

**Movies**

FRI-SUN. "HOOSIERS" JULY 17-19  
Starring Gene Hackman and Barbara Hershey (Sports Drama, rated PG, 115 min.)

TUES. NO MATINEE JULY 21

WED. "ALLAN QUATERMAIN & THE LOST CITY OF GOLD" JULY 22  
Starring Richard Chamberlain and Sharon Stone (Adventure, rated PG, 100 min.)

THURS. NO MATINEE JULY 23

FRI. "THE MORNING AFTER" JULY 24  
Starring Jane Fonda and Jeff Bridges (Suspense, rated R, 103 min.)

Starting Times: Matinee / 2 pm Evening / 7 pm

(G) ALL AGES ADMITTED  
(PG) PARENTAL GUIDANCE SUGGESTED  
(R) RESTRICTED  
Under 17 Requires Accompanying Parent or Adult Guardian

**Weather Report**

	Max	Min	Peak Gusts
Thurs.	100	66	17 knots
Fri.	100	72	31 knots
Sat.	99	69	29 knots
Sun.	104	67	21 knots
Mon.	109	67	15 knots
Tues.	111	67	19 knots
Wed.	106	77	26 knots

All measurements are made at Armitage Airfield.

**Community Events**

Jack Bauer and Company return to China Lake for another performance of their show, "Magic Magic," featuring comedy, magic and music.

This fun-filled family entertainment will be seen at the Center theater on Sunday, July 19 at 2 p.m. Cost of admission is \$2 for adults and \$1.50 for children. Tickets can be purchased at the door.

More information can be obtained from the Information, Ticket and Tour Office at NWC ext. 2010.

From 8 p.m. until midnight, DJs will provide favorite dancing tunes Wednesdays, Thursdays and Sundays at the Enlisted Mess. On Friday, the dancing fun is from 9 p.m. until 1:30 a.m. Disco the week away for only \$2 per person, with active-duty military paying only \$1 per person. Check the monthly "Roadrunner" for who's playing and when.

Enjoy fine food and dance to the music by the "Legends" tonight at the Chief Petty Officers' Mess. Music will begin at 8:30 p.m. Next Friday, July 24, disco to the music of "Soundwaves," beginning at 8:30 p.m. Check the monthly "Roadrunner" for upcoming events.

**Snack bar hours**

Because of increased patronage during the summer, the snack bar in Bennington Plaza will be open from 5:30 a.m. until 5 p.m. Mondays through Fridays, and from 7:30 a.m. until 3 p.m. Saturdays.

For the month of July, a free ice cream is given to anyone buying a "Mardi Gras," a "Big Bird" or a roast beef sandwich in any of the snackbars.

**BEAT THE HEAT!**  
Cooling Bill Too High? Sun Ruining Your Upholstery or Carpeting?

**WINDOW TINTING**  
can save You Money on Your cooling Bill, Prolong the Life of Your upholstery & Add to the Beauty of Your Car or Building.

**FREE ESTIMATES!**


SO DON'T SWEAT IT!!



Call **E&E ENTERPRISE**  
446-7332

**CENTRAL PACIFIC MORTGAGE**

An approved FHA-VA Mortgage Banking Institution



Commercial • Construction • Conventional  
Mobile Homes • Refinancing

"Personalized Service"

441 La Mancha Ridgecrest  
446-3144, Pager/375-0571

DODGE TRUCKS • OLDSMOBILE • GMC TRUCKS • VOLKSWAGEN • HONDA • PONTIAC • NISSAN • CADILLAC • DODGE CARS • OLDSMOBILE • HONDA

**MEM MOTOR CARS**  
201 E. Ridgecrest Blvd.  
375-1327

**FRIDAY & SATURDAY BLOWOUT! ONLY!**

**4-HONDA ACCORD 3 DR. DX Hatchbacks**  
To Choose From:  
No. 1299 No. 1234 No. 1270 No. 1316  
REG. PRICE \$11,963<sup>00</sup>  
**Now! \$10,997<sup>00</sup>**

**1-HONDA ACCORD 3 DR. LX1**  
No. 1358  
REG. PRICE \$14,099<sup>00</sup>  
**Now! \$13,099<sup>00</sup>**

**1 Only - NISSAN 200 SX SE V6**  
No. 1051. Reg. Price \$14,834.00  
**Now! \$13,804<sup>00</sup>**

**1 - NISSAN KING CAB P/U SE, V6**  
No. 1019. Reg. Price \$15,299.00  
**Now! \$14,298<sup>00</sup>**

**1-NISSAN Reg. Bed P/U, Loaded**  
No. 1223. Reg. Price \$10,805.00  
**Now! \$9,803<sup>00</sup>**

**FINANCING AVAILABLE THRU:**  
• NWC Credit Union • GMAC • Nissan  
• Searles Lake Credit Union • Banks • Kern's Schools C.U.

ASK ABOUT OUR SPECIAL LEASE PROGRAMS

DODGE TRUCKS • OLDSMOBILE • GMC TRUCKS • VOLKSWAGEN • HONDA • PONTIAC • NISSAN • CADILLAC • DODGE CARS • GMC TRUCKS • VOLKSWAGEN

Annual Ice Cream Social  
scheduled Tuesday—P-4

NWC's Galley really  
cooking with style—P-7

**NWC Rocketeer**

Naval Weapons Center, China Lake, California 93555-6001 Vol. LXII, No. 28/July 17, 1987

**Code 38 effort aimed at meeting fleet need**

Lately there has been increased emphasis on providing munitions for the fleet that incorporate reduced hazard sensitivity while retaining operational performance requirements. The label applied to these efforts is Insensitive Munitions (IM).

The Research Department (Code 38) has long been involved with hazards research and development and associated technologies. Since 1975, members of the department have been involved in the prevention of detonation and the reduction of other hazards associated with DOD high energy propulsion systems.

Similarly, theoretical calculations of detonation velocity and pressure are performed on candidates for explosives. This is an important part of the development process because the propellants and explosives must meet performance as well as insensitivity requirements.

When a new ingredient has been determined to provide sufficient

performance, researchers from the Chemistry Division (Code 385) attempt to synthesize it. Several classes of new energetic solid ingredients are being investigated by Arnold Nielsen, Rich Hollins, Bill Norris, Bill Wilson, Steve Christian, Juanita Morton and John Fischer.

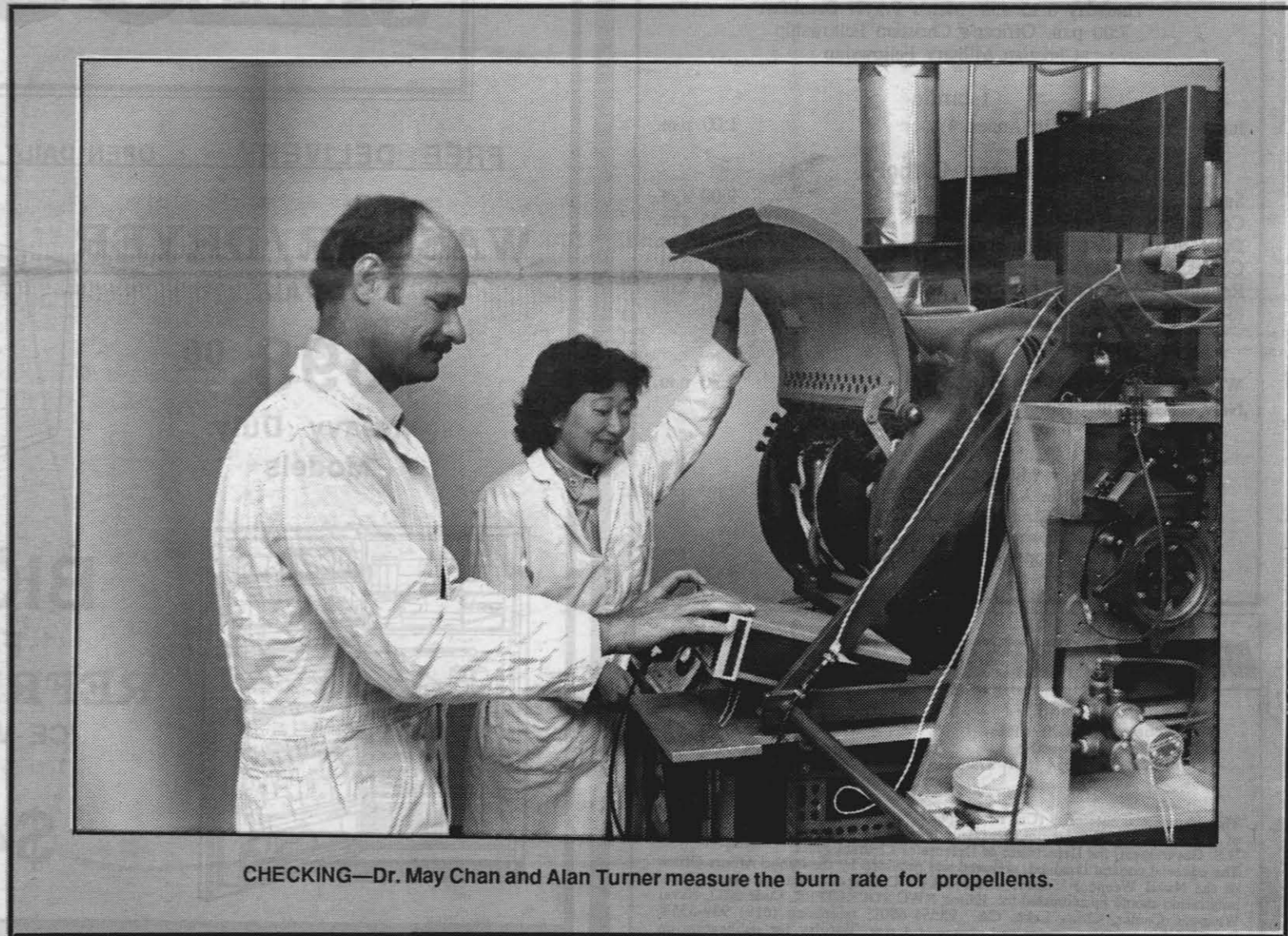
New energetic binders are being synthesized and characterized by

Geoff Lindsay, Mustafa Talukder, John Fischer, Robin Nissan, Mel Nadler and Mike Hasting.

Once a new ingredient has been synthesized, it must be incorporated into a propellant or explosive. Those candidate formulations are then subjected to hazard testing. May Chan, Russ Reed, Alan Turner and Jo Covino are involved in this formulation research.

Promising materials are transitioned to the Ordnance Systems Department for further development, scale-up and larger scale hazards testing.

Small scale hazards testing is done by members of the Combustion/Detonation Research Branch (Code 3891) headed by Herb Richter and the Warhead Dynamics (Continued on Page 10)



CHECKING—Dr. May Chan and Alan Turner measure the burn rate for propellants.

**Sailors learn new skills with ABO program**

With four days of intensive training, eight Naval Weapons Center sailors became qualified as Aviator Breathing Oxygen analysts. Mary Beth Palmer from the Naval Air Engineering Center (NAEC) at Lakehurst, New Jersey, conducted the training. During most of the four days the

sailors were learning about the ABO program, what the role of personnel at NAEC was and how to conduct an analysis of oxygen being used by aviators.

Palmer noted there are 55 sites throughout the world with ABO programs, all of them under the supervi-

sion of NAEC. The sites are monitored through quarterly checks of analysis performed on oxygen received and tested. The ABO program is part of the training aircrew survival equipmentmen (PRs) receive in their school. When conducted on-site, as was the case here last week, it

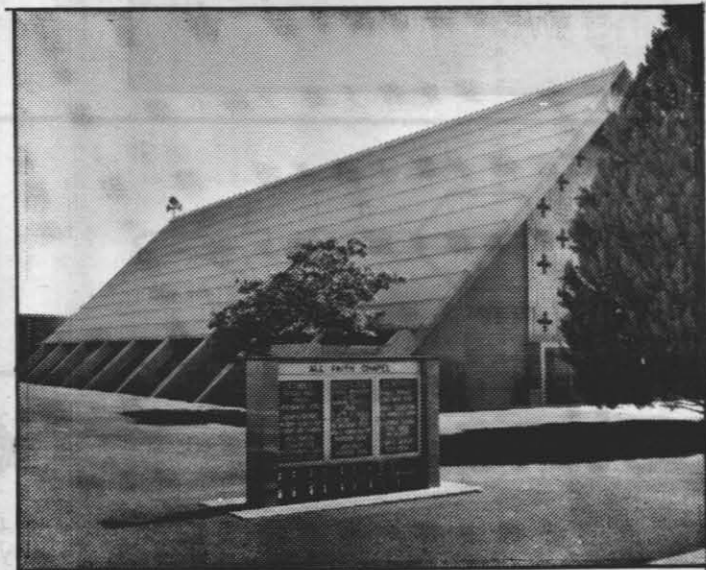
is done at no cost to the installation. NAEC provides the trainer and training materials. All NWC had to provide was up to 10 sailors in need of this skill and the facility.

Ruben Gomez, who heads the Fuel Farm Branch of the Supply Department's Aviation Supply Division,

had only one qualified ABO operator until the end of this course, conducted at the Liquid Oxygen (LOX) Facility.

After three and a half days of learning about possible contaminants of LOX, and doing analysis of readings from the oxygen analyzer, the stu-

(Continued on Page 6)



## 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. Beede, LT, CHC, USNR  
 Hearing Impaired Equipment, Nursery Available  
 Phone NWC ext. 3506, 2773

## Security refresher classes set

All military and civilian personnel at China Lake who hold any sort of security clearance are required to attend a security refresher briefing at least once a year. Anyone who has not attended such a brief held by the Safety and Security Department during calendar year 1987 can meet this requirement by attending any of a series of briefings scheduled next week at the Center theater.

Briefings will be held from 8 to 9 and from 9:30 to 10:30 a.m. and from 2 to 3 p.m. on the following days: July

21, 22, and 23.

It is the policy of this Command to ensure that all personnel are aware of

the hostile threat and know their individual responsibilities in protecting classified information.

## Chapel presents seminar

Anyone who is interested in "Communication and Conflict Resolution," a six-week marriage seminar offered by the Chaplains' Office, can still join. The seminar began last Sunday and is held at Chapel Annex 4 at Blandy Avenue and Lauritsen Road.

A personality analysis, discussion of communication skills and methods of settling conflicts are included in the seminar.

More information can be obtained by telephoning either NWC ext. 5566 or 2873.

