearing in the Rocketeer.
6. "GR" ads must be paid for within two days after placing the ad or it will be billed as a regular classified ad with no rerun privileges.
7. If your item sells before the 4th run, you may cancel it.
8. No copy changes.
9. If you don't sell the item within 5 days after the 4th insertion, we will rerun your ad FREE for the same number of insertions as your original order.



Small 8 cyl power steering conditioning owner, family Reduced for

USED CARS
1984 Caprice, 4 door classic loaded
1982 Monte Carlo, 19,000 miles, sharp!
1983 Cavalier, 4 door, automatic
1982 Pontiac Trans Am
1991 AMC Eagle SX4, 4x4, 28,000 miles
1983 Pontiac 2000, 2 door, auto matic, sunroof
1984 Celebrity Wagon, V-4, air, auto matic, stereo, power steering (brakes & more. \$3299 or \$41 mo.
1982 DODGE D-150 - Auto matic, stereo, power steering (brakes & more. \$3299 or \$41 mo.
1984 F-150 - Power steering/brakes, 3 speed overdrive, 44,000 miles. \$4995 or \$127 mo.
1984 F-150 XLT - Automatic air, tilt, cruise, cassette, 331 mi. 5 year, 30,000 miles. \$14,900

1984 Caprice, 4 door classic loaded
1982 Monte Carlo, 19,000 miles, sharp!
1983 Cavalier, 4 door, automatic
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1984 F-150 XLT - Automatic air, tilt, cruise, cassette, 331 mi. 5 year, 30,000 miles. \$14,900



China Lake Police Reports

The principal of Pierce School told China Lake police that a vandal had printed names of people on the main building of the school.

+++
A person in a government vehicle parked at the California City parachute drop zone while sand bags were being dropped reported that one of these was deflected by wind and struck the vehicle.

+++
An individual living on Sykes Circle reported seeing three juveniles removing a sheet of plywood from the Stater Brothers construction site and throwing it over the fence. Police retrieved the plywood to hold until it could be returned.

+++
Police took a battery report from a woman living on Nimitz Avenue who reported that her husband allegedly grabbed her by the arm, yelled at her, threw her to the ground and got hold of her vehicle.

+++
When police made a stop for a brake light being out, they found that the driver was unlicensed. The driver was cited and released.

+++
A bike was reported stolen from a residence on Intrepid Road.

An injury traffic accident occurred at the intersection of Lauritsen Road and Nimitz Avenue when a southbound motor vehicle made an unsafe left turn and struck a bicyclist. The bicyclist was taken by NWC ambulance to Ridgecrest Community Hospital for treatment of injuries that, fortunately, were minor.

+++
Police officers went with the Fire Division to Thompson Laboratory in response to a call about a man down. They discovered that the man had tripped over a box in the middle of the floor while he was carrying a missile into the building. He was taken to Ridgecrest Community Hospital by NWC ambulance.

+++
Unknown persons used rocks to break three windows at Richmond School.

+++
Officers patrolling the Site B Capehart housing found a suspect lying in the grass. They contacted the suspect, discovered that he was under the influence of alcohol, arrested him for being drunk in public before taking him to the police station and holding him to sober up.

Police were called when an unattended briefcase was found in the cafeteria of Michelson Laboratory. They were able to open the case and found that it contained papers, not a bomb. An attempt is being made to locate the owner of the briefcase.

+++
A barring letter was issued by China Lake police to a former military subject barring him from re-entering NWC property.

+++
A grand theft report was filed when it was found that a rental company had removed some of their property that still had government-owned equipment inside.

+++
A vehicle exiting the Enlisted Mess parking lot on Blandy Avenue struck another vehicle, causing minor damage to both.

+++
Unknown persons used a sharp instrument to puncture a victim's tire twice.

+++
Someone attempted to remove the carburetor from a vehicle parked at the Lemon Lot.

+++
A resident of a house on Bogue Circle told police someone had written obscenities on the wall of the residence with paint.

+++
An individual brought a contractor's pass to police that had

been found on Highway 178. The pass was forwarded to the pass desk.

+++
A burglary report was taken in the Site B Capeharts that a bike had been stolen from a closed garage. Police found a suspect riding the bike and arrested the suspect.

+++
An individual stopped at the main gate was found to be an unlicensed driver and in possession of an altered driver's license.

+++
An individual stopped on the G-2 tower road was found not to be cleared for access to the north ranges. The individual was escorted from the area.

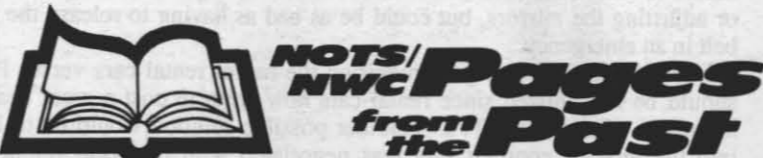
Auto safety hotline set

The National Highway Traffic Safety Administration has established a toll-free complaint hotline for drivers in the United States to solve personal auto safety problems.

Hotline operators provide callers with information on motor vehicle safety recalls, car crash test results and other information. They'll also take consumer complaints about possible safety defects.

The number is 800-424-9393. For hearing impaired: 800-424-9153.

For more information, write to: National Highway Traffic Safety Administration, Auto Safety Hotline/NEF-11-HL, 400 Seventh Street, S. W., Washington, D. C. 20590.



Twenty years ago next Wednesday (July 1), the Naval Ordnance Test Station became the Naval Weapons Center, one of the "Centers of Excellence" created under the Chief of Naval Material, Adm. I. J. Galantin.

Organizational changes at NWC included absorbing the Naval Ordnance Laboratory at Corona, which was absorbed into China Lake by the end of the decade.

The Pasadena Annex of NOTS administratively became part of the Naval Undersea Warfare Center that included personnel also from the Naval Electronics Laboratory at San Diego. NUWC retained ranges and personnel at Morris Dam, Long Beach and San Clemente Island.

Mission for NWC was to conduct warfare analysis, research, development, test, evaluation, systems integration, and fleet engineering support in naval weapons systems, principally air warfare, and to conduct investigations into related fields of science and technology.

Reassignment opportunities

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

No. 12-005, Interdisciplinary (General Aerospace/ Electronics/ Mechanical Engineer / Physicist/ Operations Research Analyst) DP-801/861/855/830/1310/1515-2/3, Code 12 (3 positions) - These positions are located in the Coordinated Warfare Group in the Weapons Planning Group. NWC, as SPAWAR's principal technical agent for Strike and Antisurface Warfare, will coordinate the efforts of NWC and other R&D Centers/Labs in architecture and engineering efforts in these warfare mission areas. NWC is also a major support laboratory for Anti-air Warfare, Electronic Warfare, Amphibious Warfare, Command and Control, Logistics, and Intelligence and a support laboratory for Mine Warfare. The Coordinated Warfare Group will manage NWC's participation in the development and assessment of Warfare Systems Architecture options in each warfare mission area and will assist SPAWAR in developing battle force architecture options. The incumbents will work across NWC's departments and with other laboratories to coordinate and direct analysis, technology and engineering efforts. Extensive travel will be required. The incumbents must be able to work well with technical personnel across the Navy lab system and with military operational personnel. They must adapt to a variety of job situations and to communicate effectively with personnel at all levels. To apply for these positions, submit a current SF-171 to Al Goettig, Code 12, NWC ext. 3251.

No. 31-050, Computer Scientist, DP-1550-2/3, Code 3159 - Serves as a computer/software systems engineer in the Sensor Systems Branch, Targeting Division, Aircraft Weapons System Integration Department. The incumbent will design, develop and implement operational software support capability for electro-optical avionics sensors (FLIR, Laser) and associated processors. In addition, the incumbent will also perform programming and software engineering tasks to support targeting technology demonstrations in flyable processor hardware. A general knowledge of tactical aircraft mission computer/avionics architecture, microprocessor design, software development and support systems is desirable. Broad experience is required in programming/hardware integration including Motorola 68000 series processors (assembly language), DEC minicomputers (VAX/VMS or PDP-11/RX), and one or more of the following high order languages: FORTRAN, Pascal, Ada. Please forward current SF-171 to D. Billings, Code 3159, NWC ext. 3588.