## 1987 WALL-TO-WALL

# SELLOUT

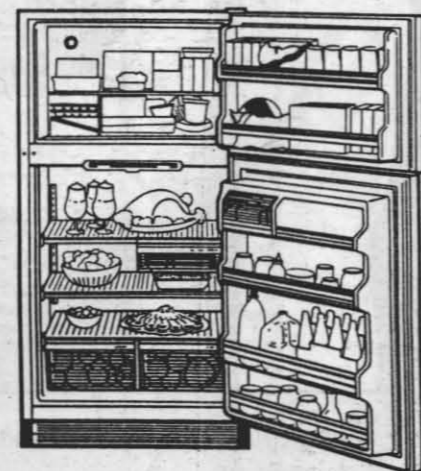
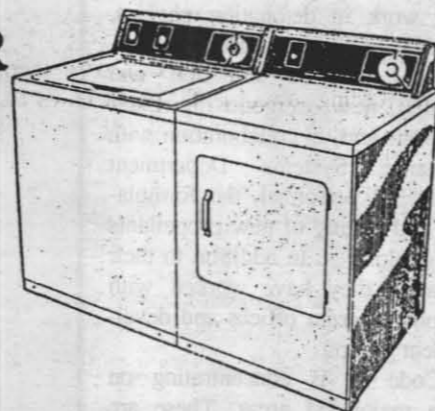
FREE DELIVERY OPEN DAILY 10 - 8 SAT 10 - 9

## WASHER/DRYER

PAIR

**\$698.00**

Heavy Duty Models



## BIG 17 CFT FROST FREE REFRIGERATOR ICE MAKER READY

**\$498.00**

225 E Ridgcrest Blvd  
 Open 7 Days



**LOWEN'S**  
 "The Worlds Finest in Sight and Sound"  
 Color TV - Stereo - Organs - Pianos

375-1361

### 13 General Services

**NEW TO INDIAN WELLS VALLEY**, mobile music services. C&C Productions will provide music services for any occasion. Dances, parties, wedding receptions, etc. Call Darren at 377-4304 or 377-4961. R-13-7/24-2fnc

"GUARANTEED RESULTS" when you advertise with the Rocketeer Advertising Dept. 375-8808. R-13-8/7-4fnc

**M&B MAINTENANCE.** Call us for your maintenance needs. 30 years experience. Call 375-2519 or 375-2633. R-13-7/31

**PROFESSIONAL LAWN CARE** at affordable prices! Weekly or 1 time service. Call the Yard Doctor, 375-4156. R-13-7/31

### 21 Help Wanted

WE NEED A FEW good people to replace a few who weren't. Direct Selling. 375-4572. R-21-7/17-1fnc

### 34 Miscellaneous

RCA FLOOR MODEL color TV, \$150. Ask for Kevin, 375-9529. GR-34-8/7-4fnc

COMPUTER - portable, Corona 640K, 20 Meg Seagate hard disc, DDS basic, \$1,200. 375-9341. GR-34-8/7-4fnc

TRACTOR: Ford diesel series 4000, four cylinder with skip loader and tined scraper, \$5,500, 375-9270. GR-34-8/7-4fnc

TRAILER FOR SALE, 14' flatbed 5th wheel. Tandem axle, removable side boards, new tires, hitch included, \$3,500. 446-2487. GR-34-8/7-4fnc

WESTERN SADDLE, 15 1/2" seat, oxblood with silver. Excellent cond., used only twice, \$250, 375-2488. GR-34-8/7-4fnc

APPLE II # , 64K, 2 disk drives, monitor, 80 column card, screenwriter, flopdisk, visicalc, modem, appletworks, database, graphics, manuals, \$875. 446-5305. GR-34-8/7-4fnc

WANT TO SELL that old bike behind the garage? Let the Rocketeer Ad Dept. do the selling! Find out about our "Guaranteed Results" Program. Call 375-8808. R-34-7/24-2fnc

WE BUY AND SELL  
 • Silver Coins • Gold Coins  
 • Silver Bags • Bullion  
 • Krands, etc.  
 Collections and estates bought and appraised. Serving the IWV since 1977. Bodie Coin Co. 446-4600. R-34-tfc

### 63 Business Properties for Rent

FOR LEASE soon new commercial building, 2100 sq. ft. "Downtown." Call 375-2934 or 375-2045. GR-63-8/7-4fnc

WHAT TYPE OF COMMERCIAL RENTAL DO YOU NEED? Professional offices? Computer facility? Assembly area? Light Mfg.? All available now! 3 phase electric power, M2 zoning, 45 cents sq. ft. 375-6882. R-63-8/7-4fnc

**JOYCE'S ANTIQUES** in Inyokern has a wide selection of antique jewelry, pottery, such as Bauer, Hull, McCoy, Roseville, Redwing & Welier. Also round oak tables; secretaries, china cupboards, sterling flatware, serving pieces, salt & pepper; fine china, lamps, iron & brass beds, wagon wheels, etc. Layaways welcome. 377-5415 or 375-4028. R-34-tfc

**ROOM FOR RENT**  
 HOMEY TOUCH - affordable rate. Nicely furnished room, bath, color TV, refrigerator, maid service. From \$97.50 weekly, \$25 daily, near base. El Rancho Motel, 1445 W. Inyokern Rd., 446-6209. R-66-8/7-4fnc

**CONDOS FOR RENT**  
 3 BDRM., 2 1/2 BA, in Green Acres Townhome. Pool & spa, \$650/mo. plus \$700 dep. 446-3808. R-69-8/7-4fnc

### 37 Yard Sale

YARD SALE - SATURDAY 7/18, 200 Coral Sea Circle, 9 a.m. - 3 p.m. Horse tack, glass/brass dining room set, camera equipment, craft supplies, games, books, misc. R-37-7/17-1fnc

### 42a Homes for Sale

OLANCHA  
 Neat, clean, 1 1/2 bath, 3 bedroom home on nearly 1 acre. Completely fenced & cross fenced, 10 ton hay storage, 2 1/2 car garage, sep. studio. \$72,500, assum. loan, Owens Valley Realty, 873-7109. R-42a-8/7-4fnc

**61 Apartment for Rent, Furnished**  
 1 BDRM. APTS., furn., \$400, utilities paid, no pets. 124 E. Dolphin, 375-9124 & 375-2512. GR-61-8/7-4fnc

**62 Apartment for Rent, Unfurn.**  
 2 BDRM., 1 BDRM., range, refrigerator, carpet, drapes, evap. cooling, exceptionally clean, water, trash, cable T.V. pd., no pets, \$350. Agent 375-8577. R-62-8/7-4fnc

3 BDRM., 1 BA. DUPLEX, dishwasher & washer/dryer hook-ups, water paid. Fenced yard, near school, \$475/mo., if paid by the 1st. 375-3383. R-62-8/7-4fnc

CONVENIENT TO BASE: like new 2 bdrm., dishwasher, range, refrigerator, laundry, no pets. Water/trash/cable paid, \$425/mo. Allen Realty 446-4810. R-62-7/17-1fnc

NICE 1 OR 2 BDRM. unfurnished apt. No pets, carpet, drapes, stove & refrigerator. Need 1st, last & sec. dep. 375-2265. GR-62-8/7-4fnc

### 69 Motorhomes & Campers

1974 HARVEST MINE MOTORHOME, \$5,000. 5 Motorhome rims, \$35 each. 375-3136, call after 5 p.m. GR-73-8/7-4fnc

**81 Automotive**  
 IS YOUR CAR GOING TO BREAK DOWN? Sooner or later all cars do. When it happens are you covered? Will it be \$200 or \$4000 to repair it? If you're driving around without a service contract call me, we have service contracts starting as low as \$195. To find out if you qualify call Michael Huff at Desert Motors, 619-446-3521. B-81-7/3-tfc

**73 Boats**  
 1986 BAYLINE 1400, excellent condition, many extras, \$4,875. 375-3104. GR-71-8/7-4fnc

17' MONARK FIBERGLASS FISHING BOAT, 85 hp., Suzuki outboard with power trim, good trailer w/accessories. \$2,000. Call 446-5170 after 5 p.m. GR-71-8/7-4fnc

1978 VIP 18' V-HULL BOAT, walk thru bow, 228 hp, 1/0, new upholstery, towing cover, extra prop, canopy, seats 9. \$6,800 or best offer, 375-2889. See at NWC lot. GR-71-8/7-4fnc

"GUARANTEED RESULTS" when you run your classified ad with the Rocketeer Advertising Dept. Come by our office at 206 Balsam or Call 375-8808. R-71-8/7-4fnc

**72 Motorcycles**  
 1986 SUZUKI MOPED, 500 mi., \$350, 375-4727. R-72-8/7-4fnc

1986 YAMAHA VERAGO 700, bought new Feb. 87, paid \$3,600, less than 2,000 miles. High Blue Book \$3,215, sell for \$3,000 or trade for Goldwing/Aspacade of equal value. Contact Commander John Rhodes, 446-7196. R-72-7/17-1fnc

1981 HONDA MOTORCYCLE CM 400, runs great but needs battery, \$550. Call Frank, 446-6145. R-72-8/7-4fnc

HARLEY 80 C.I. FXE. Just rebuilt with lots of chrome, low miles, 5 gal. tanks, new tires, \$3,600. 375-0263. GR-72-8/7-4fnc

### 78 Motorhomes & Campers

1983 BMW R80ST, Must sell. Excellent bike. \$2,500 or best offer. 375-5192. R-72-8/7-4fnc

1977 DODGE POWER WAGON, 4X, automatic transmission, P/B, P/S, air, AM/FM radio, sliding rear window, \$500 below low Blue Book. 375-8728. GR-81-8/7-4fnc

1980 SEVILLE ELEGANT, excellent condition, all options, moon roof, This one you MUST SEE! 446-7436. GR-81-8/7-4fnc

TH 400 TRANS., \$100 or best offer, 60,000 miles, 375-6881 Ray, afre 3:30 p.m. GR-81-8/7-4fnc

1975 YAMAHA RD 350, original low miles, good shape. Includes new tires, battery, head light, jirrors, \$450 or make offer. 375-6013 or 375-3327. GR-81-8/7-4fnc

76 OLDSMOBILE REGENCY, 79,900 miles. Must see to believe it. \$2,350, phone 375-3427. GR-81-8/7-4fnc

1982 OLDS CUTLASS SUPREME Bgrhm, white w/maroon interior. Super clean, 2 yr. warranty, \$5,500. 375-4173 or 375-7914, Dave. R-81-tfc

LOOKING FOR CUSTOM WHEELS and tires on your fine ride? Call Curt at City Alignment & Tire for a package price. 377-4223. R-81-7/31

DISCOUNT TRANSMISSIONS  
 We'll build your transmission for \$200 parts & labor included, you install. We'll do the whole job on most American cars for \$350, parts, labor & installation. 1109 W. Graaf, 446-2159. B-81-tfc

1963 TRIUMPH TR4 convertible, classy and fun to drive. A steal at \$2,500. Call 375-8209. GR-81-8/7-4fnc

**82 Trucks & Vans**  
 1969 INTERNATIONAL WELDING TRUCK with Lincoln 200 welder. Call 375-3145. GR-82-8/7-4fnc

**The Entertainer Video**

Come In & Say HI To Our Friendly & Efficient Summer Staff! Our Best Beta Selection Can Be Now Be Found At:

<p><b>ENTERTAINER VIDEO</b>                  414 W. Ridgcrest Blvd                  375-7314</p>	<p><b>ENTERTAINER VIDEO II</b>                  235 N. China Lake Blvd                  375-3255</p>
--	--

ALIGNMENT • CUSTOM WHEELS

## TIRE MAN

517 INYOKERN ROAD PHONE 446-3546

BRAKES • BALANCING • SHOCKS

**TRUCK TIRES**

700 X 15	\$49.88	6 ply
750 X 16	\$64.88	8 ply
800 X 16.5	\$62.88	8 ply
875 X 16.5	\$65.88	8 ply
950 X 16.5	\$74.88	8 ply

**BRIDGESTONE** **GOODRICH** **MICHELIN**

**FIBERGLASS BELTED**

A7813	\$26.88
B7813	\$29.88
E7814	\$34.88
F7814	\$37.88
G7814	\$38.88
G7815	\$39.88
H7815	\$41.88
L7815	\$44.88

**STEEL RADIALS**

AR7813	\$45.88
BR7813	\$47.88
ER7814	\$49.88
FR7814	\$51.88
GR7814	\$52.88
GR7815	\$53.88
HR7815	\$57.88
LR7815	\$59.88

**Car Care Credit**  
 Apply today for quick and easy credit on service and tires with the new Remington Credit Card. from Remington!

**When Shopping For Tires Get The Complete "Out The Door Price" CALL US FOR ONE**

**FRONT OR REAR BRAKES \$49.88**  
 MOST CARS Metal Pads Slightly Higher

**BIG DON... IS DOIN' IT... AGAIN... LOW PRICES ON BRAND NAME TIRES**

**I'M GOING CRAZY JUST TRYIN' TO GIVE AWAY SAVING ON TIRES!**

Hours:  
 Mon.-Fri. 8:30-6:00  
 Saturday 8:30-3:00

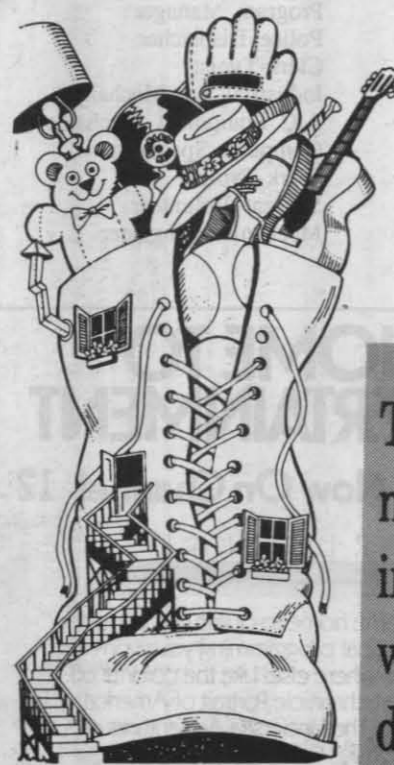
## NWC Rocketeer

Published by Chalfant Press  
 450 East Line Street  
 Bishop, CA 93514 (619) 873-3535

This commercial enterprise (CE) newspaper is an authorized publication. Contents of NWC ROCKETEER are not necessarily the official views of, or endorsed by, the U.S. Government, the Department of Defense or Chalfant Press. The editorial content is edited, prepared and provided by the Public Affairs Office of the Naval Weapons Center, China Lake. Correspondence and material for publication should be addressed to: Editor, NWC ROCKETEER, Code 0033, Naval Weapons Center, China Lake, CA 93555-6001; telephone (619) 939-3354. Deadline for receiving stories and photos is 4 p.m. Tuesday for publication on Friday of that week.  
 NWC Commander -- CAPT. JOHN BURT Editor -- MICKEY STRANG  
 Technical Director -- GERALD SCHIEFER Associate Editor -- STEVE BOSTER  
 Public Affairs Officer -- DENNY KLINE Editorial Assistant -- PEGGY SHOAP  
 Staff Photographer -- PII BOB REYNOLDS

Published by Chalfant Press, a private firm in no way connected with the DOD or U.S. Navy under exclusive written contract with the NAVWPNCEN. This commercial enterprise newspaper is an authorized publication for members of the military services. Contents of the Rocketeer are not necessarily the official views of, or endorsed by the U.S. Government, the Department of Defense, or NAVWPNCEN. The appearance of advertising in this publication, including inserts and supplements, does not constitute endorsement by the Department of Defense or of the products or services advertised. Everything advertised in this publication shall be made available for purchase, use, or patronage without regard to race, color, religion, sex, national origin, age, marital status, physical handicap, political affiliation, or any other non-merit factor of the purchaser, user, or patron. A confirmed violation or rejection of this policy of equal opportunities by an advertiser will result in the refusal to print advertising from that source. Editorial content is edited, prepared, and provided by the Public Affairs Office of NAVWPNCEN.

**RHYME  
or REASON?\***



There was an old man who lived in a shoe, his house was so loaded, he didn't know what to do. So he bought a Classified ad and now his house is uncluttered and he's got cash to spare!\*

**"Guaranteed Results"**  
place your  
**CLASSIFIED**  
**ITEMS FOR SALE**  
in  
**THE ROCKETEER**  
375-8808

## Cal-State Chico announces class schedules for fall

Cal-State Chico is offering the following classes this fall for the Cal-State Chico Computer Science Program (bachelor's and master's degrees). To enroll in these classes, submit an on-Center Training Request (NAVWPCNEN 12410/73) via department channels to Code 094. Registration will be held in class at the first class meeting. Deadline for enrolling is 10 calendar days before the starting date of the class. Although training requests will be accepted after the deadline, that date will be used to determine whether the class will be held.

**CSCI 151: ALGORITHMS AND DATA STRUCTURES (3 units)**  
September 1 — December 18; Tuesdays and Thursdays; 1100-1215 (via satellite); Training Center. By Professor Melody Duncan, CSUC.