No. 36-054, Interdisciplinary (General Engineer/ Materials Engineer/ Electrical Engineer/ Electronics Engineer), DP-801/806/850/855-2/3, Code 3609 - The Phoenix Missile Technical Office has an opening for a Second Source Project Manager. The incumbent will coordinate and oversee all tasks as they relate to the Second Source effort at NWC. The incumbent will represent the Phoenix Missile Technical Office at meetings held at the contractor's facilities, NAVAIR, and other government activities. In addition, the incumbent will interact with senior engineers and Program Managers at NWC, NAVAIR and at the contractor's facilities. Extensive travel may be required. Please forward SF-171 to Joe Oliver, Code 3609, NWC ext. 1197.

No. 62-039, Electronics Engineer, DP-855-2/3, Code 62551 - The Advanced Systems Branch of the Range Department has an opportunity for a talented engineer with an interest in applying advanced video technology to range instrumentation applications. This position requires experience in analog design, video system design, electro optics, and/or system engineering. Also required is a desire to work with people, to work in a hands-on environment, and to occasionally leave the lab for field work. Our programs are relatively small, and our probability of fielding systems is high. The incumbent will be assigned to work in the Advanced Video Instrumentation Program with an acknowledged expert in the video field. Projects will include color video tracker, high-speed video, IR cameras, or digital image processing systems. For more information, contact Bob Harriman at NWC ext. 6337, or send your SF-171 to Code 6255.

No. 62-024, Electronics Engineer, DP-855-2/3, Code 62552 - The Advanced Systems Branch of the Range Department has an opportunity for an analog design engineer who would enjoy participating in the development of complex range instrumentation systems and following that development through to early deployment on the Range. This position requires experience in analog design, control system design, and system engineering. Also required is a desire to work with people, to work in a hands-on environment, and to occasionally leave the lab for field work. Our programs are relatively small, and our probability of fielding systems is high. The incumbent will be assigned to design major sub-

program plan, the incumbent will be responsible for preparation of test plans, arranging for test facilities, test instrumentation and data receipt and reduction, conduct of testing, and test reporting. The position requires being responsible for system Functional Development and Qualification testing and support of OPTVFOR Operational tests. Please submit current SF-171 to John O'Malley, Code 3207, NWC ext. 7289.

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systems of an advanced laser tracking system, as well as other complex range instrumentation systems. For more information, contact Bob Harriman at NWC ext. 6337, or send your SF-171 to Code 6255. Status eligibles may apply.

No. 64-188, Interdisciplinary (Mathematician/Physicist/ Computer Scientist), DP-1520/1310/1550-2/3, Code 64112 - This position is located in the Data Analysis Section of the Systems Development Branch. The section is responsible for the conduct of a variety of computer related tasks including simulation and mathematical modeling, reduction and analysis of test data, data base management, and computer systems management. The incumbent will perform duties in support of section activities including software development, data reduction and analysis, and computer system management. Desirable qualification includes a thorough working knowledge of the FORTRAN programming language; familiarity with the VMS operating system, DCL command language, and VMS system services; VAX VMS system management experience; knowledge of numerical analysis and digital signal processing techniques; familiarity with the UNIX operating system. Send an updated SF-171 to Jack Bates, Code 6411, NWC ext. 3664.

No. 33-007, Interdisciplinary (Electronics / Aerospace Engineer / Physicist), DP-855/861/1310-2/3, Code 3333 - This position is located in the Advanced Technology Projects Branch, which is involved in the design, development and production support of proximity fuzes and associated support test equipment for fleet missiles, both air and ship launched. Active radar and electro-optical technologies are used in this fuze development role. This branch is hardware oriented, and tasks routinely include work with digital and analog circuitry design and development, laboratory and field testing to include captive flight testing, performing feasibility investigations and contract management in support of task goals. The incumbent will perform duties as a senior team member supporting programs in the branch, which includes conducting advanced fuzing studies and development of proximity fuze devices for SPARROW, RAM, and AMRAAM missile systems. Please submit current SF-171 to Bill Vecchione, Code 3333, NWC ext. 1211.

No. 33-012, Interdisciplinary (Electronics / Industrial Engineer / Physicist), DP-855/896/1310-1/2/3 (three vacancies), Code 3337 - These positions are located in the Short Range Missile Fuze Branch, which is involved in the design, development and production support of proximity fuzes principally using active optical and passive optical technologies in the development cycle. This branch is hardware-oriented and tasks routinely include work with digital and analog circuitry

development, optical subsystems development, laboratory and field testing to include captive flight testing, performing feasibility investigations and contract management in support of task goals. The incumbent will perform duties as part of a team supporting programs in the branch, which includes development of, production support of, and advanced fuzing studies of target detection devices for SIDEWINDER, RAM and SIDEARM. Promotion potential to DP-3. Please send 171's to Jerry Mumford, Code 33306, NWC ext. 2856.

No. 33-016, Interdisciplinary (Electrical / Electronic Engineer), DP-850/855-1/2, Code 3336 - This position is located in the Phoenix Fuze Systems Branch, which is involved in design, development and production support of proximity fuzes and design support test equipment for fleet missiles. The incumbent will perform duties as part of a team supporting programs in the branch, which includes Phoenix, AAAM, and others. Interest in signal processing is desirable with background in radar systems a real plus. Promotion potential to DP-3. To apply, send current SF-171 to Larry Morrison, Code 3336, NWC ext. 1146.

No. 33-017, Interdisciplinary (Mechanical / Industrial / Chemical / General Engineer/ Chemist/ Physicist), DP-830/896/893/801/1310-2/3, Code 33505 - This position is the In Situ Insensitive Munitions Data Base Coordinator and is in the Insensitive Munitions Advanced Development Office for Air-Launched Ordnance Sections, Code 33505. The position requires the direction of Navy-wide data base development efforts addressing munition IM status, energetic materials characteristics, IM engineering technology, and platform effects. These various Navy and contractor facilities around the country. Moderately frequent travel (about one trip per month) is required. Some ordnance development experience is highly desired but not required. To apply, submit SF-171 to Pat Yates, Code 33505, NWC ext. 7408/7320.

No. 33-018, Interdisciplinary (Mechanical / Industrial / Chemical / General Engineer/Physicist), DP-830/896/893/801/1310-2/3, Code 33505 - This position is the deputy to the head of Code 33505, Insensitive Munitions Advanced Development Office for Air-Launched Ordnance Sections and involves extensive technical coordination with sponsoring offices in NAVAIR and NAVSEA, weapons program offices, other IMAD and IM technology development/transition programs and industry. Incumbent will also manage several of the technology development tasks being funded by the IMAD program. Duties require travel (about one trip per month, average), and frequent briefings to diverse groups on technology development plans and progress. Experience in the development of ordnance components or systems and with the Navy weapons acquisitions pro-

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Code 39 - Incumbent provides detailed and comprehensive security administration for compartmented top secret DOD research DOD research and development efforts. Travel will be required. Job Relevant Criteria: Knowledge of security procedures and requirements; skill in written and verbal communication; ability to deal with personnel at all levels; ability to work under pressure; ability to obtain a top secret clearance. Promotion potential to DA-3.

No. 61-010, Warehouse Worker, WG-6907-7, Code 614, (3 vacancies) - This position is located in the Aircraft Department, Ordnance Division. The incumbent will perform duties involving the receiving, shipping, storing, issuing and transporting of ammunition, explosives and components. Job Relevant Criteria: Ability to store, move, and ship ordnance and explosives; skill in use of material handling equipment and techniques; ability to interpret instructions, documents, etc.; knowledge of ordnance and explosives; dexterity and safety. Promotion potential to WG-7.

No. 62-036, Facilities Management Specialist, DA-1640-2, Code 6204 - The incumbent will be assisting the Facility Manager of the Junction Ranch Radar Cross-Section Range in maintenance, repairs, and improvements of the range; and will be target handling during test periods. The incumbent will work a "first-40" schedule. Job Relevant Criteria: Knowledge of range facilities; ability to deal effectively with all levels of personnel across organizational lines; ability to read and understand blueprints and drawings; ability to solve minor facility problems on own initiative. Promotion potential to DA-3.

No. 62-038, Support Services Specialist, GS-342-5/6, Code 6202 - The incumbent is responsible for procurement and equipment management assistance within the Range Department. Position requires frequent personal and telephone contacts with people at all levels. Job Relevant Criteria: Knowledge of supply regulations and procedures; knowledge of Center accounting systems; knowledge of Center equipment policies and procedures; ability to use Macintosh computer; ability to communicate orally. Promotion potential to GS-6.