Prerequisite: Pascal Programming.  
Scope: The representation, application and processing of a wide range of data structures including lists, trees, and graphs. The analysis of algorithms. Recursive and iterative techniques for problem solving.  
Text: "Data Structures Using Pascal," Lenenbaum and Augenstein. Second edition.  
Note: This is a required course for all BSCS options and a required foundation course for the MSCS program.

**CSCI 322: ARTIFICIAL INTELLIGENCE (3 units)**  
September 1 — December 18; Tuesdays and Thursdays; 0800-0915 (via satellite); Training Center. By Professor Paul Luker, CSUC.

Prerequisite: Graduate standing.  
Scope: The course will cover foundations of artificial intelligence (AI); the basic techniques of AI; AI programming; and some applications of AI. By the end of the course the student should be conversant with the basic AI techniques and be able to program them.  
Text: "Introduction To Artificial Intelligence," Eugene Chamiak and Drew McDermott. Addison-Wesley, 1986.

**CSCI 397C-1: PERFORMANCE MEASUREMENT AND EVALUATION OF COMPUTER SYSTEMS (3 units)**  
September 1 — December 18; Tuesdays and Thursdays; 1400-1515 (via satellite); Training Center. By Professor Tom Voyda, CSUC.

Prerequisite: The student should have a mature understanding of operating systems, some exposure to system design and some mathematical background in probability. The prerequisites are flexible. If you have any doubts, please contact the instructor for further information at (916) 895-4022.  
Scope: Upon completion of this course, the student should have a thorough understanding of what parameters, system characteristics and measures are used to determine system performance; how to measure and monitor these important parameters and how these parameters contribute to determining the performance of a computer system. The pragmatic orientation of the course should allow the student to use the knowledge gained in this class to actually measure and improve various performance characteristics of actual programs and systems, or at least to identify the major bottlenecks responsible for the current performance (or lack thereof). Since much of this type of work involves "general problem solving skills," the methods studied during this course should enhance the student's skill to attack problems in other fields of endeavor. After completing the course, the students will have a useful "toolkit" of programs and methodologies for doing performance analysis in virtually any environment.  
Text: "Measurement And Tuning Of Computer Systems," D. Ferrari, et al. Prentice-Hall, 1983.

Note: Course participants are encouraged to enroll early. The selection of specific topics and level of sophistication will be tailored to the backgrounds of the class participants. A survey will be provided to students upon receipt of their NAVWPCNEN 12410/73, which will allow them to provide input.

**CSCI 397C-2: PRACTICUM ON SYSTEM FEASIBILITY, EVALUATION COST, AND SYSTEM SELECTION (3 units)**  
September 19-20, October 17-18 and November 14-15; Saturdays and Sundays; 0800-1600; Training Center. By Professor Arnovick, CSUC.

Prerequisite: Graduate status or undergraduate senior within 6 units of graduation.  
Scope: A workshop/practicum on the problems and best alternative solutions for the selection and evaluation of computer systems. A life cycle understanding is presented of the various system feasibility approaches, the methods associated with hardware/software selections, cost benefit analysis, and evaluation schemes.  
Text: None.

**BEHSCI 312: SOCIAL PSYCHOLOGY (5 quarter units)**  
September 23 — November 25; Wednesdays; 1610-2110; Training Center. By Professor Travis, CSB.

Prerequisite: One course in psychology or sociology is recommended but not required.  
Scope: Group affiliation, group standards, social perception, reference groups, and other social influences on the behavior of individuals. Topics include: the self and society, attitudes and an attitude change, social perception, attraction and love, aggression and violence, and group dynamics.  
Note: This course satisfies General Education Group VII for CSB students.

### GENERAL COMMENTS

1. Textbooks are available at local bookstores.
2. Job-related courses other than those listed above must be approved on an off-Center Training Request (DD 1556) before registration if NWC is expected to pay for the training. For more information, contact Cecil Webb, NWC ext. 2648.



**NO MONEY  
DOWN!!**

Assume my lease on 1984 Mercedes Benz 300-D Turbo, auto., air, 4 dr., sunroof, alloy wheels, new Michelin tires, new battery, 47,600 original miles, just had 45,000 factory service. Original owner. Factory service. Loaded and beautiful. 21 Months left on lease. Must qualify. Can also be bought for \$23,000.

Call Ski at 375-8808

## New manager for district announced

John W. Powers, local Social Security representative, has announced that Roger Kipp has been appointed as the district manager of the Lancaster Social Security Office. In his new capacity Kipp will also be in charge of the Social Security offices in Bishop and Ridgecrest.

"We would like to emphasize," Kipp said, "that most Social Security business can be handled by telephone. That's especially important in a service area as large as ours. The telephone number to call is (805) 948-5903. Following a call, an appointment can be made as necessary."

The local Social Security office, 509 W. Ward, Suite A, Ridgecrest, Calif., will still handle phone calls, 446-2051, from 1 until 4:30 p.m. and walk-ins from 9 a.m. until 1 p.m. Mondays through Fridays.



**The  
Skipper  
Sez...**

### QUESTION

Thank you, Captain Burt. The question I have concerns the Savings Bond program. We are encouraged to join as it benefits the government and the employee. However, there seems to be some problem in getting those things mailed out from San Diego. Last one I received was for the first period in February. I have called down there a couple of times and their excuse was that they didn't have any envelopes but somehow that doesn't ring true to me. I wondered if you might look into this because several other people I have talked to on-station said they have had theirs delayed also. Be advised that the date on these are correct, they are just awfully slow in mailing them. Thank you, Captain.

### ANSWER

Thanks for your inquiry about the delay in getting your savings bonds. The Navy Finance Center in San Diego is the issuing agency for savings bond enrollees of the Naval Weapons Center. They also issue bonds for enrollees of ten other naval activities in Southern California.

We followed up with the Navy Finance Center to find out just when our enrollees could expect to receive their savings bonds. The normal time frame is three weeks after a payday. Their procedures require them to reconcile and file reports of all bonds issued for all of the activities they serve before the bonds can be mailed. By the way, we offered to provide envelopes if they run out again! Hope this response gives you a better idea of when you can expect to receive your bonds.

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.

## Geothermal on line

At 3:21 p.m. Wednesday the Coso Geothermal Plant went on-line and began feeding power into the public utility electric grid. The plant went on initially at 5 megawatts and will come up to 30 MW across the next few days.

By press time for the Rocketeer, the plant continued to be on-line producing electricity, opening a new era of energy independence for the Center.

A full description will appear in next week's Rocketeer.

## Cheryl Dunn enjoys job variety in Police Division

"I wanted to try something different," says Cheryl Dunn about her decision to accept a job with the China Lake police three years ago. "I'd been a PBX administrative clerk and then an insurance clerk with the Ridgecrest Community Hospital for 10 years, and I thought it was time to move to another job with more potential and more variety."

Variety she certainly has. Currently one of her primary jobs is to compile statistics for both the CLPD and the Department of Justice, which requires a monthly record of arrests and crime reports for an assortment of crimes. She also distributes the police reports daily to Command and other appropriate offices. Ms. Dunn makes up the packets to be used by the District Attorney's office for driving while under the influence of alcohol, and puts information into the computer for the Criminal Records Information System.

## AIAA dinner meeting

Dr. Allen E. Fuhs will lecture on radar cross section at the annual dinner meeting of the local chapter of the American Institute of Aeronautics and Astronautics to be held at the Commissioned Officers' Mess on Thursday, July 30.

Dr. Fuhs is immediate national past president of the AIAA. His talk will be of particular interest to those not engaged in working with radar cross section. All interested persons are invited to attend the dinner, which starts with a social hour at 6 p.m. and dinner will be served at 6:30.

Tickets can be purchased in advance for \$11 per person or at the door for \$12 per person. Those selling tickets in advance include John Faron in Ridgecrest, 446-7941; in Michelson Laboratory, Doug Blanchard, NWC ext. 2627, and Dale Gates, NWC ext. 3493; on the ranges, Dennis Sorges, NWC ext. 6401, and John Rourke, NWC ext. 3383; and at CLPL, Alan Yehle, NWC ext. 7249, and Tony Walls, NWC ext. 7395.



**WORK RECOGNIZED**—Carl Schaniel, Carolyn Shoals and Mark Kolstoe are joined by Capt. John Burt, who has just presented them with the Commander's Award for Mission Support for their efforts to establish the Center's workload database.

## Three get Cmdrs.' Award

Carl Schaniel, Carolyn Shoals, and Mark Kolstoe received the Commander's Award for Mission Support at Monday morning's Commander's meeting for their exceptional efforts in developing and implementing the Center's workload planning base.

Capt. John Burt noted that "this work will provide me with a much clearer view of what's going on than I've had."

The Skipper said management payroll and not having enough people available to handle all requested work made prioritizing essential. For this, planning workload is necessary.

A steering committee of department heads under the direction of Bill Porter, Laboratory Director, studied

the problem between December and early April. At that time a special committee chaired by Carl Schaniel was asked to devote six weeks of intensive effort to developing and implementing the workload planning data base.

Committee members included Mrs. Shoals, Brenda Burnett (who will be responsible for implementation), Kolstoe, Dr. Dick Kistler, Lorraine Abernathy and Linda Graham. In addition, staff members from their organizations also assisted in the intensive effort.

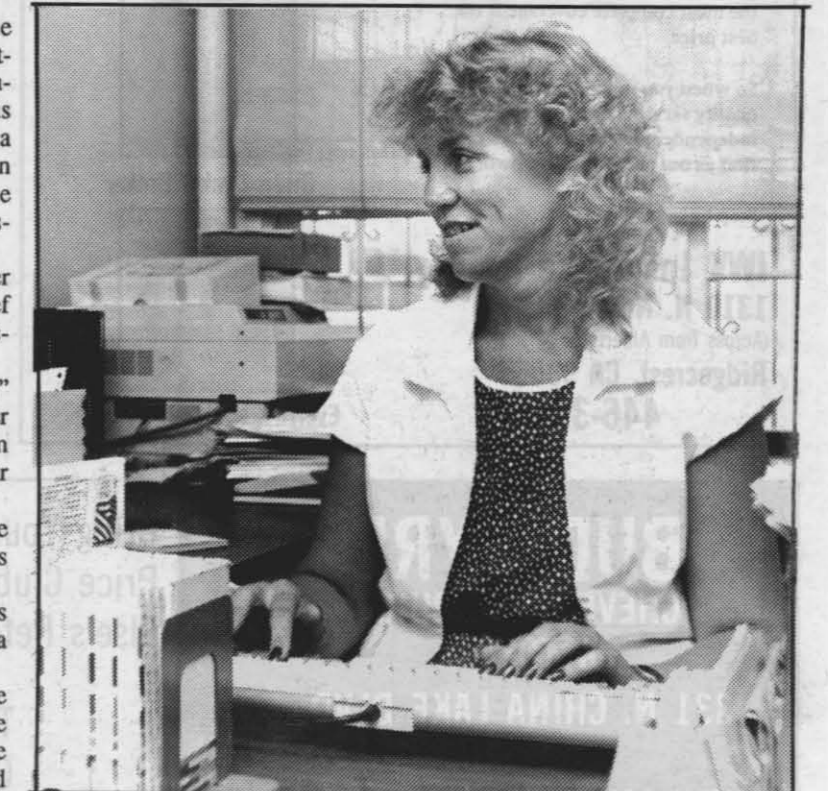
The three singled out for Commander's Awards were recognized for outstanding individual efforts.

The citation for Mrs. Shoals noted

"For extraordinary efforts and outstanding accomplishment in developing an intermediate mainframe workload data base from the existing Center planning system, and assisting in its transition to a microcomputer data base accessible by the Center's senior managers."

Kolstoe was recognized "For exceptional achievement in developing a microcomputer version of a mainframe workload data base providing access to critical planning data to each senior Center manager."

Schaniel, who nominated the other two, was nominated himself by Porter for his exceptional vision and leadership in chairing the group effort.



**BUSY**—Cheryl Dunn likes the variety of tasks she has in her job with the China Lake police.



# China Lake Police Reports

Officers made a traffic stop at 11:17 p.m. on July 8 at the Mobile Station and China Lake Boulevard. The driver was found to be driving under the influence of alcohol; was arrested, taken to the police station and held for 5 hours before being cited and released.

C. Martin Company reported that unknown persons removed five one-horsepower motors from the C. Martin compound over a three-day period. The value of the motors makes this a grand theft.

A false fire alarm was turned in on a fire alarm box on Richmond Road at 9:52 a.m. July 9.

On the road leading to Aircraft Survivability a Navy truck was involved in a one-vehicle rollover accident last Friday. The driver was transported by Navy ambulance to Ridgecrest Community Hospital for treatment of injuries. The truck received major damage.

Personnel at the anechoic chamber reported that an oscilloscope and a mobile scope were removed from the building. Cost of these items is enough to make this a grand theft.

At 10:19 p.m., Friday, a bicycle was found on the west side of the Center library. The bicycle can be reclaimed by its owner at the China Lake police station.

In the parking lot of Hangar 2 a new Ford pickup backed into a van.

Police joined with China Lake Fire Division ambulance personnel in responding to a call at the the Chief Petty Officers' Mess on Saturday when a patron experienced trouble breathing. The patron was transported to the Ridgecrest Community Hospital.



## Ice cream social set

Highlighting the summer season is the 36th annual ice cream social sponsored by the Protestant Women of the All Faith Chapel, to be held Tuesday, July 21, from 6 to 8 p.m. on the lawn of the All Faith Chapel.

Homemade pies, cakes and ice cream are the real crowd-pleasers, but there'll also be Jim McLane and the Dixieland Band to provide background music.

The ever-popular pick-a-pocket lady will be present to entertain and delight youngsters. In addition, washable tattoos will be available and there'll also be fishing for prizes. And what would the evening be without a clown plus helium balloons?

Tickets for the goodies and entertainment are \$3 for adults and \$1.25 for children aged 11 and under. They can be purchased at the All Faith Chapel Office during the week, after worship services on Sundays and at the door. Activity tickets for the balloons, tattoos, etc., will be 25 cents each.

ALL SET—Cherrle Belding and E.T. watch as the Belding boys, Jonathan and Phillip, get an early taste of the luscious ice cream available at the All Faith Chapel's Ice Cream Social on Tuesday evening.

## Heart fitness talk

All China Lake personnel concerned about maintaining or improving health are invited to attend a talk on heart fitness through diet and aerobic exercise at 9:30 a.m. on Friday, July 31, at the Center theater.

LCdr. R. G. Skaggs, head of the Aviation Physiology Training Department at Lemoore Naval Air Station, will discuss heart fitness and will answer questions from the audience.

LCdr. Skaggs served as a Hospital Corpsman for seven years. He holds a bachelor's degree in zoology and a master's degree in exercise physiology from Northwestern State University of Louisiana.

Food for the event is donated by the women of the chapel, so the bulk of the proceeds will be sent to mission projects. These include SEND International (a radio ministry in Japan), Wycliffe Bible Translators, Ludhiana Christian Medical College in India, Bakersfield Rescue Mission, Bakersfield Friendship House, Kern County Teen Challenge, The Ridge (a program for developmentally disabled), IWV Association for Retarded Citizens, and the Women's Center-High Desert.

### PSYCHIC

Mrs. Williams has the psychic ability to help you overcome your problems and guide you to love, health, happiness, and success. You have the power to rule your life and achieve inner peace and tranquility. Let her help you prevent frustrations, tragedies, and disappointments. She has the God-given power and she has devoted a lifetime to his work. \$10 reading - \$5 with this ad.

232 Station St.  
Ridgecrest • 375-4845

**T.O.S.S.**  
Total Office Support Services  
1111 Inyokern Rd. Suite G Ridgecrest

Call T.O.S.S. for rapid response, professional Temporary Personnel, Secretarial Services, Typing and Word Processing, Copy Service and Notary Public!