No. 62-040, Electronics Technician, DT-856-1/2/3, Code 62322 - This position is in the Range Engineering Branch, Range Instrumentation Division, Range Department. The incumbent's duties are the repair, update, and maintain the servo systems used in cameras and optical tracking equipment, and the fabrication, check out and test of electrical and electronic assemblies to be used in range data-gathering instrumentation. Job Relevant Criteria: Ability to work from schematics and to perform layout and assembly of electronic components and to carry out documentation; knowledge of digital and linear circuits; ability to troubleshoot and repair electronic instrumentation systems and use electronic test equipment both in the field and shop environment. Status eligibles may apply. Promotion potential to DT-3.

No. 62-041, Supervisory Electronics Technician, DP-856-3, Code 62303 - Position is Head, Communications Engineering Office of the Range Instrumentation Division, Range Department. The incumbent specializes in long-term and short-term planning development, and application of communications engineering for the Range systems and facilities, and the T&E Directorate's COMSEC Program. The incumbent directs office personnel in the design, development, installation, operation and maintenance of protected communication systems required for the conduct of range test operations. He/she will be responsible for the technical and administrative supervision of office personnel, and for the documentation of office projects. Job Relevant Criteria: Knowledge of digital and analog voice, data and video processing systems; knowledge of planning, design, test operations and maintenance of complex communication systems; knowledge of COMSEC devices; of NWC air and ground ranges as well as national and service test ranges; ability to manage and supervise; to coordinate work with other groups on-Center and interact with off-Center organizations; ability to communicate effectively. Willingness to support NWC EEO goals and policies. Incumbent may be required to serve a one-year supervisory probationary period. A minimum of SECRET clearance is required. Status eligibles may apply. Promotion potential to DP-3.

No. 62-042, Supervisory Electronics Engineer, DP-855-3, Code 62303 - Position is Head, Communications Engineering Office of the Range Instrumentation Division, Range Department. The incumbent specializes in long-term and short-term planning development, and application of communications engineering for the Range systems and facilities, and the T&E Directorate's COMSEC Program. The incumbent directs office personnel in the design, development, installation, operation and maintenance of protected communication systems required for the conduct of range test operations. He/she will be responsible for the technical and administrative supervision of office personnel, and for the documentation of office projects. Job Relevant Criteria: Knowledge of digital and analog voice, data and video processing systems; knowledge of planning, design, test operations and maintenance of complex communication systems; knowledge of COMSEC devices; of NWC air and ground ranges as well as national and service test ranges; ability to manage and supervise; to coordinate work with other groups on-Center and interact with off-Center organizations; ability to communicate effectively. Willingness to support NWC EEO goals and policies. Incumbent may be required to serve a one-year supervisory probationary period. A minimum of SECRET clearance is required. Status eligibles may apply. Promotion potential to DP-3.

edit and proofread all technical publications, recommend modification in publications, and prepare repro copy for all types of publications. Duties also include format and layout, compiling of galley copies, and submitting manuscripts to printer. Job Relevant Criteria: Knowledge of editorial regulations and processes; ability to analyze and evaluate; attention to detail; ability in written and oral expression. Status eligibles may apply. To apply, submit a SF-171, Background Survey Questionnaire, and a copy of the most recent performance rating to: Civilian Personnel Department, Training Bldg. A (North Entrance), Rm. 113, Naval Air Station, Lemoore, CA 93246-5001. This ad closes 6 July, 1987.

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No. 065-L-87, Computer Operator, GS-332-6, VX-5 - This position is advertised for NAS, Lemoore, CA. The duty station is VX-5, China Lake, CA. This position is support the management of the squadron activities. Operates and generates operating systems. Performs hardware and software diagnostic tests and preventive maintenance. Allocates work schedules, monitors performance, counsels and trains employees. Assists with technical, production and administrative planning. Job Relevant Criteria: Ability to operate computer systems; knowledge of automated data processing; ability to follow instructions; ability to deal effectively with others. Status eligibles may apply. To apply, submit a SF-171, Background Survey Questionnaire, and a copy of the most recent performance rating to: Civilian Personnel Department, Training Bldg. A (North Entrance), Rm. 113, Naval Air Station, Lemoore, CA 93246-5001. This ad closes 6 July, 1987.

No. 066-L-87, Supply Clerk, GS-2005-5, VX-5 - This position is advertised for NAS, Lemoore, CA. The duty station is VX-5, China Lake, CA. The duties are to copy support the management of the squadron activities. Operates and generates operating systems. Performs hardware and software diagnostic tests and preventive maintenance. Allocates work schedules, monitors performance, counsels and trains employees. Assists with technical, production and administrative planning. Job Relevant Criteria: Ability to operate computer systems; knowledge of automated data processing; ability to follow instructions; ability to deal effectively with others. Status eligibles may apply. To apply, submit a SF-171, Background Survey Questionnaire, and a copy of the most recent performance rating to: Civilian Personnel Department, Training Bldg. A (North Entrance), Rm. 113, Naval Air Station, Lemoore, CA 93246-5001. This ad closes 6 July, 1987.

No. 061-L-87, Security Clerk (Typing), GS-303-5, VX-5 - This position is advertised for NAS, Lemoore, CA. The duty station will be VX-5, China Lake, CA. The duties of this position are to execute the classified control systems and assist with the physical security program. Receives, distributes, mails and controls all classified material. Inventories, coordinates and conducts destruction of classified material. Job Relevant Criteria: Knowledge of security and control procedures related to classified material; attention to detail; ability to maintain files and records; and ability to interpret written material. Status eligibles may apply. To apply, submit a SF-171, Background Survey Questionnaire, and a copy of the most recent performance rating to: Civilian Personnel Department, Training Bldg. A (North Entrance), Rm. 113, Naval Air Station, Lemoore, CA 93246-5001. This ad closes 6 July, 1987.

No. 062-L-87, Aircraft Logs & Records Clerk, GS-303-4, VX-5 - This position is advertised for NAS, Lemoore, CA. The duty station will be at VX-5, China Lake, CA. Duties include maintaining aircraft statistical data in aircraft logbooks and records. Drafts and types various reports and x-rays. Maintains aircraft historical files and report files. Job Relevant Criteria: Knowledge of aircraft logs and records procedures; knowledge of clerical/administrative procedures; ability to maintain files and records; and attention to detail. Status eligibles may apply. Applicants are encouraged to submit a separate sheet, to be attached to and submitted with SF-171, addressing each of the above ranking factors. To apply, submit a SF-171, Background Survey Questionnaire, and a copy of the most recent performance rating to: Civilian Personnel Department, Training Bldg. A (North Entrance), Rm. 113, Naval Air Station, Lemoore, CA 93246-5001. This ad closes 6 July, 1987.

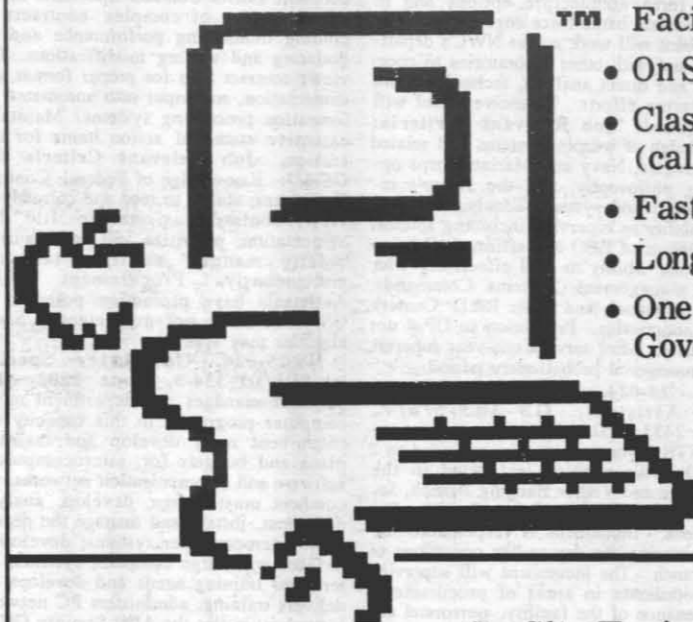
No. 063-L-87, Mail & File Clerk (Typing), GS-305-4, VX-5 - This position is advertised for NAS, Lemoore, CA. The duty station is VX-5, China Lake, CA. The duties of this position are to maintain the Central Technical Publications Library and assist the maintenance of all disbursed libraries, prepares publication order forms and distributes publications. Types letters, reports, and messages. Job Relevant Criteria: Knowledge of clerical/administrative procedures; ability to maintain files and records; ability to analyze and evaluate; and knowledge of correspondence procedures and forms. Status eligibles may apply. To apply, submit a SF-171, Background Survey Questionnaire, and a copy of most recent performance rating to: Civilian Personnel Department, Training Bldg. A (North Entrance), Rm. 113, Naval Air Station, Lemoore, CA 93246-5001. This ad closes 6 July, 1987.

No. 064-L-87, Editorial Assistant (Typing), GS-1087-5, VX-5 - This position is advertised for NAS, Lemoore, CA. The duty station is VX-5, China Lake, CA. The duties are to copy

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FERSA information given by board

Washington, D. C.--The Federal Retirement Thrift Investment Board announced June 3 that, beginning in January 1988, employees who are covered by the new Federal Employees' Retirement System and who contribute to the Thrift Savings Plan will be able to invest in a common stock index investment fund based on the well-known Standard and Poor's 500 (S&P 500) stock index.

The fund will be invested in common stocks included in the S&P 500, and its performance will relate to the performance of the index. The S&P 500, introduced in 1957, was designed by Standard & Poor's Corporation to provide a representative measure of stock market performance.

According to Francis X. Cavanaugh, Executive Director of the Board, "Many factors were considered in the selection of this particular index, including name recognition, ready availability of many private index managers, relatively low management costs, and the fact that the S&P 500 represents close to two-thirds or the aggregate market

value of the United States equity markets."

The Federal Employees' Retirement System Act of 1986 (FERSA) directed the Board to establish a Thrift Savings Plan comprised of three funds: a common stock index investment fund, a fixed income investment fund and a government securities investment fund.

The government securities investment fund began operations in April and is the only fund authorized for 1987. It is managed by the U. S. Treasury Department. During June, investments in that fund will earn interest at a rate of 8 5/8 percent.

The fixed income investment fund will also be starting in 1988. The Board will announce its investment policy for the fixed income fund this summer. "Requests for private market proposals to manage the investments of the fixed income and common stock funds will also be announced this summer in order to meet the January 1988 statutory start date," Cavanaugh said.

FERSA established the Thrift

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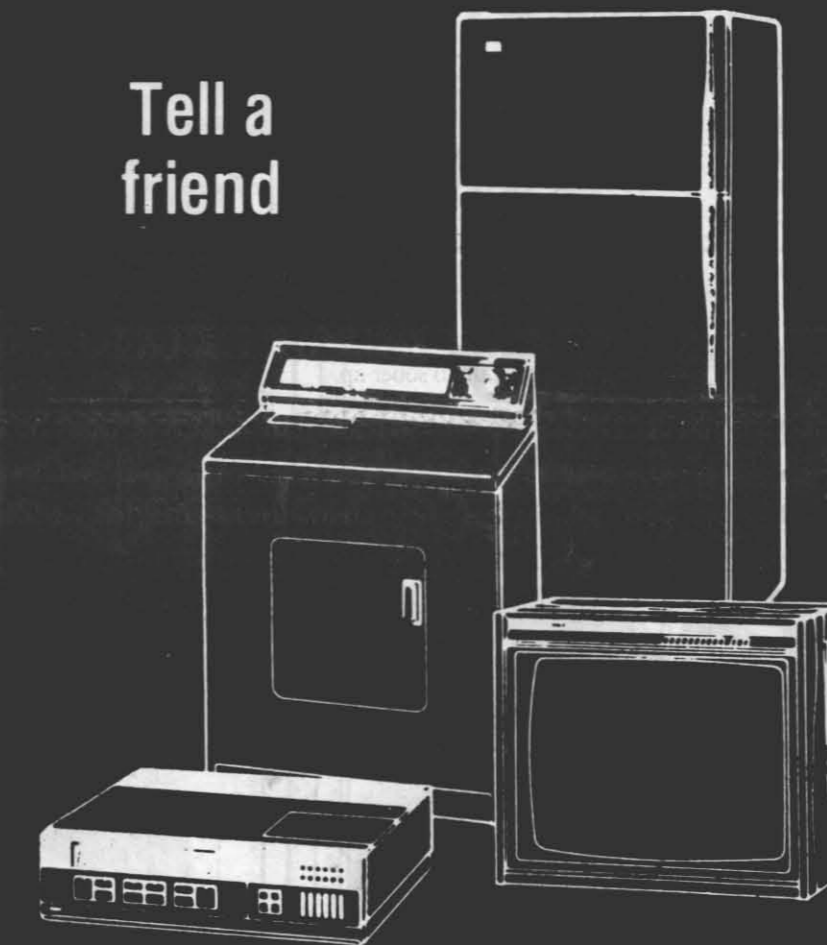
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Active duty military eligible for special ad deal

The *Rocketeer*, in cooperation with the printing contractor, Chalfant Press, will offer free military marketplace classified advertising to all active duty military personnel at China Lake, starting with the July 3 issue of the paper.

The deadline for submitting Military Marketplace ads is 3 p.m. Friday for the following week's *Rocketeer*. Military Marketplace ad forms can be picked up between 7:30 a.m. and 4:30 p.m. at the Military Administration Department office, VX-5 administration office, the *Rocketeer* office or at Chalfant Press-Rocketeer Advertising Department, 206 Balsam Avenue, Ridgecrest. Ads will be free for active duty military and their family members and will appear one time only unless resubmitted.

Military Marketplace ads may be used only for noncommercial classified ads containing items of personal property offered by and for individuals authorized to use this service. Such ads must represent incidental exchanges not of a sustained business nature.



Military News

NEX hosting big merchandise sale

Underway right now at the Navy Exchange is the outdoor activity sale, which will continue through June 28. By Wednesday, the July 4th clearance sale starts. It logically ends on July 4 itself, when the store will be open from 9 a.m. to 3 p.m.

Norton AFB welcomes MDISL tourney

Norton Air Force Base will host the Mojave Desert Interservice League Tennis Tournament on July 11-12. Any China Lake military personnel interested in participating in this competition should call the Center Sports Office at NWC ext. 2334 for additional information.

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TRAINING JUMP-PR3
Jeff Lundberg (above) goes over jump procedures with PRAA Susan Stamey, the newest test parachutist assigned to the Aerosystems Department at the Naval Weapons Center. At left, Airman Stamey has just pulled the release and starts her controlled descent in the paraloft used for training by members of the Parachute Test Operations Branch.

Photo by
PH3 Bob Reynolds



Promotional opportunities

Applications for positions listed in this column will be accepted from appointable Department of Navy employees within the area of consideration and from eligible employees of attached activities who are permanently assigned to NWC unless otherwise specified in the ad. Appointable means career or career conditional employees, temporary employees with reinstatement or VRA eligibility and employees serving under Veterans Readjustment Appointments (VRAs). Alternative recruitment sources may also be used in filling these positions; vacancies are subject to restrictions imposed by the DOD Priority Placement Program. Applicants must meet all legal and regulatory requirements including minimum qualification requirements by the closing date. Applicants will be evaluated on the basis of experience, education, training, performance ratings and awards as indicated in the SF-171 along with any tests, medical examinations, performance evaluations, supplemental qualification statements and/or interview that may be necessary. Career ladder promotions are subject to satisfactory performance and cannot be guaranteed. APPLICATION PROCEDURES: Candidates must submit a current SF-171, along with a supplemental qualifications statement (if required), and should submit a copy of their latest Annual Performance Evaluation if relevant to the vacancy. If a supplemental statement is not required, candidates are encouraged to submit additional information which then addresses the specific Knowledge/Skill/Abilities (KSAs) cited in the ad. Write the position title/series/level and announcement number on the SF-171 and all attachments. Be sure that your forms are complete and accurate since you cannot be rated on missing data nor will you be contacted for additional information. Be certain the SF-171 and supplement are dated and have original signatures in ink. All applications will be retained in the vacancy announcement file; they will not be returned or filed in official personnel folders. Applications and supplements are accepted at the Reception Desk, Room 100, Personnel Department, 505 Blandy. Ads close at 4:30 p.m. on Friday, one week after the announcement, unless otherwise specified. Applications received after 4:30 p.m. on the closing date will not be considered. The Naval Weapons Center is an Equal Opportunity Employer; selections are made without discrimination for any nonmerit reason.