• (619) 446-7702

### CALL YOUR INDEPENDENT INSURANCE AGENT AND COMPARE

You deserve nothing but the best. And that's what you get when you do business with your independent insurance agent.

You get excellent service and the attention your account deserves. All your insurance can be conveniently placed with one agent at one location.

And when it comes to saving you money, we shop around. You get the most complete coverage at the best price.

So when you're looking for top-quality service, look for your independent insurance agent. You'll find us out ahead of the crowd.

Stop by or give us a call.

**IWV Insurance Agency**  
1310 N. Norma St.  
(Across from Albertsons)  
Ridgecrest, CA 93555  
446-3544



Daryl Silberberg - Broker



Ellen LaFortune - Agent



Gwen Dyck - Broker



Evelyn Robertson - Agent

**BUD EYRE**  
CHEVROLET - BUICK & TOYOTA  
331 N. CHINA LAKE BLVD.  
375-4401  
NEW CAR SALES & LEASING

Bring Your FEDCO & Price Club or Anyone Else's Referral Prices



To BUD EYRE & We'll Do Our Very Best to Match, Or Possibly BEAT Them!

**TOYOTA TRUCKS**  
ARE BACK AT  
COST + 2%  
WHILE THEY LAST!!  
GOOD FOR JULY ONLY!

## Recent arrivals and departures

### Non-Appropriated Funds

The following vacancies are not Civil Service positions. These positions are paid for from non-appropriated funds and are administered in accordance with policies established by the Department of Defense. Persons selected for these positions have no Civil Service status and are not eligible for appointment to positions in the Civil Service. Persons interested in applying for these positions should fill out a standard application form (SF-171). Applicants need not be presently employed in a Non-Appropriated Fund Instrumentality (NAFI) position, nor must they be employed at the Naval Weapons Center. The SF-171 should clearly be marked "NAFI" on the top and should have the appropriate announcement number listed in Block 1 on the form. Completed applications can be delivered to Room 100 or to Room 120 in the Personnel Building or can be mailed to: Naval Weapons Center, Personnel Dept. (Code 096), ATTN: NAFI Service Team, China Lake, CA 93555.

No. 22-8730, Recreation Specialist, UA-0188-7, \$18,358 per year, Temporary Part-Time N7E 1 year, Code 22 - The incumbent will be responsible for developing, organizing, budgeting, and implementing a Center-wide Wellness Program (physical fitness program). The incumbent will be responsible for monitoring segments of this program at various sites. Some of the areas covered under this program will be blood pressure monitoring, smoking cessation, nutrition, and exercise. Job Relevant Criteria: This position requires three years of generalized experience and one year of specialized experience in the appropriate field. A four year degree in Physical Education or Recreation may be substituted for the generalized experience. Must possess a current First Aid and CPR Instructor's Certificates. (May be obtained after hire).

### ACCESSIONS

CODE	NAME	TITLE
097	Peoples, Robert C.	Personnel Mgt. Specialist
123	Peterson, Daniel W.	Operations Research Analyst
2413	Marr, Mark D.	Police Officer
25223	Monroe, Judith J.	Clerk-Typist
25228	Cornett, Steven V.	Purchasing Agent
2636	Hu, Te Y.	Civil Engineer
2662	McDonald, Alison M.	Student Trainee
3111	Morgan, Jeffery P.	Mathematician
3142	Williams, Michael J.	Electronics Engineer
3146	Anderson, Maja Lisa C.	Engineering Technician
3264	Vanderah, David	Research Chemist
3337	Krausman, Jeffery D.	Clerk-Typist
3337	Roseman, Ann E.	Clerk-Typist
3431	Eldredge, Judy A.	Clerk-Typist
3431	Holloway, Deanna J.	Clerk-Typist
3436	Pyle, Duane A.	Clerk-Typist
3514	Byrne, Leslie A.	Secretary (Typing)
3526	Lifur, Anthony E.	Electrical Engineer
36214	Hurst, Russell L.	Electronics Engineer
36642	White, Cliff H.	Equality Specialist
39	Hahn, Brooke K.	Clerk-Typist
3921	Cornelius, Chester C.	Engineering Aid
3924	Lambert, Mark A.	Mechanical Engineer
3942	Cox, Natalie A.	Clerk-Typist

### SEPARATIONS

03A3	Oxendine, Marjorie A.	Secretary (Typing)
0803	Rosellini, June C.	Supply Systems Analyst
0851	Ford, Darlene L.	Clerk-Typist
08612	Pierce, Mary I.	Lead Accounting Technician
0942	Alonge, Sam J. Jr.	Program Manager
2413	Day, Jacquelyn L.	Police Dispatcher
252	Parkin, Patti L.	Clerk-Typist
2642	Valdez, Abe B.	Industrial Eq. Mechanic
26422	Hamrick, Ralph T.	A/C Equipment Mechanic
3103	Irvine, Bonita G.	Computer Specialist
3431	Howard Raquel	Clerk-Typist
3433	Davis, Lyndel V.	Student Volunteer
3687	Bowen, Montie J.	Mechanical Engineer

## COME HOME TO GREAT ENTERTAINMENT

Superstation WTBS Now On Channel 12



### ORIGINALS

Come home to quality, blockbuster original programming you won't see anywhere else! Like the colorful 60-part chronicle Portrait of America and The Undersea Adventures of Jacques Cousteau.



### MINI-SERIES

High-powered blockbuster mini-series light up the SuperStation all year! Like the futuristic chiller WAW III, Kenny Rogers in The Gambler II, and the historical drama, Ellis Island.



### VARIETY

Share the laughs with Andy Griffith, Bob Newhart, and Mary Tyler Moore. Why, with blockbuster comedies like these in the lineup, no wonder there's never a dull moment on SuperStation WTBS!

## COME HOME TO TELEVISION



**Desert Cable T.V.**

Call 446-5536

**BUD EYRE'S USED CAR LOT PRESENTS . . .**

**THE Rocketeer Special of the Week**

**SPECIAL!!**

**SPECIAL!!**

**1985 Toyota Le Van** - automatic, A/C, P/S, tilt wheel, cruise control, AM/FM stereo cassette, EXTRA SEATS - EXTRA CLEAN! LIKE NEW!  
VIN. 073883

Come by & check out our other great deals!

**"The Best Little Car Lot in Ridgecrest**  
Corner of Las Flores & China Lake Blvd.

Steve Hartwig	375-4405	Tim Freer	375-4405	Jamie High'am
---------------	----------	-----------	----------	---------------

**Mr. P's Bar & Grill**

—LIVE MUSIC—  
Wayne Paisano & Band  
Fri./Sat. 9:00 p.m. - 2:00 a.m.

Madge Hucek benefit Sun., July 26th, 6 p.m.

Cocktails - 10:00 a.m. - 2:00 a.m.  
Restaurant - Mon.-Fri. 11 a.m. - 10 p.m./Sat. & Sun. 4:30 p.m. - 10 p.m.

Tickets sold at the Exchange Club Only!

**Early Bird Special**  
6 Entrees 4:30 p.m. - 7:00 p.m.  
**\$6.95**  
1661 N. Triangle Dr., Ridgecrest

training will be provided for specialize fiber optics and video systems. To apply, submit current SF171 to John La Marr, Code 145A, NWC ext. 4678.

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 fuz 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 fuzes devices for SPARROW, RAM, and AMRAAM missile systems. Promotion potential: DP-3. To apply, please submit current SF-171 to Bill Vecchione, Code 3333, NWC ext. 1211.

No. 33-012, Electronics Engineer, DP-855-2/3, (three vacancies), Code 3337 - These positions are located in the Short Range Missile Fuz Branch, which is involved in the design and development of proximity fuzes and test equipment principally using active optical technology. This branch is hardware oriented and tasks routinely include work with digital and analog circuitry development, optical sub-systems 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 and advanced fuzing studies of target detection devices for SIDEWINDER, RAM and SIDEARM. Promotion potential: DP-3. To apply, send a current SF-171 to Jerry Mumford, Code 33306, NWC ext. 2856.

No. 33-016, Interdisciplinary (Electrical/Electronics Engineer), DP-850/855-1/2, Code 3336 - This position is located in the Phoenix Fuz 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: DP-3. To apply, send current SF-171 to Larry Morrison, Code 3336, NWC ext. 1146.

No. 33-014, Electronics Engineer, DP-855-2/3, Code 3384 - This position is located in the Weapons Survivability Laboratory (WSL) of the Survivability and Lethality Division, Fuzes and Sensors Department. The WSL conducts tests of aircraft and weapons systems for survivability in combat environments. The incumbent will be responsible for the instrumentation of test articles and the acquisition and reduction of test data. Secondary duties involve the design, fabrication, planning, procurement, installation and check-out of new facilities and data acquisition systems. Knowledge of instrumentation fundamentals, transducers, data acquisition and recording equipment, micro-computers, basic and assembly language programming, and aircraft systems is desirable. The ability to organize and prioritize tasks and to communicate effectively both orally and in writing is required. To apply, submit current SF-171 to Dennis Sorges, Code 3384, NWC ext. 6401.

No. 36-061, Interdisciplinary

General/Electronics/Aerospace Engineer/Physicist, DP-801/855/861/1330-3, Code 36801 - This position is located in the Project Engineering Office, Product Assurance Division, Engineering Department. The incumbent will provide product assurance engineering support to the Sidewinder Office as the technical leader of participating product assurance disciplines of reliability and maintainability engineering, system safety engineering, quality assurance, soldering technology, and metrology. The incumbent provides single point of contact for all product assurance (PA) support to the Sidewinder project, and acts as primary interface with government/industry counterparts as necessary to support NWC project office and PA initiatives. Please send a current SF-171 to Betty Moute, Code 368, NWC ext. 1056.

No. 39-035, Interdisciplinary (General/Aerospace/Electronics/Mechanical Engineer/Physicist), DP - 801/861/855/830/1310-3, Code 39 - This position is located in the Advanced Projects Office of the Weapons Department. The position requires the incumbent to provide direction, coordination, monitoring, and management of Navy Technology Projects and related tasks. The incumbent and assigned personnel will also provide analysis, evaluation, consultation and/or perform design studies to support technical efforts. Planning and management for environmental design criteria is also included under this task. The incumbent is responsible for participating in and co-chairing technical meetings; defining and providing follow-up on assigned action items; reviewing documentation to assure performance and test requirements are being met; detecting inconsistencies/oversights early-on for appropriate action; and offering appropriate and timely experience to support design decisions. Incumbent must possess a working knowledge in aerodynamics, mechanical design, environmental engineering, structural dynamics and the systems acquisition process. Please submit updated SF-171 to J. Dave Janiec, Code 39E, NWC ext. 2842.

No. 62-044, Interdisciplinary (Electronics Engineer/Computer Scientist), DP-855/1550-2/3, Code 62A - This position is for the Operations Security (OPSEC) Officer for the Test and Evaluation Directorate and is functionally located in the Range Department. As the principal OPSEC officer for the T&E Directorate, the incumbent will plan, direct, implement, and evaluate OPSEC techniques for the T&E operations and manage and direct the Directorate ADP security improvement program. Duties will include, but are not limited to, the following: consult and advise the T&E Directorate on protection of weapons systems testing data; plan, direct, implement and evaluate OPSEC techniques to preserve requisite secrecy before, during, and after operations; oversee OPSEC training for Directorate personnel; develop ADP improvement program requirements; establish and implement an improvement program progress. Incumbent must have a high degree of analytical ability; should possess effective oral and written communication skills; ability to interface with all levels of personnel is desirable; should have mature judgment to advise T&E Director and other senior managers. Incumbent should have knowledge of OPSEC and ADP security rules and regulations; internal NAVVPNCEN security posture; subversive organizations and their methods of operations or know sources of such information; test range operations; interrelationships of test range operations offices, facilities, and crews. Status eligibles may apply. Send current SF-171 to R. Priny, Code 62A, NWC ext. 4823.

### 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 secretary duties are implied by the job relevant criteria indicated below.

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

No. 00-008, Secretary (Typing), GS-318-4/5, Code 005 - Provides secretarial, typing, clerical and other administrative support to the Small Business Program Office. Promotion potential to GS-5.

No. 36-052, Secretary (Typing), GS-318-4/5, Code 3665 - The incumbent provides secretarial support to the Environmental Engineering Branch. Knowledge of the Swintec Electronic Typewriter is desirable. Promotion potential to GS-5. Status eligibles may apply.

No. 62-046, Secretary (Typing), GS-318-4/5, Code 6251 - Incumbent provides secretarial and administrative support to the Computer Systems Branch Head and 18 branch employees. Word processing background is preferred. Status eligibles may apply. Promotion potential to GS-5.

### KIBS

GREAT COUNTRY MUSIC FOR RIDGECREST at 100.9 FM Serving the Indian Wells Valley 24 hrs. every day



ADVERTISING SALES AT 206 Balsam, Ridgcrest

## What the Navy sees in a top CPO

Many first class petty officers, chiefs and senior chiefs either have or will soon face an enlisted selection board.

When selection boards for E-7, E-8 and E-9 meet to evaluate candidates they do so by rate. The recorders from the overall Navy selection board gives a panel for each rating the folders with the proper microfiche records, any correspondence sent by a candidate and received by the board before it convenes, and a selection board brief sheet.

This brief sheet includes the candidate's name, Social Security Number, exam rate, present rate, time in rate,

exam score and time in service. The brief sheet is used by the panel to note the candidate's test score (E-7 only), rate and Unit Identification Code (UIC).

Each record is reviewed by a panel member. At least three years of evaluations are reviewed, with five years being the norm. Depending on the keenness of competition, panel members may go back further and establish performance trends to break ties. When the entire rating has been reviewed once, the process starts again and each candidate gets a second review from a second panel member. If there is a significant difference between the panel members' assess-

ments, either a third member reviews the record, or a discussion between original members results in a decision.

Until the board is convened, all correspondence received on a candidate is forwarded to the panel, along with the individual's microfiche record. This ensures the panel has the most up-to-date information about the candidate.

Sustained superior performance is the most important factor in the selec-

tion process. Other factors affecting selection include:

- Significant emphasis is placed on professional performance at sea. Candidates need not be presently in a sea duty billet, but should have a record reflecting professional and managerial excellence at sea or in isolated duty assignments. Additionally, it is recognized that some ratings do not offer a broad opportunity for sea duty, parti-

(Continued on Page 6)



# Get Your Bod On A Quad.

## And Get Up To \$150 Cash Back!



Whether you're big, tall, wide or small—we've got the right-sized Quad for you! And with \$150 cash back\* on our 230E and 230S models, plus Suzuki's new retail financing program\* on selected models, there's no better time to buy one than right now. So visit a participating dealer today and roll out with a hot new Quadrunner. With up to \$150 cash back, it's the perfect time to get your bod on a Quad!

\*Offer runs through July 31, while supply lasts. †At participating dealers on selected models.

Right on, Suzuki

## BOB FOSTER'S SUPER CYCLES

217 N. Balsam St. Ridgcrest - 375-8606



WE SPECIALIZE IN MILITARY FINANCING E-1 & ABOVE

### Have the body you always wanted. \$99 down, \$99 per month.



At just \$99 down and \$99 per month, you're not going to find terms much better than these. Especially for a bike like this: a new 1986 Suzuki Intruder 700, one of the hottest machines on the road. With Suzuki's new easy financing, all you need is \$99 and you'll be able to rumble off from your participating Suzuki dealer on the bike of your dreams. Hurry down today!

\*On approved Suzuki credit. Based on manufacturer's suggested retail price of \$3549. \$99 down with 48 monthly payments of \$99. APT of \$665. Excludes dealer prep, freight, tax, license or title fees, and dealer prices may vary. Offer ends July 31st.

Right on, Suzuki



## BOB FOSTER'S SUPER CYCLES

217 N. Balsam St., Ridgcrest 375-8606



SUZUKI

WE SPECIALIZE IN MILITARY FINANCING E-1 & ABOVE

Knights of Columbus Father John Crowley Council, No. 3199 P.O. Box 847 725 W. Ridgcrest Blvd. Ridgcrest, CA 93555 BINGO Sunday, 6 PM HALL RENTAL AVAILABLE CALL 375-8901 MEET 1st & 3rd Tue. 8 PM

XEREX A Sierra Group Company ELECTRONIC REPAIRS Specializing In The Repair And Maintenance of VCRs - COMPUTERS - RADIO - TELEVISION AND OTHER ELECTRONIC DEVICES 643 North China Lake Blvd. Ridgcrest, CA 93555 8:00 A.M. TO 5:00 P.M. Monday thru Friday 375-3032 Emerson Authorized Service Center

Pete Dietrichson BROKER SPECIALIZING IN KENNEDY MEADOWS, INDIAN WELLS and RESORT PROPERTIES P.O. BOX 202 RIDGECREST, CA 93555 (619) 375-6930

LINE UP YOUR FISHING TRIP at Paradise Lodge on Lower Rock Creek 100.9 FM at 100.9 FM Serving the Indian Wells Valley 24 hrs. every day HOUSEKEEPING COTTAGES FISH FROM YOUR COTTAGE DOORSTEP R.V. PARK • FULL HOOKUPS RESTAURANT-BAR (BUILT OVER CREEK) PARADISE LODGE RT. 2, BISHOP, CA 93514 (619) 387-2370

# CPO picks.

(Continued from Page 5)

cularly at the senior levels, and this is taken into account.

- Candidates presented to the board compete within their rating. It is recognized they are frequently detailed to duty outside their rating specialties.

Therefore, due consideration is given those candidates who have served in, or are experiencing the demanding tours as instructors, recruit company commanders and other tours requiring special qualifications.

- Consideration is given to improving education. This includes academic and vocational training, whether such education is gained as a result of individual initiative in off-duty hours or as a participant in a Navy-sponsored program.
- Evaluations—marks and narrative—are closely reviewed and a trend established. Marks and narrative must correspond on evaluations. The overall/summary ranking also gives the panel an indication of how the candidate compares against members of the same paygrade at their present command. The total man or woman concept is important.

- Duty assignments and history of

duties performed can be determined from the service record transfers and receipts page, and the job description on evaluations. Using this data, board members can tell whether or not the individual is performing duties commensurate with the rate.

- Failure to meet the Navy's PRT/Percent Body Fat standards can hinder an individual's selection opportunity. Additionally, if such an individual is selected, advancement is withheld until he or she meets current standards or the expiration of the limiting date, whichever comes first.

- Test scores (E-7 only) are also taken into consideration since they give the individual relative standing on the exam compared to other candidates.

In summary, the board looks at how an individual performs under various circumstances, duty assignments, job assignments within a command and more. This makes it important to perform well in all assignments, regardless of how arduous or mundane they may seem.

*NEXT: How to improve chances for selection.*

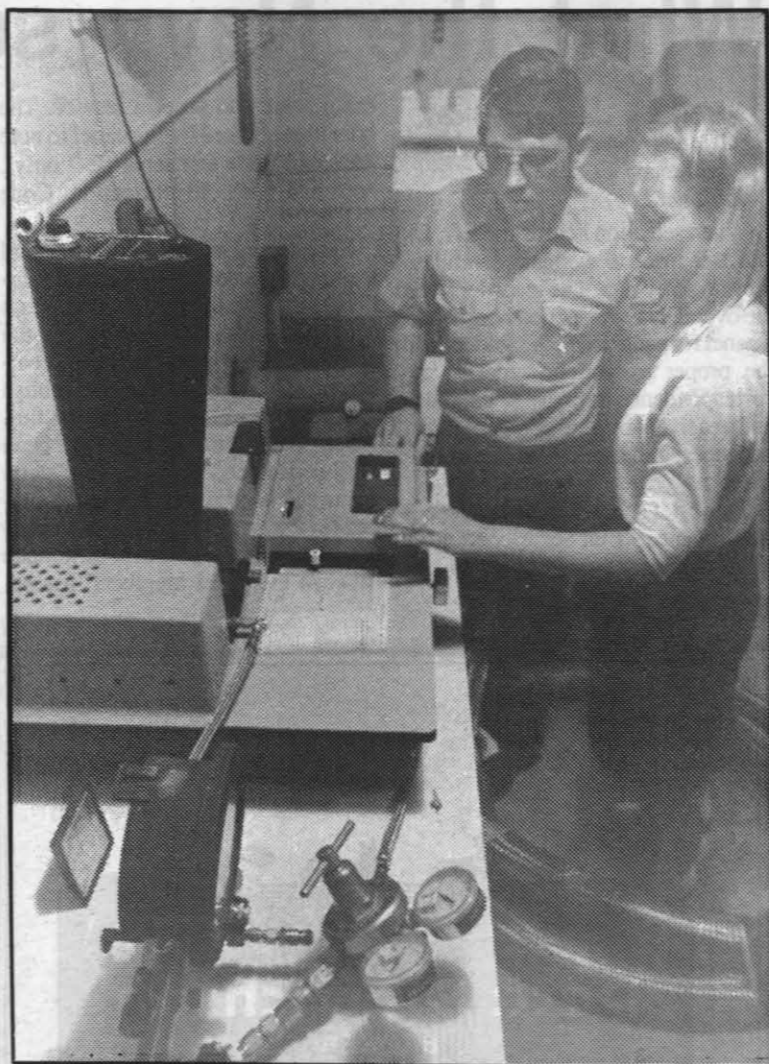
## Kids require own numbers

Now that your 1986 federal income tax return is done, probably the last thing you want to hear about is a new requirement for filing 1987 returns.

True, but the Tax Reform Act of 1986 requires, starting next year, that you show a Social Security number for each dependent age 5 and over listed on your return. And because of expected delays in issuing Social Security numbers, military and civilian families are urged to apply soon for children or other dependents who do not already have one.

If you live in the continental United States, request an application form SS-5 from your local Social Security office. Return or send the completed application to any local Social Security office.

Applications require proof of the dependent's date of birth, identity and U. S. citizenship or lawful alien status. Generally, if the person was born in the United States, his or her birth certificate will serve as proof of age and citizenship. Another document, such as a military I.D. or school record, is needed for identification. If it is necessary to forward this information, certified copies can be used.



**LOX CHECKS**—AME1 Rodney Cochran (left), from the Aircraft Support Division's QA Branch, and Mary Beth Palmer, from NAEC, discuss the workings of the oxygen analyzer at the NWC LOX Facility during training.



## 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 non-merit reason.

No. 08-035, Payroll Clerk, GS-544-3/4, Code 0853 - This position is located in the Payroll Branch, Central Staff. Incumbent performs routine research of payroll records to correct leave data; prepares changes to employee earnings, deductions and leave records; prepares report of leave and earnings data. Job Relevant Criteria: Knowledge of computerized payroll systems; knowledge of leave and labor accounting; ability to interpret and apply federal payroll regulations. Promotion potential to GS-5.

No. 08-033, Budget Clerk/Assistant, GS-561-3/4/5, Code 0836 - Incumbent will provide fiscal clerical support to the branch or any of the departments it serves. Incumbent assists in preparing overhead budgets, gathers financial and accounting data, monitors expenses on customer order/job order numbers, assists the department in processing travel orders and/or material requisition actions. Job Relevant Criteria: Ability to meet deadlines under pressure; ability to work rapidly and accurately; ability to work with figures; and knowledge of accounting or budget clerical procedures. Promotion potential to GS-6. Status eligibles will be considered.

No. 08-034, Budget Analyst, DA-560-1/2/3, Code 0836 - Incumbent provides resource support services to one of NWC's operating departments. Responsible for all phases of budget execution, formulation, control and monitoring of direct, overhead, capital and service-center budgets. Responsible for conducting financial analysis. Job Relevant Criteria: Ability to gather and analyze raw financial data; ability to prepare clear and concise written and oral communications; ability to deal tactfully and effectively with others. Promotion potential to DP-3.

No. 24-025, Lead Electronics Technician, DT-856-2/3, Code 2431 - This position is located in the Physical Security Branch, Safety and Security Department. Incumbent leads four (4) other employees in maintaining NWC security systems. Additionally, incumbent performs maintenance, testing, troubleshooting, repairing and replacing components of a security system. Responsible for timely and accurate reporting of work results and performing detailed tasks. Job Relevant Criteria: Knowledge of electronics principles; ability to use electronic test equipment; ability to read schematics and engineering drawings; ability to work as a member of a technical team; ability to read and understand instructions and procedures; ability to lead a team of employees. Promotion potential to DT-3.

No. 25-029, Purchasing Agent, GS-1105-7, Code 25221, 25222, 25223, 25224 - This position is that of a journeyman purchasing agent. Incumbent will purchase a circle range of materials and services and is expected to develop contracts that deviate from standard features. Incumbent reviews incoming requi-

sitions for adequacy of documentation, description, funding and approvals. Many purchases require special advertising and incumbent must be familiar with regulations pertaining to such purchases. Job Relevant Criteria: Knowledge of small purchase procedures and negotiation techniques; successful completion of de-completion of defense small purchase class; knowledge of modifications required for working with FAR, DFAR, and SUPARS; ability to deal effectively with people at all levels.

No. 32-263, Engineering Technician, DT-802-1/2/3, Code 3265 (Readvertisement) - This position is located in the Thermal Research Branch, Conventional Weapons Division, Ordnance Systems Department. The incumbent will support chemists and engineers in performing field testing of energetic materials with respect to thermal cook-off. Assembly, hook-up and continuity checks will be performed to ensure that all safety aspects are met. Job Relevant Criteria: Knowledge of Ordnance materials; knowledge of light machine shop technology; knowledge of electrical circuitry needed to set up and test energetic materials; ability to work closely with others. Promotion potential to DT-3. Previous applicants need not reapply.

No. 33-020, Supervisory Physicist/General/Mechanical/Electrical Engineer), DP-1310/801/830/855-3/4 - The position is that of Head, Exploratory Development Branch, Electromechanical Division, Fuze and Sensors Department. The branch is responsible for the exploratory and advanced development of safety-arming and arming-firing devices, contact fuzes, warhead initiation systems, bomb fuzes and related components. These devices are typically electromechanical with increasing emphasis on electronic components, microprocessors, and software design. Members of the branch provide consultation in the areas of mechanical system analysis, electronics, heat transfer, explosive train design, and software design. The branch is also responsible for the operation of the Computer Aided Engineering Facility in Code 335. Job Relevant Criteria: Knowledge of the exploratory and advanced development phases of guided missile development, particularly for safety-arming and arming-firing devices, contact fuzing and ordnance systems; knowledge of conventional weapons systems safety; technical background encompassing electronics, mechanics, physics, software, and some chemistry; ability to direct, train, and provide leadership to a multidisciplinary group; ability to communicate clearly and effectively both orally and in writing; ability to interface with sponsors, contractors, and NWC management; willingness to support NWC EEO program; new supervisors will be required to serve a one year probationary period. Promotion potential to DP-4, but not guaranteed.

No. 36-058, Supervisory Engineering Data Management Specialist, DP-301-3, Codes 3652 & 3654 (two vacancies) - These positions are located in the Configuration/Data Management Branches I & II, Technical Data Division, Engineering Department. The incumbent will serve as branch head for one of the Configuration/Data Management Branches. Job Relevant Criteria: Knowledge of affirmative action principles including a willingness to implement NWC EEO practices; knowledge of configuration and data management procedures/instructions; knowledge of the acquisition life cycle; ability to manage an organization; ability to communicate in writing; ability to communicate orally. The incumbent may be required to serve a one year supervisory probationary period.

No. 36-059, Supervisory Engineering Technician, DP-802-3, Codes 3652 & 3654 (two vacancies) - These positions are located in the Configuration/Data Management Branches I & II, Technical Data Division, Engineering Department. The incumbent will serve as branch head for one of the Configuration/Data Management Branches. Job Relevant Criteria: Knowledge of affirmative action principles including a willingness to implement NWC EEO practices; knowledge of configuration and data management procedures/instructions; knowledge of the acquisition life cycle; ability to manage an organization; ability to communicate in writing; ability to communicate orally. The incumbent may be required to serve a one year supervisory probationary period.

No. 36-063, Quality Assurance Specialist, DS-1910-3, Code 3601 - This position is located in the Project Engineering Office, Product Assurance Division, Engineering Department. The incumbent will provide product assurance engineering support to the Sidewinder Office as the technical leader of participating product assurance disciplines of reliability and maintainability engineering, system safety engineering, quality assurance, soldering technology, and metrology. The incumbent provides single point of contact for all product assurance (PA) support to the Sidewinder project, and acts as primary interface with government/industry counterparts as necessary to support NWC project office and PA initiatives. Job Relevant Criteria: Knowledge of product assurance disciplines; ability to plan, implement and track a project from concept to completion; ability to communicate orally; ability to communicate in writing. Promotion potential to DP-3.

No. 36-064, Computer Systems Analyst, DS-334-3, Code 36251 - This position is located in the Systems Engineering Section of the Missile Guidance Branch in the Engineering Department. The incumbent will be responsible for developing, modifying, and maintaining simulations of the Harpoon and SLAM weapons systems, including some computer modeling. The incumbent will also be the system manager for the VAX computer system. Job Relevant Criteria: Knowledge of FORTRAN; knowledge of the VAX 11/780 or Microvax II; ability to perform computer modeling and graphics programming; ability to communicate orally; ability to communicate in writing.

No. 39-034, Administrative Officer, DA-341-2/3, Code 39404 - This position is located in the Special Projects Office of the Electro-Optics Division, Weapons Department. The incumbent provides detailed and comprehensive security administration for classified DOD research and development efforts. Duties also include contract data management, and financial tracking and analysis. Travel will be required. Job Relevant Criteria: Knowledge of security procedures and requirements; knowledge of Navy contractual procedures; knowledge of Navy accounting system; ability to deal effectively with all levels of NWC personnel, sponsors and contractors; ability to obtain a top secret clearance. Status eligibles may apply. Promotion potential to DA-3 level.

No. 62-043, Security Specialist, DS-080-2/3, Code 62A - This position is for the Operations Security (OPSEC) Officer for the Test and Evaluation Directorate and is functionally located in the Range Department. As the principal OPSEC officer for the T&E Directorate, the incumbent will plan, direct, implement and evaluate OPSEC techniques for the T&E operations and manage and direct the Directorate ADP security improvement program. Duties will include, but are not limited to, the following: consult and advise the T&E Directorate on protection of weapons systems testing data; plan, direct, implement and evaluate OPSEC techniques to preserve requisite secrecy before, during, and after operations; oversee OPSEC training for Directorate personnel; develop ADP improvement program requirements; establish and implement an improvement program plan including schedules, costs, required resources, control and monitor improvement program progress. Job Relevant Criteria: Incumbent must have a high degree of analytical ability; should possess effective oral and written communications skills; should have mature judgment to advise T&E Director and other senior managers; knowledge of OPSEC and ADP security rules and regulations; knowledge of internal NAVWPNCEN security posture; knowledge of subversive organizations and their methods of operations or know sources of such information; knowledge of test range operations; knowledge of interrelationships of test range operation offices, facilities, and crews; ability to interface with all levels of personnel. Status eligibles may apply. Promotion potential to DS-3.