No. 08-032, Program Analyst/Supply Systems Analyst, DA-345/2003-2/3, DP-345/2003-3, Code 0803. This position is located in the Financial Systems Project Office, Central Staff. The incumbent serves as functional manager of the supply and financial inventory subsystems of STAFS. As part of a team of functional managers, the incumbent plans for the implementation and use of STAFS, identifies problems with the STAFS software and submits change requests. He/she directs and coordinates the work of functional experts located in Central Staff and the Supply Department to insure that project tasks, as directed by the project manager, are completed satisfactorily and on time. He/she troubleshoots problems and provides assistance to other STAFS analysts. **Job Relevant Criteria:** Knowledge of the current NWC supply system; ability to plan and work closely with others. Promotion potential to DP-3.

No. 09-007, Clerk Typist/Employee Relations Clerk, GS-322-3/GS-203-3/4/5, Code 091 (2 vacancies). These positions provide clerical support to the Employee Relations Division. The positions may be involved with the Center's Incentive Awards Program, the retirement system, life insurance, adverse/disciplinary actions, labor relations, and other employee/labor relations programs. The incumbents will be responsible for typing, filing, compiling case files, summarizing data, drafting reports, and checking documents for completeness and accuracy within their assigned program area. These jobs require a high degree of tact and diplomacy in dealing with all levels of Center employees as well as with persons from outside of the Center. **Job Relevant Criteria:** Ability to comprehend and apply regulatory material; knowledge of word processing programs; ability to gather data; ability to prepare written reports; ability to type accurately and efficiently. Status eligibles may apply. Promotion potential to the GS-203-6.

No. 12-004, Supervisory Interdisciplinary (General/Aerospace/ Electronics/ Mechanical Engineer/ Physicist / Operations Research Analyst), DP-801/861/855/830/1310/1515-3/4, Code 12. This position is that of Director of the Coordinated Warfare Group in the Weapons Planning Group, NWC, as SPAWAR's principal technical agent for Strike and Antisurface Warfare. He will coordinate the efforts of NWC and other R&D Centers/Labs in architecture and engineering efforts in these warfare mission areas. NWC is also a major support laboratory for Anti-air Warfare, Electronic Warfare, Amphibious Warfare, Command and Control, Logistics, and Intelligence and a support laboratory for Mine Warfare. The Coordinated Warfare Group will manage NWC's participation in the development and assessment of Warfare Systems Architecture options in each warfare mission area and will assist SPAWAR in developing battle force architecture options and in cross warfare battle force engineering. The incumbent will work across NWC's departments and with other laboratories to coordinate and direct analysis, technology and engineering efforts. Extensive travel will be required. **Job Relevant Criteria:** Knowledge of weapon systems and related technologies, Navy and Marine Corps operating philosophy, and the Navy's requirements and systems acquisition structure; ability to supervise including interest and support of EEO and affirmative action programs; ability to deal effectively with NWC management, Systems Commands, Fleet personnel, and other R&D Centers and Laboratories. Promotion to DP-4 not automatic. Must serve a one-year supervisory/managerial probationary period.

No. 24-024, Supervisory Security Assistant, GS-303-5/6/7, Code 2433. (This is a temporary position NTE 1 year. It may be extended to 2 years.) This position is located in the Employee and Visitor Badging Branch, Security Division, Safety and Security Department. Incumbent is responsible for administering the day-to-day operations of the branch. The incumbent will supervise and coordinate in areas of procurement, maintenance of the facility, personnel actions, staffing and personnel assignments, and training and written reports. Incumbent schedules and approves leave in accordance with workload requirements. Incumbent works independently and is responsible for dealing with all levels of personnel both on and off-center. Assumes the responsibilities of the branch head in his/her absence. **Job Relevant Criteria:** Knowledge of Naval security policies and regulations and NWC security practices and procedures; DOD/DON personnel regulations for security clearances/access; NWC EEO and affirmative action programs. Ability to effectively supervise and manage; to effectively communicate orally and in writing. Supervisory probationary period may be required. Status eligibles may apply. Promotion potential to GS-303-7.

No. 25-019, Administrative Officer, DA-341-2/3, Code 25021. Provide a full range of administrative support functions to operating organizations in the Supply Department and consultation and advice to the responsible managers. Duties include coordination of

all resource management, organizational analysis, administrative policy and safety and security programs. **Job Relevant Criteria:** Knowledge of management techniques, practices, methods and principles; knowledge of Navy personnel policies and procedures including safety and security programs; ability to collect and analyze data; ability to communicate orally and in writing. Promotion potential to DA-3, but not guaranteed.

No. 25-020, Contract Specialist, DA-1102-1, Codes 2511, 2512, 2513, 2521, 2523, 2524, 25A21, 25A11. Re-advertisement. Previous applicants need not reapply. The incumbent, under close supervision of a senior Contract Specialist, is provided with progressively responsible experience in analyzing packages, negotiating with contractors, awarding and administering wide variety of contract actions. Experience gained in all facets of Government R & D contracting. **Job Relevant Criteria:** Knowledge of business practices; ability to gather, compile and analyze data; ability to deal effectively with people; ability to communicate orally; ability to communicate in writing. Status eligibles may apply. Promotion potential to DP-3, but not guaranteed.

No. 25-025, Procurement Clerk/Procurement Assistant, GS-1106-4/5/6/7, Code 2523. Incumbent is responsible for providing clerical support in the form of typing (utilizing Xerox 860 word processor), filing, compiling data, maintaining logs, and performing follow-up on action item suspense dates for a wide variety of contractual actions. Maintains instructions and FAR Clause books, reviews correspondence and suspense action items, and receives visitors and telephone calls. Uses a wide variety of guidelines, including DOD and Navy Acquisitions Regulations books. **Job Relevant Criteria for GS-4/5:** Knowledge of correspondence regulations and contractual terminology; ability to meet with people effectively and prioritize work under heavy workload conditions. At the assistant level, the incumbent assists Contract Specialist in the administration of complex contracts including monitoring performance and negotiating and writing modifications. Reviews contract files for proper format, documentation, and input into automated information processing systems. Maintains extensive status of action items for the section. **Job Relevant Criteria for GS-6/7:** Knowledge of Federal Contract Procedures; ability to read and correctly review contracts; organize file documentation; prioritize and process in an orderly manner, multiple tasks simultaneously. Procurement Clerk/Assistants have promotion potential to GS-7, however not guaranteed. Status eligibles may apply.

No. 25-024, Computer Specialist, DS/DP-334-4, Code 2502. Incumbent manages the department microcomputer program. In this capacity the incumbent must develop and maintain plans and budgets for microcomputers, software and communication networks. Incumbent must design, develop, analyze, document, install, and manage the department microcomputer systems; develop interfaces with large computer systems; determine training needs and develops and delivers training; administers PC network. Incumbent is also the ADP Security Officer for the department. **Job Relevant Criteria:** Knowledge of computer requirements and techniques; knowledge of management information systems; knowledge of management techniques, practices and principles; and ability to collect and analyze data. Promotion potential to DP-3 but not guaranteed.

No. 26-028, Procurement Clerk (Typing), GS-1105-4/5, Code 2672. Assists in the administration of contracts under the Contract Administration Branch. The function of this position is to assure the prompt processing of work orders, invoice processing, Data Base Management of Contractual data, contract files, change order processing, and other related contract functions. **Job Relevant Criteria:** Knowledge of procurement procedures and office administration procedures; ability to work with others and to communicate orally and in writing; ability to plan work and adapt to shifting of priorities. Promotion potential to GS-5. Previous applicants need not apply. Status eligibles

may apply. **No. 32-255, Program Analyst, DA-345-2/3, Code 3207.** This position is located in the Laser Guided Training Round (LTGR) Program Office, Code 3207, Ordnance Systems Department. The incumbent will provide staff service to the program manager and other program personnel as necessary. Duties include: Proposes, coordinates, plans, and prepares program budgets, work unit plans, and proposed development or product improvement plans. Plans, coordinates, schedules, and monitors specific program tasks, such as foreign military sales (FMS) and government furnished material (GFM). Prepares short and long range financial plans, life cycle cost studies, and design to cost studies. Analyzes impact of changes and deviations from plans and schedules. Is responsible for accomplishment of all administrative tasks connected with financial management, contract administration, acquisitions, personnel, equipment control, security, safety, and facilities. **Job Relevant Criteria:** Knowledge of Navy budget and financial accounting systems; ability to collect and analyze data; knowledge of Navy funding process; ability to communicate orally and in writing. Promotion potential to DA-3 if selection at lower level, but promotion not guaranteed.