No. 62-045, Computer Engineering Technician, DT-802/856-2/3, Code 62A - This position is for the Operations Security (OPSEC) Officer for the Test and Evaluation Directorate and is functionally located in the Range Department. As the principal OPSEC officer for the T&E Directorate, the incumbent will plan, direct, implement, and evaluate OPSEC techniques for the T&E operations and manage and direct the Directorate ADP security improvement program. Duties include, but are not limited to, the following: consult and advise the T&E Directorate on protection of weapons systems testing data; plan, direct, implement and evaluate OPSEC techniques to preserve requisite secrecy before, during, and after operations; oversee OPSEC training for Directorate personnel; develop ADP improvement program requirements; establish and implement an improvement program plan including schedules, costs, required resources, control and monitor improvement program progress. Job Relevant Criteria: Must have a high degree of analytical ability; should possess effective oral and written communication skills; should have mature judgment to advise

T&E Director and other senior managers; knowledge of OPSEC and ADP security rules and regulations; knowledge of internal NAVWPNCEN security posture; knowledge of subversive organizations and their methods of operations or know sources of such information; knowledge of test range operations; knowledge of interrelationships of test range operation offices, facilities, and crews; ability to interface with all levels of personnel. Status eligibles may apply. Promotion potential to DT-3.

No. 64-189, Administrative Assistant/Officer, DA-341-1/2, Code 6406 - Incumbent provides administrative support to the head of the Telemetry Program Office in areas of budget, procurement, plant account, facilities, personnel, and security. Incumbent will be technical coordinator of Comarco D.O.'s. Must be able to work under short deadlines. Job Relevant Criteria: Knowledge of personnel, budget, plant account, procurement regulations and procedures; knowledge of delivery orders and ability to generate necessary paperwork; ability to collect and analyze data; ability to communicate orally and in writing. Promotion potential to DA-2.

## Reassignment opportunities

This column is used to fill positions through reassignment only. For this reason, the Reassignment Opportunity Announcements are separate from the Promotion Opportunities column in the Rocketeer. Applications will be accepted until the date stated in the announcement. Employees whose work history has not been brought up to date are encouraged to file an SF-171 or 172. All 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. 14-012, Interdisciplinary (Electronics Engineer/Physicist) DP-855/1310-2/3, Code 145A - This position as a Project Engineer is located in the Integrated Communications System Project Office. The prime function of this position will be to analyze user requirements, plan, design, specify, and integrate networks with emphasis on networking with the Fiber Optics Trunk System as part of the Centerwide Integrated Communications System Program. The incumbent will also analyze technology trends for network systems as it relates to existing and planned corporate NWC networks. The incumbent will also interface computer networks such as DECNET with fiber optics; networks using protocol standards such as IEEE 802, X.25; Networks with communication topologies such as Bus, Star, and Ring; and network transmission techniques such as baseband; extensive training will be provided for specialized network system design skills. To apply, submit current SF-171 to John LaMar, Code 145A, NWC ext. 4678.

No. 14-013, Interdisciplinary (Electronics Engineer/Electrical Engineer/General Engineer/Physicist), DP-855/850/801/1310-2/3, Code 145A - The prime function of this position will be to analyze user requirements, plan, design, specify, and integrate video systems with the Fiber Optics Trunk System as part of the Centerwide Integrated Communications System Program. The incumbent will also analyze video systems' technology trends as they relate to planned corporate video systems such as distribution of range test video, teleconference, and CATV signals. Major medias to be interfaced to includes fiber optics. Standards such as RS-170, RS-330, ANSI T1Y1, and NTSC may be used. Transmission systems may include compressed video and wideband point-to-point or point-to-multipoint broadcast video/audio transmission services. Extensive

### PERFORMANCE & OFF ROAD PARTS

Our Performance Products Help You Stay Out Front...

DEE ZEE

MR. GASKETS

"Names Speak for Themselves..."

## DESERT AUTO PARTS

Corner of Atkins & Norma 446-3561

INDIAN ARTS AND CRAFTS

### 20% OFF!

20% Off Zapotec Rugs and Peruvian Wall Hangings

Pottery • Rugs • Kachina Dolls • Peruvian Rugs  
Sand Paintings • Jewelry

901 N. Heritage Dr. Village Center Plaza 446-4346

HURRY IN!

## New skill.

(Continued from Page 1)

denis were given the opportunity to take a LOX sample from storage tanks or tank truck making deliveries and process it through an analyzer. This was the final part of their training in the ABO program.

Those completing the class received a certificate of training and their personnel records will reflect this additional schooling and skill.

# HELP!

My Daddy has been missing since 5-13-87. That's when he started selling firewood. If you buy yours now, he'll sell it all and stay home with me. It doesn't cost a lot now, so call 446-4615 and talk to Mommy or Daddy (Debbie or Dave).

A pile of logs (Daddy says it's a cord) is \$85.00. (If you order 3 piles of logs, it's only \$75.00 each!) Daddy will chop it up (cut & split) for \$110.00 per cord. He'll even bring it to your house!

Please call soon, I miss my Daddy, a whole lot!!!

## New themes for parties

NWC Recreational Services Youth Activities has three new themes to pick from for summer birthday pool parties. Choose such themes as Beach Party, Dinosaurs or Tumbling Teddys. Or, choose one of the stand-by themes such as Clown Circus, Sports, Teddy Bear, Wild Animal and Pirates.

Each party includes cake, ice cream, party favors, pool games and a balloon-o-gram delivered to the birthday child by the great Kahauna or Gidget. Location for each party can be at the Enlisted Pool, Chief Petty Officers' Pool or the Commissioned Officers' pool.

Price for these parties is \$5 per person. Registration is taken at the Information, Ticket and Tour (ITT) Office Monday through Friday from 9 a.m. to 5 p.m. For more information contact the ITT Office at NWC ext. 2010.

# Space Week honored

Capt. Robert M. Kraft, a Navy Program Director for the National Aero-Space Plane at the Defense Advance Research Projects Agency, will be guest speaker at the High Desert Engineering Association (HDEA) meeting honoring Space Week.

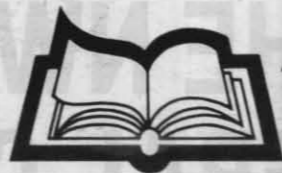
The dinner meeting will be held at the Enlisted Mess on Wednesday, with a social hour opening the evening at 6 p.m., to be followed by dinner and the program at 7.

Tickets for the evening, including dinner and Capt. Kraft's talk, are \$12 per person. They can be purchased from: Mac McMahon, NWC ext. 5952; Tony Miller, 446-7671; Bud Ruff, NWC ext. 3303; Naomi Cho, 375-8825; and Clark Hay, NWC ext. 5607.

# Facilities talk scheduled

Michael Haas of the Leslie Salt Company will talk about "The Plant and Facilities of the Leslie Salt Company" at a lunch meeting of the China Lake Post of the Society of American Military Engineers on Tuesday, Aug. 4. The lunch meeting will be held at the Commissioned Officers' Mess at 11:30 a.m.

Menu selections will be either the soup and salad bar at \$3.25 for members and \$3.50 for nonmembers or roast beef with mashed potatoes and gravy at \$5 for members and \$5.25 for nonmembers. Those planning to attend must telephone Sam Miller, NWC ext. 3411/287 for reservations by the preceding Thursday.



## NOTS from the Past

Second Technical Director of what was then the Naval Ordnance Test Station was Dr. Frederick W. Brown, who took over when Dr. L. T. E. Thompson left government service in 1951.

Dr. Brown, who held degrees both in engineering and physics had received postdoctorate training as a National Research fellow under Dr. J. R. Oppenheimer at the University of California and at the California Institute of Technology.

He began his service with NOTS as associate head of the Underwater Ordnance Department at the Pasadena Annex in 1949, then became Associate Director for Research and Development in 1950.

After two years as Technical Director, Dr. Brown moved to Boulder, Colorado, to become director of the Boulder Laboratories of the National Bureau of Standards.

He died following a heart attack on Oct. 24, 1970.

**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)

# Alcohol law toughened

From 1981 to 1985, state legislatures passed 478 bills related to alcohol and highway safety. Those new laws typically improved the ability of law enforcement agencies to identify and process intoxicated drivers and otherwise toughened state drinking and driving laws.

Some states and communities have made remarkable progress on the drunk driving problem over the past several years. They are now reaping the dividends of fewer traffic accidents, injuries and deaths. Their plan of action stresses individual social responsibility and purposely involves every part of the community: the police, the courts, the medical establishment, civic and social organizations and citizen groups. Their common effort sends a clear message: If you drive drunk, you're likely to be caught and the punishment is growing increasingly severe.

# Apologies

Code 24 wishes to apologize to everyone who was inconvenienced by the scheduling mix-up for the Security Briefing on Monday afternoon, July 13, in the Center theater. The video equipment had already been dismantled and stored. Set-up time would have required an additional 30 to 40 minutes. Again, our apologies to anyone who was inconvenienced.

# Enlisted Galley sporting an improved look

Things are really cooking at the galley at NWC. Ensign Lynn Okamoto, the new Food Service Division head for the NWC Supply Department, is sprucing up the galley to enable better service for all military personnel and to have a good showing in the small mess service ashore category for the upcoming Ney Award competition.

This competition is designed to reward foodservice personnel in

improving Enlisted Dining Facility operation, service to the enlisted personnel, and maintaining high standards of food preparation. The last time NWC's galley placed in this competition was in 1980.

One of NWC's problems in the past, Ens. Okamoto feels, is the old, worn out equipment the galley has been using. A new heat table has already been installed to keep the food hotter while being served. New

steam kettles have been ordered, but no delivery date has been set.

It isn't uncommon for the 10-year old dishwasher to break down, the Ensign remarked. When that happens, out come the paper plates. The new dishwasher is supposed to be delivered sometime next month.

Another recent change that can be noticed is the revitalization of the salad bar. Ensign Okamoto feels "the old salad bar was rather boring." The

new salad bar has thirty-six different items, including two types of cheeses, grated and cubed; meats; chopped eggs; a variety of salads, such as potato and three-bean; different types of fruits; tomatoes; celery; among other items.

According to Ens. Okamoto, the galley normally serves around 40 people per meal, although right now they are serving between 75 to 80 people per meal due to the JTPA stu-

dents. Because of the small number of people served, a wide menu choice isn't feasible. "We make food most people are going to eat," she said.

In reference to all the changes, Ens. Okamoto said, "We really want to get ready for the upcoming competition," adding, "Command has really been showing support." She feels this helps makes her job a bit easier, and will help put NWC as a serious contender in the Ney Award competition.

**SALADS—**  
Kim Legg, an employee at the Center's Enlisted Galley shows off the new, improved salad bar, one of many changes seen by those eating there.

Photo by PH3 Bob Reynolds



## Military News

### Prudential Insurance

Pat Clark  
Your Local District Agent  
and  
Registered Representative

Specializing in  
PRUCO Securities and other financial services  
SERVING THE COMMUNITY SINCE 1977  
109 N. China Lake Blvd., Ridgecrest 375-8752

THERE'S MORE TO COME . . . AND IT'S ALL FOR YOU . . .

# HERE WE ARE

Come In For Your Free Gift (While Quantity Lasts)

Complete Travel Services: Air - Car - Rail - Ship  
Hotel - Commercial/Leisure

Your 1 Stop Travel Agency - Personalized Service

"Beyond Compare"



Watch For Our Grand Opening

446-7950

## RENO Special

Includes:  
Cabaret Show and Two Cocktails at John Ascuaga's Nugget.  
One Lunch, Two-For-One Dinner and Two Cocktails at the Club Cal Neva for each person.

**\$29.00** Per room, 1 or 2 persons.  
Sunday-Friday excluding some holidays, convention and special event periods.

This ad must be presented at check-in. Expires 12 30 87 Limited Availability

### FREE CASINO SHUTTLE

- 142 Designer Decorated Rooms
- Restaurant and Lounge
- Cable Color TV, AM FM Radio
- Touchtone phones with FREE local calling
- Dancing and Entertainment
- Near Major Shopping Malls
- Minutes from Downtown Casino Center
- Ample FREE Parking - Convenient to Rooms

## Travelodge

at Reno Convention Center  
**(800) 762-5190**  
OUTSIDE NEVADA - TOLL FREE TO US  
3800 So. Virginia Street  
Reno, Nevada 89502  
(702) 825-4700 IR

140 RIDGECREST BLVD  
RIDGECREST, CA  
375-7914

## DESERT MOTORS USED CARS

6907 WOFFARD HEIGHTS  
WOFFARD HEIGHTS, CA  
376-2254

2 LOCATIONS

PRICES SO REASONABLE,  
YOU'D THINK A  
SALE WAS GOING ON!"

### -SPECIAL-SPECIAL-SPECIAL-

DON'T WAIT!

1979 Pace Arrow - by Fleetwood  
28' Motorhome, low miles, immaculate



EXCELLENT CONDITION!  
Won't last long at this Price!

**\$23,999**  
No. 9759

BETTER DEALS  
HURRY!  
LIKE THESE  
DON'T LAST FOREVER!

'85 FORD LTD Sedan  
No. 9714  
Super Buy At  
**\$7,999.00**

'85 CHEVY S-10 4X4 p.u. Tahoe  
No. 9762  
All the Options w/shell  
**\$11,500.00**

'83 TOYOTA COROLLA SR5  
No. 9516  
Sporty, Economical, 5 speed  
**\$5,999.00**

'82 VW QUANTUM  
No. 9721  
Sedan - Loaded  
A Beige Beauty  
**\$6,999.00**

'85 PLYMOUTH VOYAGER - Loaded  
No. 9743  
A Real Steal At -  
**\$10,999.00**

NEW SHIPMENT  
OF 1986 FORD T-BIRDS, FORD TEMPOS  
& LINCOLN TOWN CARS -  
Too Many To List!



'84 NISSAN SENTRA - sedan  
No. 9745  
A/C, AM/FM, Auto.  
Tough to Beat at -  
**\$6,999.00**

# All Stars return to tourney

Tomorrow will provide plenty of action as the China Lake All Stars Majors play the first round of the double-elimination Little League tournament China Lake is hosting at Diamond Four. Beginning at 5 p.m., Searles Valley will battle it out with Cal-City and at 7:30 p.m., China Lake will face Kern River.

Competition will continue Monday with games being played at 5 and 7:30 p.m., and on Tuesday and Wednesday at 7:30 p.m. If three teams haven't been eliminated by the end of the competition on Wednesday, a play-off will be held on Thursday at 7:30 p.m.

Winners of this tournament will proceed to Edwards, where All Stars action will continue.

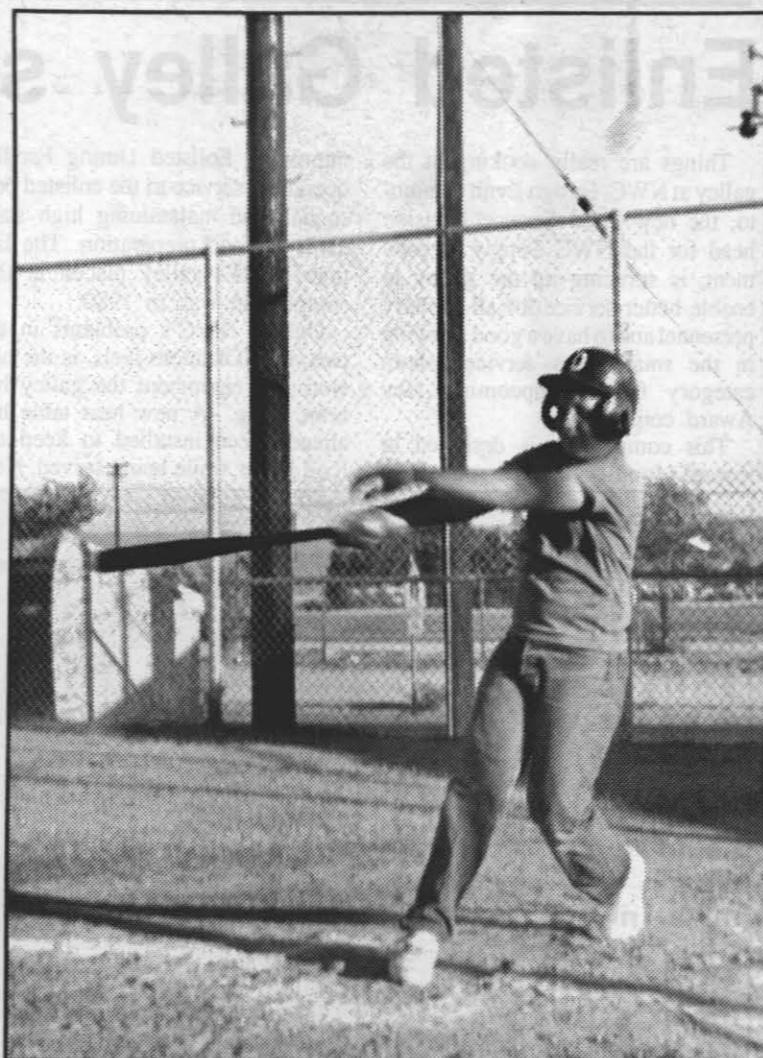
Food and drink will be for sale for those who need refreshments during the games. Any profits will go towards supporting China Lake Little League. Everyone is invited to come and support the local teams.

The China Lake All Stars Majors are Dave Larson as manager, Floyd Shoaf as coach, Larry Staples, Jay Stevens, Cedric Hamilton, Steve Anderson, Mike Mayhugh, Mike Larson, Chris Shoaf, Heather Hillewaert, Eric Sutcliff, Albert Mendoza,

Chad McSparin, Damon Kelling, Herbie Morton, and Mike Sieg.

China Lake All Stars Seniors started play in Bishop earlier this week. They will go hand to hand with Mono County and Owens Valley in their quest for the championship.

All Stars Seniors are Jose Zamora, Leon Hill, and Stan Gurley as coaches, Michael Moffitt, Jim Monigold, Eric Hillewaert, Rusty Ricker, Lance Moore, Wade Patterson, Charles Osborn, Jerry Cline, Colby Saylor, Bradey deGeus, Douglas Gurley, and Brand Hansen.



**ALL OUT EFFORT** — Mike Mayhugh, one of China Lake's All Stars, puts all his power into a swing at the recent bat-a-thon being held to raise money for the upcoming All Stars tournament. Action will start 5 p.m. on Saturday at Diamond 4 with Cal-City battling it out with Searles Valley at 5 p.m. and China Lake trying to oust Kern River at 7:30 p.m.

# Desert Sun Air maintains edge in Summer Softball league play


Desert Sun Air leads in the summer softball league standings with a 10-0 record, but the Outlaws are close behind with 10-1.

Team standings for the rest of the league are, in order, Bad to the Bone,

Softball Team, TNT, Aint's, Sealevel, WTFO, Ben Gay Bengals, Survivors, and, in the bottom slot, the Chiefs.

The championship tournament for

the 1987 softball league began Monday, with games slated Mondays through Thursday evenings at 6 p.m. at Schoeffel Field. Final game of the tourney will be played at 6 p.m. on Tuesday, July 30.



**JUNK FOOD JUNCTION IS LOOKING FINE**  
**COME IN FOR DINNER**  
**WE'RE NOW OPEN TIL 9**  
**WE'VE GOT HEATING and SEATING AND AIR CONDITIONING TOO**  
**NOT TO MENTION OUR RESTROOMS NOT 1 BUT 2**  
**WE'VE GOT AN ANTIQUE STOVE WHERE YOU CAN HELP YOURSELF TO PICKLES AND PEPPERS THAT ARE ON THE TOP SHELF SO COME BY AND SEE OUR NEW WESTERN LOOK TREAT YOURSELF TONIGHT AND LET US COOK**  
**JUNK FOOD JUNCTION**  
 behind The BUDDY BATH CAR WASH  
 221 E. Ridgecrest Blvd. Ridgecrest, CA  
**PHONE ORDERS WELCOME**  
**375-3626**

**Sports**

COUPON



**FREE TIRE ROTATION**  
 TRUCKS 1/2 PRICE  
 with coupon  
 Expires 7-24-87

**317 W. Inyokern Road • 446-2575**  
**HOURS: Mon-Fri 8:30-6:00, Sat 8:30-12:00**

COUPON

## Triathlon set

Active duty military only are going to be able to enter the Men's and Women's triathlon in the Southern Pacific Sports Conference hosted by Naval Air Station North Island on August 22.

More information can be obtained about this event by contacting the Sports Office at NWC ext. 2334 or 2571.

*"I back the family insurance I sell with good neighbor service. Call me."*

**Roger Dorman**  
 121 S. China Lake Blvd.  
 Ridgecrest, CA  
 619-375-7731



Like a good neighbor, State Farm is there.  
 State Farm Insurance Companies  
 Home Offices  
 Bloomington, Illinois

# Only six left alive in league

Summer basketball now has only six teams playing since Dallas dropped out.

Leading the league is Pioneer, with a 6-0 tally.

Other teams include McAdoo, 5-1; Fairchild, 4-2; Mead, 3-3; Burgstahler, 2-4; and JTPA, 1-5.

Basketball is played Tuesday through Thursday at 6 p.m. at the Center gym.

# Golf play underway

Military golf, played Mondays starting at 4:30 p.m. at the Center golf course, has four players currently ranked.

Listed are Washburn with a 1 1/2-1/2; Shorn, 2-2; Corder, 1-1; and Perkins, 1 1/2-2 1/2.

# Pendleton hosts top bowlers

Male active duty and retired bowlers are invited to take part in the 21st annual Camp Pendleton Interservice Bowling Tournament August 15 and 16.

Bowling will be team, singles, doubles, all events and team all events. Bowlers may participate only once in each event.

Entry fee for each four-man team is \$76. The optional all events entry fee is \$80. Entry forms must be received by August 15.

More information can be obtained by telephoning Buzz Sawyer at (619) 725-6109 or AUTOVON 365-6109.

# Surf title contested

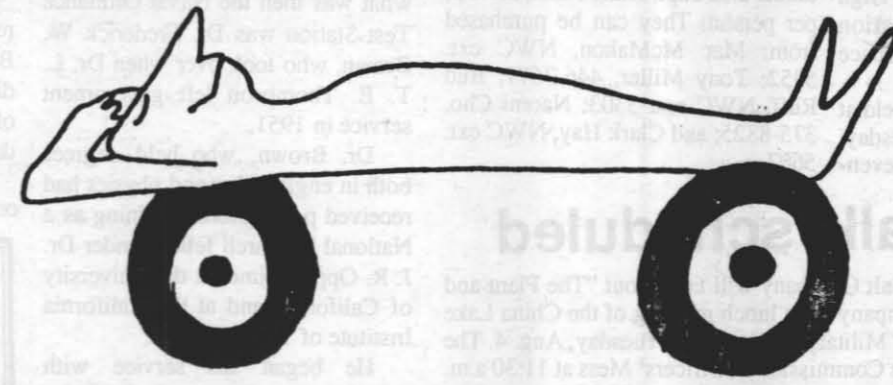
How better to celebrate being in California than by taking part in surfing championships?

All active duty military personnel are invited to compete in the 16th annual Camp Pendleton all-service champion event at San Onofre Beach August 21-23. Competition will take place from 7 a.m. to 3 p.m. daily, depending on water conditions.

Cost is \$15 per person, with team entry fees being \$20 per member or \$60 for a three-person team. Entries must be postmarked by August 7 or a late fee of \$5 per person will be assessed.

More information can be obtained by telephoning Dave Henderson at (619) 725-7313/7935. Entry forms and fees can be mailed to Surf Championship, Base Special Services, Marine Corps Base, Camp Pendleton, CA 92055-5018.

# LET THE NWC COMMUNITY FEDERAL CREDIT UNION



## PUT YOU ON WHEELS

Loan Type	Annual Percentage Rate
<b>New Car Extra Special</b> Up To 80% of Selling Price*	36 months 8.0% APR. 48 months 8.5% APR. 60 months 9.0% APR.
<b>New Car Special</b> Up To 100% of Selling Price*	36 months 9.0% APR. 48 months 9.5% APR. 60 months 10.0% APR.
<b>Used Car Special</b> 1984 or Newer	36 months 10.0% APR. 48 months 10.5% APR. 60 months 11.0% APR.
<b>Used Car, 1983 or Older</b> at current rate & policy	36 months 12.0% APR. 48 months 12.5% APR. 60 months 13.0% APR.

**No Pre-payment Penalty**

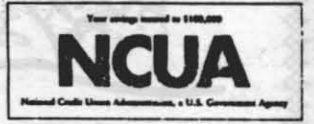
\*Excludes Tax and License

## NWC Community Federal Credit Union

Over \$130,000,000.00 Strong

China Lake 1115 King Ave./446-6521  
 Ridgecrest 1323 N. Norma/446-6521  
 Kernville 44 Big Blue Rd./376-2251  
 Lake Isabella 7000 Lake Isabella/379-4671  
 Boron 27055 Mule Team Rd./762-5650  
 Mojave 16910 1/2 St. Hwy 14/824-2494

Remember: A Pre-Approved Auto Loan is Like Carrying A Signed, Blank Check In Your Pocket





# Anglers find good fishing

Fishing throughout the Owens Valley and the high country varied from good to very good to excellent last week, with the best fishing being found in the high country lakes.

The lakes reached by the Onion Valley Road (and then on foot) produced some excellent catches. Further north, Ruwau Lake produced catches of Kamloops trout to 12 inches, Saddle Rock Lake anglers caught brookies to 10 inches and Sotcher Lake — for those using a float tube and streamers — also produced good catches.

Lots of anglers who like to fish in lakes are hitting the June Lake Loop lakes because the Chamber of Com-

merce has planted 200 2- to 3-pound trout that are tagged. Any angler catching one of these and turning it in will receive a gift certificate from a merchant in that area.

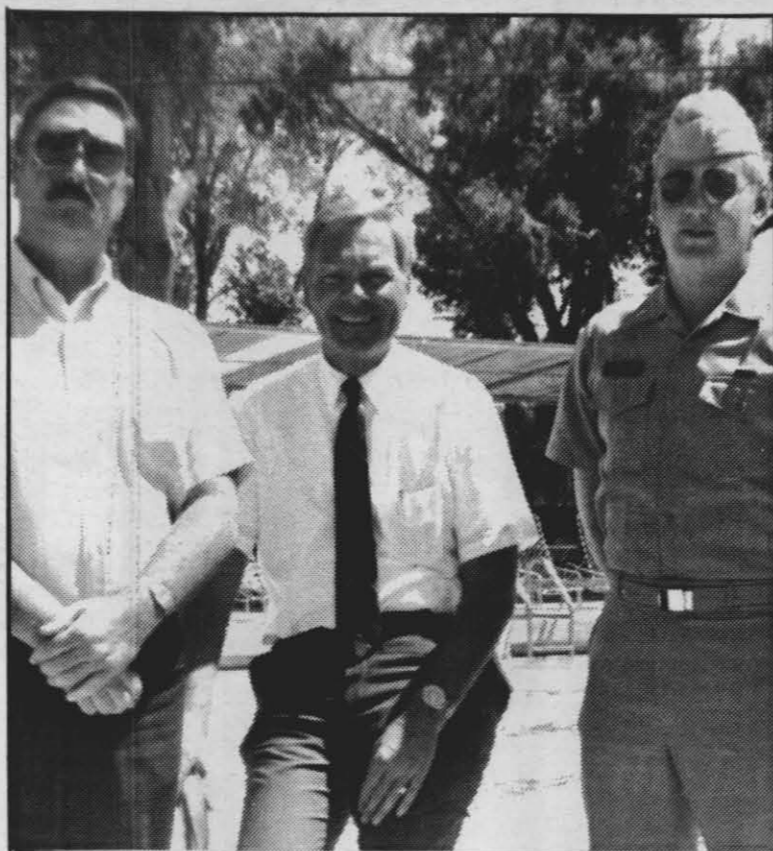
Fishing at Lake Crowley is not outstanding, but anglers who get out into the Owens Arm area in floats and use nightcrawlers probably will catch a limit of trout. Perch are also being caught in quantity. Use yellow, black or purple perch gigs.

At Bridgeport reservoir, good-sized rainbows are being taken with bait by anglers still fishing from boats; those preferring fishing from the bank are doing better at Bridgeport Twin Lakes, again with bait. Fly

fishermen using either a fly rod or a bubble and fly combination will catch a limit at Virginia Lake with a black gnat or a mosquito fly.

At the Mammoth Lakes, worms and salmon eggs will result in a catch of pan-sized trout. Fly fishermen are also using California mosquitoes to land the hungry trout. Rock Creek Lake trout, however, prefer salmon eggs, Zeke's floating cheese, and worms.

At Convict Lake, trolling with 8 to 10 color lead core line with a Rapala or a Rebel lure results in a catch, but Needlefish and Dave Davis lures with worms will bring planted trout up to 13 inches in length at South Lake.



**WINNERS**—Greg Holladay, Sam Miller, and Lt.j.g. Marc Myrum represented the China Lake Swim Club at a meet in Santa Barbara last Sunday with great success.

## Swim team wins three

Members of the China Lake Swim Club made it three for three at Santa Barbara Swim Club Masters competition last Sunday. All three of the local swimmers who attended the meet scored in their events.

Lt.j.g. Marc Myrum, who had never competed previously in an outdoor pool, nor swum those distances competitively, took two firsts: one was a 27.72 finish in the 50-meter freestyle and the other was a win in the 50-meter butterfly at 29.29.

Sam Miller, also from the Public Works Department, placed first in the 50-meter backstroke.

Greg Holladay of the Aircraft Weapons Integration Department took a third in the 50-meter freestyle and a fourth in the 100-meter freestyle. He had not competed in more than 23 years and had been working out just a week in preparation for this meet.

The next competition for the China Lake Swim Club will take place Sunday, July 26, at Pico Rivera.

The China Lake Swim Club is sanctioned by the Southern Pacific Masters Association in conjunction with U.S. Masters Swimming. Masters Swimming is open to all ability levels for swimmers aged 19 and over. Workouts are scheduled and competitive meets are held monthly throughout southern California.

Further information about Masters Swimming and the China Lake Swim Club can be obtained from Sam Miller, NWC ext. 3411/413.

Miller says "I encourage all swimmers who are seeking to get into competition or just to work out with a team to get into shape to join the China Lake Swim Club for workouts. It's a lot of fun and you can keep in shape while enjoying a wholesome sport."