No. 32-261, Supervisory Chemical Engineer, DP-893-3, Code 3272. Incumbent serves as Head, Propellants Branch. Responsible for management, supervision, and administration of a large branch involved in research and development of new propellants, processing of propellants for rocket motors, physical and chemical testing, and aggressive safety program. **Job Relevant Criteria:** Knowledge of propellants and rocket motors; knowledge of propellants programs; knowledge of quality assurance; knowledge of safety procedures. Willingness to support EEO policies and goals. Ability to supervise. Promotion potential to DP-4. Supervisory probationary period required if not selected.

No. 35-020, Computer Specialist, DS-334-1, Code 3527. The incumbent will be responsible for data management and change control of documentation for HARM Low Cost Seeker software. The incumbent will be responsible for balancing of Yourdon analysis and design software documentation packages, and will produce and track finished software documentation using a new software tool called Design-Aid. The incumbent is responsible for research and development of new procedures to define and produce software for the integrity of the software packages. The incumbent is responsible for keeping Analysis and Design Guidelines current. The incumbent will also coordinate the software library and various data bases. Coordination of data entry personnel may be required. **Job Relevant Criteria:** Knowledge of programming language including Pascal data base structures such as Data Base Configuration DEC VAX computers and of IBM compatible personal computers; knowledge of structured design processes; knowledge of NWC configuration management procedures; ability to communicate well orally. Promotion potential to DS-2. Status eligibles may apply.

No. 35-021, General Supply Specialist, DA-2001-1, Code 35025. The incumbent will be involved in planning and directing programs for purchasing supplies, equipment, material, and services, utilizing small purchase procedures which include use of purchase orders, blanket purchase agreements, delivery orders and imprest funds. The incumbent will perform follow-up programs to ensure the timely receipt of materials and services ordered. Incumbent gathers and provides information to higher management to assist in policy formulation. **Job Relevant Criteria:** Knowledge of NWC procurement procedures, Navy regulations and in-depth knowledge of governing supply regulations, policies and procedures; ability to analyze acquisition packages for adequacy, validity and clarity and perform cost/delivery analysis; knowledge of specialized and technical terminology to ascertain errors on Material Requests and associated documents; ability to exercise initiative and judgment in precedent situations and perform duties with little or no supervision. Experience with Apple Macintosh computers desirable. Promotion potential to DA-2. Status eligibles may apply.

No. 35-022, Supervisory Equipment Specialist (General), DS-1670-2, Code 35025. This position is Head, Materials Acquisition Office in the Electronic Warfare Department. The incumbent is the supervisor of the department's Pre-Procurement Group and as such is responsible for pre-procurement procedures for all Code 35 purchase requests. Duties include vendor selection, review of procurement actions for completeness and accuracy, advising requestors on procurement requirements and procedures, interface with Code 25 buyers and contract specialists, assistance in preparing procurement documentation, and placing orders with vendors. **Job Relevant Criteria:** Knowledge of NWC procurement procedures and Navy regulations; knowledge of equipment and electronic parts and the ordering process pertaining to equipment; ability to analyze data and establish guidelines for expediting material requests to meet the material resource needs of the department; ability to work well with others. Experience with Apple Macintosh computers desirable. Promotion potential to DS-3. Status eligibles may apply.

No. 36-053, Engineering Data Management Specialist, DS-301-3, Code 3609. The Phoenix Missile Technical Office has an opening for a Second Source Project Manager. The incumbent will coordinate and oversee all tasks as they relate to the Second Source effort at NWC. The incumbent will represent the Phoenix Missile Technical Office at meetings held at the contractor's facilities, NAVAIR, and other government activities. In addition, the incumbent will interact with senior engineers and program managers at NWC, NAVAIR, and at the contractor's facilities. Extensive travel may be required. **Job Relevant Criteria:** Knowledge of DOD-D-1000; knowledge of MIL-STD-100; knowledge of DOD-STD-480; knowledge of MIL-STD-490; knowledge of naval acquisition procedures and contracts. Promotion potential DP-3.

No. 39-030, Interdisciplinary (General/ Electronics/ Mechanical/ Aerospace/ Industrial Engineer/ Physicist), DP-801/855/830/861/896/1310-3/4, Code 3907. This position is that of Project Manager for Production, Cruise Missile, Weapons Department. The Cruise Missile Project is in production and has several components in development that will add improved capabilities. The NAVWCNEN is the cognizant activity for NAVAIR, with a lead role in both development and production. The incumbent is responsible for the technical management of all NWC involvement in Cruise Missile production. **Job Relevant Criteria:** Ability to perform as a technical manager; ability to deal effectively with management, Cruise Missile Office, SYSCOMS, other DOD agencies and contractors; knowledge and experience in missile production disciplines, including configuration management and product assurance. Filing position as a promotion to the DP-4 level is subject to approval.

No. 39-031, Interdisciplinary (Electronics/ Mechanical/ Aerospace/ Industrial Engineer/ Physicist), DP-801/855/830/861/896/1310-3/4, Code 3907. This position is that of Project Manager for Development, Cruise Missile, Weapons Department. The Cruise Missile Project is in production and has several components in development that will add improved capabilities. The NAVWCNEN is the cognizant activity for NAVAIR, with a lead role in both development and production. The incumbent is responsible for the technical management of all NWC involvement in new development programs, theoretical studies/tradeoff studies, effectiveness analyses, and requirements definition. **Job Relevant Criteria:** Knowledge of NWC SYSCOMS, OPNAV and DOD weapons development/systems acquisition policies and procedures; ability to perform as technical manager; ability to deal effectively with NWC management, Cruise Missile Office SYSCOMS, other DOD agencies and contractors; knowledge and experience in configuration management and product assurance disciplines; knowledge of surface-launched missile systems. Filing position as a promotion to the DP-4 level is subject to approval.

No. 39-032, Security Specialist, DA-080-1/2/3, (two vacancies)

No. 39-033, Security Specialist, DA-080-1/2/3, (two vacancies)

No. 39-034, Security Specialist, DA-080-1/2/3, (two vacancies)

No. 39-035, Security Specialist, DA-080-1/2/3, (two vacancies)



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Fish ready for anglers

Summer is here and the fishing, if not easy, is at least good in most of the eastern Sierra region according to the Bishop Chamber of Commerce this week.

In the Bishop area, South and North Lakes are reported giving up 12-to 14-inch rainbow trout and a few browns. Nightcrawlers and Super Dupers brought the best results last weekend. Anglers fishing from boats have done very well on the backside of South Lake.

Lake Sabrina and the forks of Bishop Creek are planted weekly, and have been producing nice hauls of pan-size rainbows on worms, floating cheese bait and green body mosquito lures.

Some of the best fishing in the Owens Valley comes at the upper end of the Owens River, near Pleasant Valley Reservoir. Anglers there are doing well using olive nymph flies in the evening or fishing with red eggs, Cyclops lures or worms.

Lower Rock Creek is giving up pan-size rainbows on most baits. Anglers do best fishing early in the morning or in the evening.

Crowley Lake fishing is rated slow by most anglers. Flat tuber lures or flies, including elk hair caddis, mixed mosquito patterns and parachute caddis patterns have been the most effective attractions to fish.

In the Red's Meadow area the San Joaquin River is very good for anglers using May fly imitations and various nymphs.

Mammoth Creek is well stocked with pan-sized rainbow trout. Best results have been obtained with small lures, worms or red salmon eggs on spinning tackle in Mammoth Creek. All the lakes in the Mammoth Lakes area have been reported as fair to good for planted rainbows.

Anglers fishing the June Lake Loop will find all the lakes with fair to good fishing. June Lake is yielding lots of limits of pan-sized planted trout on red eggs, marshmallows and floating cheese bait to those fishing from boats near the beach area.

Two in loop undefeated

Two unbeaten teams remain atop the heap in this summer's NWC Intramural Softball League. Desert Sun Air's 7-0 record leads the league, while the Outlaws are just half a game back with a perfect 6-0 tally. The Softball Team is at 6-1, while Bad-To-The-Bone is 5-2. The only other teams sporting winning records are TNT at 5-3 and the Ain'ts at 4-3. Every team in the league has now recorded at least one victory.



SEEING DOUBLE?--Identical twins PR2 Raymond E. (left) and Ronald C. Barton may have left on-lookers at least a little bemused when they turned up to reenlist in the U.S. Navy last week. They saw double and heard double as well when the twins from Calarence, Missouri repeated the oath before signing reenlistment papers. Many of their friends, co-workers and family members watched as they shipped over and took part in the traditional cake cutting. The twins will pass eight years on active duty in August. They have been China Lakers, working in the Aircraft Intermediate Maintenance Division (AIMD) as aircrew survival equipmentmen since 1983.

Remember!
Early Rocketeer deadline!

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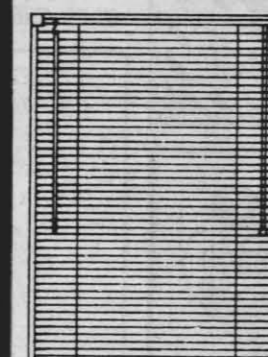
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Geologists aim for 'zero downtime'...

(Continued from Page 1) recorders at three locations on the Center to enable engineers to study the response of buildings and soil structure to earthquakes. From data gathered, structure design can be improved to enable these to better resist earthquake motion.

Drs. Glenn Roquemore and John Zelmer from the Office of Applied Geoscience are involved with the growing science of earthquake prediction.

NWC participates in a USGS program networking 250 seismographs throughout southern California. (Seismographs register when an earthquake occurs and its strength. By comparing data gathered from two or more seismographs, geologists can then determine the exact location of the epicenter of a quake and its strength.)

Seventeen seismographs

are located throughout NWC lands. Data from these go by dedicated telephone line to the California Institute of Technology for analysis. About two weeks later the final analysis of the research quality data becomes available to Code 38908. Such information gathering forms an important role in the possibility of predicting future seismic events. The same events are measured locally for monitoring purposes.

When funding becomes available, seismographs aboard the Center can be hooked up to a microcomputer locally to speed the analysis effort. Until that time, four of the seismographs are hooked up to drum recorders in the Seismographic Laboratory in the Earth and Planetary Sciences building. Data gathered from these drum records are then analyzed by one of the Center's VAX

computers to provide preliminary information about seismic activity.

The University of California has also set up two dry tilt arrays used to measure bulging or warping on fault prior to a quake.

Tiltmeters are used to measure slight changes in the tilt of the earth's surface, usually in relation to a liquid-level surface or to the rest position of a pendulum.

Dry tilt is based on trilateration, a method of surveying in which the length of the three sides of a series of touching or overlapping triangles are measured with electronic measuring devices and the angles are computed from the measured lengths. Changes as small as 1 or 2 millimeters in a kilometer can be measured using this extremely sensitive measure.

The USGS has also installed a dense geodetic

network on Center lands consisting of a series of benchmarks measured for vertical or horizontal changes in position relative to each other; in this way any deformation prior to or following a quake can be precisely determined.

Preparation for a quake can reduce dramatically the amount of damage it can cause. The Office of Applied Geoscience works closely with the Center's Disaster Preparedness Program to assist individuals, branches and departments on board prepare offices or homes to withstand quakes.

As part of a public information program, they are ready to speak to any Center or local organization about earthquakes and disaster preparations. It requires little beyond education, awareness and caring to survive an earthquake.

Shots a must for children

Immunizations against childhood diseases are required by the State of California for children entering school or child care/day care centers. These immunizations can be obtained at low cost through Kern County Public Health Department.

The next immunization clinic will be held in Ridgecrest on Monday, July 6, from 8:30 to 11:30 a.m. and 1 to 3 p.m. Immunizations will be given to children aged 2 months through 17 years at the Health Department Building, 250 W. Ridgecrest Boulevard. No appointments are necessary, but a parent or guardian must accompany the child to sign a consent form.

Cost of each immunization is \$3, with a maximum of \$5 per family per visit. Credit cards, insurance forms or large bills will not be accepted.

Immunizations offered are diphtheria, tetanus, pertussis (whooping cough), mumps, measles, rubella (German measles) and polio. Hib vaccine--to prevent meningitis caused by haemophilus influenza type b--is also available at \$3 per immunization.

Hoop league

Early results from the NWC Summer Adult Basketball League finds Fairchild leading the loop with a 3-0 record. Tied for second are Pioneer and Burgstahler with identical 1-0 records. This intramural league features games Tuesday through Thursday starting at 6 p.m. in the Center Gym.

Golf action

Two teams are tied for early leadership in Intramural Military Golf League play. Perkins and Shorn have 1-1 records in the four team league. Washburn and Spiller have yet to play their opening matches. The teams tee up at 4:30 p.m. each Monday at the China Lake Golf Course.

Water polo with tubes

Want to be just a little crazy this summer? Then try competing in inner tube water polo sponsored by NWC's Recreational Services Department in the gym's indoor pool. On Mondays from 7 to 9 p.m. the pool is reserved for this cure for summer blahs. There is a \$1 per person fee and inner tubes to fit all shapes are available. For more information call the Information Ticket and Tour Office at NWC ext. 2010.

Raft trips planned for river rats

River rats have two chances to enjoy a wet and wild white water rafting trip down the upper Kern River. Trained professionals will guide the rafters through raging rapids and foaming white water. This trip is designed for 12 to 17 year old youths. On June 30 and again on July 9, transportation will leave for the river at 9 a.m. with the wet and tired river rats returning by about 4 p.m. The trip costs \$20 for military dependents and \$25 for dependents of DOD civilians. For more information please call the ITT Office at NWC ext. 2010.

Swimming lessons offered in summer

Swimming lessons are being offered by NWC's Recreational Services Department all summer long. The next session begins Monday, June 29 for beginners and advanced beginners. Register at the Center Gym. For additional information please call NWC ext. 2571.



Photo by PH3 Bob Reynolds

BUT COACH!--Mike Mayhugh of the China Lake Little League Dodgers tries to explain why he was cut down attempting to steal third base as the Dodgers faced the Tigers on Tuesday night. The Dodgers whipped the Tigers 12-7 to remain undefeated in the second half of the season after winning the first half championship in the major division. Since the Dodgers were easy winners no one was too upset with Mike's thwarted steal.

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Telecommunication show

All Center personnel are invited to a telecommunication seminar and equipment show sponsored by the Ordinance Systems Department.

The show will be held from 9 a.m. to 4 p.m. July 1 and 2 at the CLPL Cafeteria.

"See the fiber fly--including an 80 megabyte ethernet" say the seminar presenters.

More information or a schedule of the seminars can be obtained from John Francis, Code 3202, NWC ext. 7259.

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Call: NWC ext. 3636 (24 hrs.)
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O' CLUB JULY LUNCH SPECIALS

WED 1	Salisbury Steak & Split Pea Soup
THU 2	Chimachungas & Beef Noodle Soup
FRI 3	CLOSED FOR HOLIDAY
MON 6	SEWINDER SPECIAL - Hot Turkey Sandwich & French Onion Soup
TUE 7	BBQ Beef & Chicken Noodle Soup
WED 8	Tips & Noodles & Navy Bean Soup
THU 9	Chicken Fry & Hamburger Soup
FRI 10	Scallops & Fries & Manhattan Clam Chowder
MON 13	SEWINDER SPECIAL - Roast Pork & Lentil Soup
TUE 14	Taco Salad & Cream of Chicken Soup
WED 15	Meatloaf & Beef Barley Soup
THU 16	Fried Chicken & Split Pea Soup
FRI 17	Fish Sandwich & New England Clam Chowder
MON 20	SEWINDER SPECIAL - Chili Relleno & Cream of Mushroom Soup
TUE 21	Lasagna & Minestrone Soup
WED 22	Stuffed Cabbage & Cream of Potato Soup
THU 23	Swiss Steak & Cream of Broccoli Soup
FRI 24	Tuna Casserole & Shrimp Bisque Soup
MON 27	SEWINDER SPECIAL - Stuffed Bell Peppers & Tomato Soup
TUE 28	Cannelloni & Chicken Vegetable Soup
WED 29	Veal Cutlet & Navy Bean Soup
THU 30	Pork Chops & Potato Soup
FRI 31	Beer Batter Fish & Manhattan Clam Chowder

O' Club Specials Of The Month

Early Bird Special - Dine between 5:30 and 6:30 p.m., Tuesday through Friday (except on special nights) and get a Sirloin Steak Dinner for only \$4.95.

Special Of The Month - Come in any time in July and get a Broiled Chicken Dinner for only \$5.95.

Tuesday Night Special - Every Tuesday night from 5:30 to 8:30 p.m. and get a T-Bone Steak and Shrimp Dinner for only \$7.95. Kids under 12 get FREE Spaghetti.

Thursday Night Special - Every Thursday night from 5:30 to 8:30 p.m. get a delicious Steak & Crab Leg Dinner with one refill of Crab Legs for only \$7.95. Kids under 12 eat FREE Spaghetti.

Entertainment for July at EM

Get into the groove and dance the night away as we present our disco nights at the EM Club! For more information please call 939-2581. June Thomes is the Enlisted Club Manager.

WED July 1	UPSTAGE
WED July 8	UPSTAGE
WED July 15	SOUNDWAVES
FRI July 17	SOUNDWAVES
WED July 22	DISC WERKS
FRI July 24	DISC WERKS
WED July 29	UPSTAGE
FRI July 31	UPSTAGE

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July Bulletin Board at the O' Club

* All you can eat & drink, Broiled Chicken & Wine, Wednesday, July 15 only \$7.95. Reservations required by July 13.

* Try our Soup & Salad Bar! Tuesday thru Friday, 11:00 a.m. to 1:00 p.m., and only \$3.25, all you can eat!

* Come and listen to our Piano Bar, every Thursday & Friday from 6:00 to 9:00 p.m.

* **Dinner & Cocktail Theater** August 21, 22, 28 & 29. Dinner & Show dates are August 21 & 28, for \$17.50 per person. Cocktail Show dates are August 22 & 29. Tickets are \$6.50 per person. Tickets will be sold in advance. For more information please call 939-3105 or 446-2549.

Membership Night

This month's membership night will be on Friday, July 31. Make reservations by July 29th at 4:00 p.m. A succulent Cornish Game Hen dinner will be served from 6:00 to 9:00 p.m. For your listening and dancing pleasure we will feature the exciting band "Four Fabulous Crowns" direct from Las Vegas beginning at 8:00 p.m. For information and reservations call 446-2549 or 939-3105.

Live Band Entertainment

Reminisce about the days of old as the Chiefs' Club brings you the sounds of yester-year with our entertainment for July. On Friday, July 17, we will feature a live band playing your favorite oldies but goodies from the 40's, 50's & 60's. For more information please call the Chief's Club at 939-3634. Mr. Floyd Hoisington is the Acting Manager, Chief Petty Officers' Club.

Lunch Specials for July at Chiefs' Club

WED 1	Barbeque Beef
THU 2	Polish Sausage
FRI 3	Holiday Club Closed
MON 6	Meatloaf
TUE 7	Chicken Fried Steak
WED 8	Swiss Steak
THU 9	Baked Chicken
FRI 10	Icelandic Cod
MON 13	Spaghetti & Meatballs
TUE 14	Chicken Fried Steak
WED 15	Beef Stroganoff
THU 16	Turkey Ala King
FRI 17	Icelandic Cod
MON 20	Beef Stew
TUE 21	Chicken Fried Steak
WED 22	Chicken Teriyaki
THU 23	Shrimp Fried Rice
FRI 24	Icelandic Cod
MON 27	Hamburger Steak
TUE 28	Chicken Fried Steak
WED 29	Sweet & Sour Pork
THU 30	Sloppy Joes
FRI 31	Icelandic Cod

July dinner specials Chiefs' Club

WED 1	Steak & Lobster
THU 2	Leg Of Lamb
FRI 3	CLUB CLOSED
TUE 7	New York Steak
WED 8	Steak & Crab Legs
THU 9	Lasagna
FRI 10	Prime Rib/White Fish
TUE 14	T-Bone Steak
WED 15	Steak & Lobster
THU 16	Leg Of Pork
FRI 17	Prime Rib/White Fish
TUE 21	Porterhouse Steak
WED 22	Steak & Crab Legs
THU 23	Ginger Pot Roast
FRI 24	Prime Rib/White Fish
TUE 28	Rib Eye Steak
WED 29	Mongolian Barbeque
THU 30	Roast Tom Turkey
FRI 31	Prime Rib/White Fish

Gourmet Night

Delight in some mouth watering gourmet meals every Wednesday night in the Chiefs' Club Dining Room as we present Gourmet Night. The following meals are planned for July:

July 1	Steak & Lobster
July 8	Steak & Crab
July 15	Steak & Lobster
July 22	Steak & Crab
July 29	Mongolian Barbeque only \$4.00 per ounce

EM Club presents Pool tournaments

Chalk up your pool cue and get ready for some exciting pool competition! This month's pool tournaments are scheduled on the following dates:

Friday July 10
Friday July 24

For sign-up or for more information, please call 939-2581.

EM Club July Dinner Specials

WED 1	Pork Chops
THU 2	Steak and all the Shrimp You Can EAT!
FRI 3	CLOSED FOR HOLIDAY
SAT 4	CLOSED FOR HOLIDAY
MON 6	Dining Room Closed- Grill orders in Lounge
TUE 7	Top Sirloin Steak
WED 8	Broasted Chicken
THU 9	COOK YOUR OWN STEAK OUTSIDE BBQ & POOL PARTY (regular menu available inside)
FRI 10	Lobster Dinner
SAT 11	Dining Room Closed-Deli Sandwiches in Lounge
MON 13	Dining Room Closed- Grill Orders in Lounge
TUE 14	Top Sirloin Steak
WED 15	Roast Beef
THU 16	ALL THE CATFISH AND HUSHPUPIES YOU CAN EAT!
FRI 17	Salmon Steak
SAT 18	Dining Room Closed-Deli Sandwiches in Lounge
MON 20	Dining Room Closed-Grill Orders in Lounge
TUE 21	Top Sirloin Steak
WED 22	Spaghetti
THU 23	OUTSIDE PATIO BBQ-COOK YOUR OWN STEAK & POOL PARTY (regular menu available in Lounge)
FRI 24	Steak & Lobster
MON 27	Dining Room Closed-Grill Orders in Lounge
TUE 28	Top Sirloin Steak
WED 29	Ham Steak
THU 30	STEAK & ALL THE SHRIMP YOU CAN EAT
FRI 31	Trout Ala Mere

Enlisted Club July Lunch Specials

WED 1	Chicken Fried Steak/Lasagna
THU 2	Spanish Fiesta
FRI 3	CLOSED FOR HOLIDAY
MON 6	Swedish Meatballs
TUE 7	Liver & Onions
WED 8	Chicken Fried Steak/Spaghtti w/Salad
THU 9	OUTSIDE PATIO BBQ
FRI 10	Fish Day

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CHIEF PETTY OFFICERS' CLUB

Steak night

Every Tuesday is Steak Night at the Chiefs' Club! Join us for a super steak dinner at the super price of \$7.95. Included in your meal is a complimentary glass of wine, and a trip to our fantastic Salad Bar. The following Steak Nights are planned for July:

July 7	New York 10 oz.
July 14	T-Bone 14 oz.
July 21	Porterhouse 14 oz.
July 28	Ribeye

Healthy Cuisine

Daily Feature

Featured daily at the Enlisted Club Healthy Cuisine features. Our is the exciting "For Your Health TACO SALAD with beef or Burger" a scrumptious mix of ground turkey (no salt, all natural GROUND TURKEY, EGG-seasonings in turkey) will be BEATERS, & FLOUR. There is no featured July 1 & 2, July 13 through salt and it is served with a crisp 17 and July 27 through July 21. Green Salad and LITE Dressing.



Weekly Feature

Savor the taste of our weekly our beef or chicken (seasoning does contain some salt) fajitas from July 6 through 10 and July 20 through 24. Choose a half-size fajita pita for \$2.75 or go for the whole size for only \$3.50.

Fajita Pita lovers will enjoy our beef or chicken (seasoning does contain some salt) fajitas from July 6 through 10 and July 20 through 24. Choose a half-size fajita pita for \$2.75 or go for the whole size for only \$3.50.

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