**NOTARY PUBLIC**  
TODD'S  
Secretarial Service  
375-8055  
318 W. Ridgecrest Blvd.  
9-5 Mon.-Fri.

**STEVE MALANS UPSTAGE MUSIC CO.**  
Music For All Occasions  
Fully Equipped Pro Disc Jockey's  
Parties | Receptions  
call: **STEVE MALAN 375-0706**

**150 UNITS IN STOCK!**

**Great Selection**

- Motorhomes
- Trailers
- 5th Wheels

When You Think RV's Think **YOUNG'S**  
A.V. Freeway at the Ave. "I" Exit  
**Lancaster, CA**  
**(805) 942-8447**

**"I back the family insurance I sell with good neighbor service."**  
And our new computer system makes that good service even better. Call me.  
**Gary Charlon Insurance**  
425 W. Drummond Dr.  
Ridgecrest  
375-5091  
Like a good neighbor, State Farm is there.  
State Farm Insurance Companies  
Home Offices: Bloomington, Illinois

Your Car Care Specialist  
**Speedy Lube**  
"In & out just like that!"  
**Full Service Oil Change**  
Includes: Penzoil Oil Filter, 5 qts. Penzoil\* 30W, 10-30W, or 10-40W, Lube to manufacturer's specifications. Check: Air cleaner, tire pressure, brake fluid, transmission fluid, power steering fluid, belts & hoses.  
**\$18<sup>95</sup>**  
Plus Tax Most Cars  
**Tune Up**  
4 Cyl.....19<sup>95</sup> plus parts  
6 Cyl.....24<sup>95</sup> plus parts  
8 Cyl.....30<sup>95</sup> plus parts  
**Air Conditioner Charged \$15<sup>00</sup>** plus freon  
433 N. China Lake Blvd. 375-6080

# PARKING LOT SALE!

ALL PRICES DRASTICALLY REDUCED - BRING YOUR TRUCK & TRAILER - ALL SALES FINAL

DRAWING FOR FREE WARING 16-SP. BLENDER	SLICE 1.47 6-PK. ALL VARIETIES	KWIKSET TWIN ENTRANCE LOCK SETS Reg. \$43.95 <b>29.97</b>	Lewis Hyman OAK VENEER SHELVES 50% OFF	PEPSI AND HOT DOG 25¢	DRAWING FOR FREE VERMONT AMERICAN TOOL BOX	AXE & KNIFE SET Reg. \$54.29 <b>28.97</b>	POCKET WORKSHOP Reg. \$27.49 <b>15.97</b>	PEPSI 1.47 ALL VARIETIES	DRAWING FOR FREE CUMMINS BENCH GRINDER
YOUR CHOICE ASSORTED SCREWDRIVERS Reg. \$1.59 <b>97¢</b>	WHISTLING TEA KETTLES Reg. \$4.59 <b>3.97</b>	RUBBERMAID PAPER TOWEL HOLDER Reg. \$1.69 <b>1.27</b>	RUBBERMAID TWIN TURNTABLE Reg. \$5.35 <b>3.97</b>	RUBBERMAID 2-PACK ICE TRAYS Reg. \$1.29 <b>97¢</b>	RUBBERMAID COVERED PITCHER Reg. \$2.99 <b>1.97</b>	RUBBERMAID LOAF SET Reg. \$5.99 <b>3.97</b>	KV GLASS SHELF KIT BRONZE/BROWN 6x18 Reg. \$18.09 <b>9.97</b>	KV GLASS SHELF KIT BRONZE/BROWN 8x18 Reg. \$19.79 <b>11.97</b>	KV GLASS SHELF KIT BRONZE/BROWN 8x24 Reg. \$22.79 <b>14.97</b>
YOUR CHOICE ASSORTED PLIERS Reg. \$2.88 <b>1.97</b>	ECKO QUICK CLEAN NON-STICK BROILER PAN Reg. \$16.49 <b>10.97</b>	RUBBERMAID SERVIN' SAVER Reg. \$2.19 <b>1.77</b> 6-cup	RUBBERMAID SERVIN' SAVER Reg. \$1.75 <b>1.27</b> 4-cup	RUBBERMAID SERVIN' SAVER Reg. \$1.39 <b>97¢</b> 2-CUP	RUBBERMAID SERVIN' SAVERS Reg. \$6.29 <b>4.57</b> 3-PC. 4, 6, 12 CUP BOWLS	RUBBERMAID 12-CUP BOWL WITH LETTUCE CRISPER Reg. \$3.69 <b>2.97</b>	KV GLASS SHELF KIT CLEAR/WHITE 6x18 Reg. \$13.69 <b>7.97</b>	KV GLASS SHELF KIT CLEAR/WHITE 8x18 Reg. \$15.79 <b>8.97</b>	KV GLASS SHELF KIT CLEAR/WHITE 8x24 Reg. \$18.89 <b>9.99</b>
ASSORTED METAL SNIPS Reg. \$4.59 <b>3.47</b>	ECKO NYLON SPATULA Reg. \$1.79 <b>1.27</b>	DRAWING FOR FREE COVERED FRYING PANS	RUBBERMAID MICROWAVE DUAL ACTION TURNTABLE Reg. \$24.99 <b>18.37</b>	RUBBERMAID SELF-CLOSING WASTE BASKETS Reg. \$9.59 <b>6.97</b>	RUBBERMAID WASTE-BASKET Reg. \$5.29 <b>3.87</b>	RUBBERMAID NEAT-N-TIDY BUCKET Reg. \$3.69 <b>2.77</b>	24" SHELF ANCHORS Reg. \$10.59 <b>5.47</b>	36" SHELF ANCHORS Reg. \$14.99 <b>8.97</b>	48" SHELF ANCHORS Reg. \$19.89 <b>11.97</b>
METAL SNIPS 3-PC. SETS Reg. \$11.99 <b>8.97</b>	COMBINATION FLEX WRENCHES ANY SIZE Reg. \$3.99 <b>2.47</b>	RUBBERMAID DISH PAN Reg. \$3.29 <b>2.27</b>	RUBBERMAID LAUNDRY BASKET Reg. \$5.79 <b>3.97</b>	RUBBERMAID 8-GALLON STORAGE CONTAINER Reg. \$5.59 <b>2.97</b>	RUBBERMAID 8-GALLON STORAGE CONTAINER Reg. \$11.89 <b>8.57</b>	RUBBERMAID 16-GALLON STORAGE CONTAINER Reg. \$17.29 <b>10.97</b>	AUTOMATIC POWER BIT DRIVER Reg. \$4.99 <b>3.17</b>	THERMOMETER BIRD FEEDER Reg. \$3.99 <b>2.17</b>	TRAVELING CLOCK Reg. \$5.99 <b>3.47</b>
DRAWING FOR FREE QUART PEN WATCHES	40-PIECE SOCKET SETS Reg. \$6.99 <b>4.47</b>	20-PIECE COMBINATION WRENCH SET Reg. \$19.99 <b>10.97</b>	ELECTRONIC CALCULATOR Reg. \$13.99 <b>8.97</b>	DRILL BIT SET Reg. \$39.99 <b>24.97</b>	DRAWING FOR FREE WORK GLOVES	COMPASS CLOCK W/COIN HOLDER Reg. \$6.99 <b>3.97</b>	MICRO 110 CAMERA W/KEYCHAIN Reg. \$6.99 <b>2.97</b>	6" METRICK INCH & DECIMAL RULER Reg. \$2.95 <b>1.97</b>	DRAWING FOR FREE 9x12 OUTDOOR GRASS Reg. \$4.98 <b>3.07</b> QT.
6-TON HYDRAULIC JACKS Reg. \$19.97 <b>24.99</b>	33-PIECE REVERSABLE RATCHET SETS Reg. \$7.99 <b>3.77</b>	5-PC. SET OFF SET WRENCHES Reg. \$29.95 <b>16.97</b>	6" METRIC & INCH CALIPER Reg. \$13.99 <b>8.97</b>	MIRROR JR. LOAF PAN Reg. \$4.35 <b>2.97</b>	FOLEY 2-QT. SAUCE PAN Reg. \$8.69 <b>5.97</b>	ANTROL 6 OZ. ANT KILLER SPRAY Reg. \$2.29 <b>1.47</b>	5-INCH SLIP JOINT PLIER Reg. \$3.89 <b>2.97</b>	JOB'S INSECT SPIKES FOR ROSES Reg. \$9.49 <b>5.77</b>	ORTHO TRIOX VEGETATION KILLER Reg. \$4.98 <b>3.07</b> QT.
10 or 6 FOOT MEASURING TAPES Reg. \$3.99 <b>2.47</b>	FOOT PUMP Reg. \$7.99 <b>3.77</b>	BOX END WRENCH SET Reg. \$29.99 <b>13.97</b>	1" MICROMETER Reg. \$20.59 <b>18.97</b>	MIRRO 8" SAUTE PAN Reg. \$6.35 <b>3.97</b>	FOLEY 3-QT. SAUCE PAN Reg. \$10.25 <b>6.87</b>	ANTROL 2.50 OZ. ANT POWDER Reg. \$2.79 <b>1.77</b>	4 1/2-INCH END NIPPER Reg. \$6.19 <b>4.97</b>	PIN POINT GRAPHITE Reg. \$2.45 <b>1.97</b>	ORTHO DIAZINON GRANULES Reg. \$10.98 <b>6.27</b> 3 LB.
SURVIVAL SHOVELS Reg. \$16.99 <b>7.97</b>	WALL COAT RACK Reg. \$4.99 <b>2.07</b>	CEMENT & MASONRY 9-PC. SET Reg. \$29.99 <b>18.97</b>	0-1" MICROMETER Reg. \$20.59 <b>14.97</b>	MIRRO 10" SAUTE PAN Reg. \$7.50 <b>4.97</b>	FOLEY 10-INCH FRY PAN Reg. \$12.95 <b>7.47</b>	ORTHO 10 OZ. ROSE & FLORAL DUST Reg. \$4.59 <b>2.87</b>	DRAWING FOR FREE RUBBERMAID SERVING SAVERS	1 1/2-INCH INSPECTION MIRROR Reg. \$4.09 <b>2.97</b>	DEADLINE FOR SNAILS & SLUGS Reg. \$4.75 <b>2.57</b> QT.
SURVIVAL KNIVES Reg. \$19.99 <b>9.97</b>	10-PC. SET ROTARY BURRS, FILES & RASPS Reg. \$34.99 <b>22.97</b>	HORSESHOE SET Reg. \$38.95 <b>16.97</b>	UTILITY KNIFE BLADE Reg. \$1.49 <b>97¢</b>	MIRRO 6 QT. SPEED COOKER Reg. \$46.50 <b>29.97</b>	FOLEY 5-QT. SAUCE POT Reg. \$16.35 <b>9.57</b>	QUARTZ PEN WATCH Reg. \$2.99 <b>1.97</b>	5-INCH LONG NOSE PLIER Reg. \$5.95 <b>4.97</b>	4 1/2-INCH LONG NOSE PLIER Reg. \$6.19 <b>4.97</b>	STANDARD DEADLOCK Reg. \$47.59 <b>29.97</b>
DRAWING FOR FREE TELEPHONE WITH MUTE & REDIAL	6-PUNCTION ALL-IN-ONE TOOL Reg. \$9.99 <b>4.97</b>	BUG KILLER Reg. \$19.99 <b>12.97</b>	MINI BURRS, BITS & STONES Reg. \$12.99 <b>7.97</b>	CAKE PAN Reg. \$8.99 <b>5.97</b>	PRECISION POINT KNIFE Reg. \$3.99 <b>2.97</b>	INSTRUMENT OIL Reg. \$2.75 <b>1.77</b>	STUBBY RATCHET SCREWDRIVER Reg. \$6.29 <b>3.97</b>	MAGNETIC RETRIEVER & PROBE Reg. \$4.29 <b>2.97</b>	STANDARD DEADLOCK Reg. \$27.59 <b>19.97</b>

SALE RUNS JULY 17th thru JULY 25th - OPEN SUNDAY, JULY 19th 8-5 - SHOP EARLY FOR THE BEST BUYS



## BUILDER'S HARDWARE & SUPPLY

151 N. DOWNS • RIDGECREST, CA 93555 • (619) 375-3312



# Research Department for insensitive munitions. . .

(Continued from Page 1)  
Branch (Code 3894) headed by Mark Alexander. The goal of this small scale testing, primarily done in laboratories and test cells, is to provide fundamental understanding of the controlling processes and to provide the munition designer with data that he can use early in the design cycle. This is in support of the large scale component or munitions testing done by the Ordnance Systems Department and the Ordnance Test and Evaluation Division (Code 621) of the Range Department.

To define what data are needed, researchers take the IM requirements and criteria defined in Naval Sea Systems Command (NAVSEA) Instruction 8010.5, "Technical Requirements for Insensitive Munitions," and work them "backwards." This results in a hazard protocol for each of the hazard areas (sympathetic detonation, bullet impact, fragment impact, cookoff and electrostatic discharge) that tells what information is needed and in what order or priority.

The information defined as necessary by the protocol is then used to make hazard maps by plotting it graphically. The location of the lines and their positions relative to other data provides the hazard map. The maps are used to understand

hazard phenomena and, when compared with threats, to determine hazard vulnerability. They are also used as design tools, to aid in the

selection of large scale tests and to indicate where further data are required.

Once it is known what informa-

tion is needed and how it will be used, the various small scale tests are reviewed and relevant tests selected. In addition, deficiencies are

noted and corrective measures defined.

This process and its application to sympathetic detonation and bullet and fragment impact was recently presented in a paper by Boggs, Alexander and Richter at the 1987 Joint Army-Navy-NASA-Air Force (JANNAF) Propulsion Systems Hazards Meeting.

The JANNAF Propulsion Systems Hazards Subcommittee was founded by Dr. Ronald Derr. Head of the Research Department, Dr. Derr was the first chairman of this group. He was succeeded by Thom Boggs, head of the Engineering Sciences Division. Members of the department have also been active in the international arena through participation in TTCP, which includes members from Australia, Canada, the United Kingdom, the United States and NATO. Dr. Derr serves as the principal U. S. representative to the NATO group on safety and suitability of munitions.

Based on the protocol, hazard maps and test evaluations, various researchers are studying different parts of the problem. Ken Graham, Larry Boyer and Dean Mallory, together with Doug Lind and Peter Hervine of the Detonation Mechanics Branch (Code 3266), are studying detonations resulting from mechanical shock. Herb Richter, Al Lepie and Norm Zwierzchowski are showing how small amounts of damage associated with manufacture, storage, handling and operational use can make the energetic materials markedly more sensitive.

Ken Pringle, Steve Finnegan and Mark Alexander are studying the penetration mechanics of bullets and fragments entering the motor and propellant or warhead and explosive.

Alice Atwood and Don Zum are studying the ignition and burning behavior of propellants and explosives to determine what energy is required to ignite the energetic material and how fast the material burns once ignited. These data are required to predict whether a motor or warhead will violently explode due to bullet or fragment impact.

Rena Yee has been studying the effects formulation changes have on impact sensitivity, and Martha Wagenhals has been defining the fragment and bullet threats various weapons systems are likely to encounter.

Josephine Covino, Frank Hudson, Karl Kraeutle and Larry Boyer are studying the sensitivity of propellants to electrostatic discharge in an effort to prevent incidents such as the one involving the Pershing II in Europe that killed three people.

The experimental program is tightly coupled with analytical



CAREFUL WORK—Dr. Jo Covino examines apparatus for a breakdown test.

**E & E ENTERPRISE**  
Sumco Upholstery  
Auto Detail Center & Mobile Wash

Back Packs & Camping Equipment Repairs - Custom Car Upholstery - Custom Sewing of all kinds - Parachute Fabrication - Cooler Covers - Boat & Car Covers - Government Contracts - Furniture Specialist

309 N. Inyokern Road 446-7332

## "The Logical Choice"

- \* Turbo XT, AT, and 386 Systems (Best Deals)
- \* Professional Accounting Software
- \* Point of Sale/Electronic Cash Drawers

### Specials

- \* C-64 Software/Hardware Sell-out \$ Call
- \* Everex Modems (300/1200 Hayes Comp.) \$129
- \* Printers (Star, Citizen, Panasonic) \$ Call
- \* XT/AT Hard Disk Tape Backup Systems
- \* (40MB, Int/Ext with Software) \$499
- \* Logitech Mouse w/Software \$99
- \* Adjustable System Stands \$159

For the best in computing - Call

**Optimal Systems**  
375-0742

Located in Desert Com. Center  
643 N. China Lake Blvd.  
Since 1984



All Merchandise  
**50% off**

We're Closing our doors

Fabric, Patterns,  
and Notions  
Fixtures for Sale

**Fabratique**  
Fabric Shop  
811 N. China Lk. Blvd.  
375-9171

Going Out of Business

Indulge Yourself AT  
The Gourmets Cache

Available -

Fine Wines • Imported Beers  
Specialty Cheeses & Foods  
Bar & Tableware

Stop in & see what other fine foods & things we have!!

Corner of Drummond &  
N. Heritage at Village Center Plaza

OPEN: 10-6 Mon. - Fri.  
10-5 Sat.  
446-6822

(Continued on Page 11)

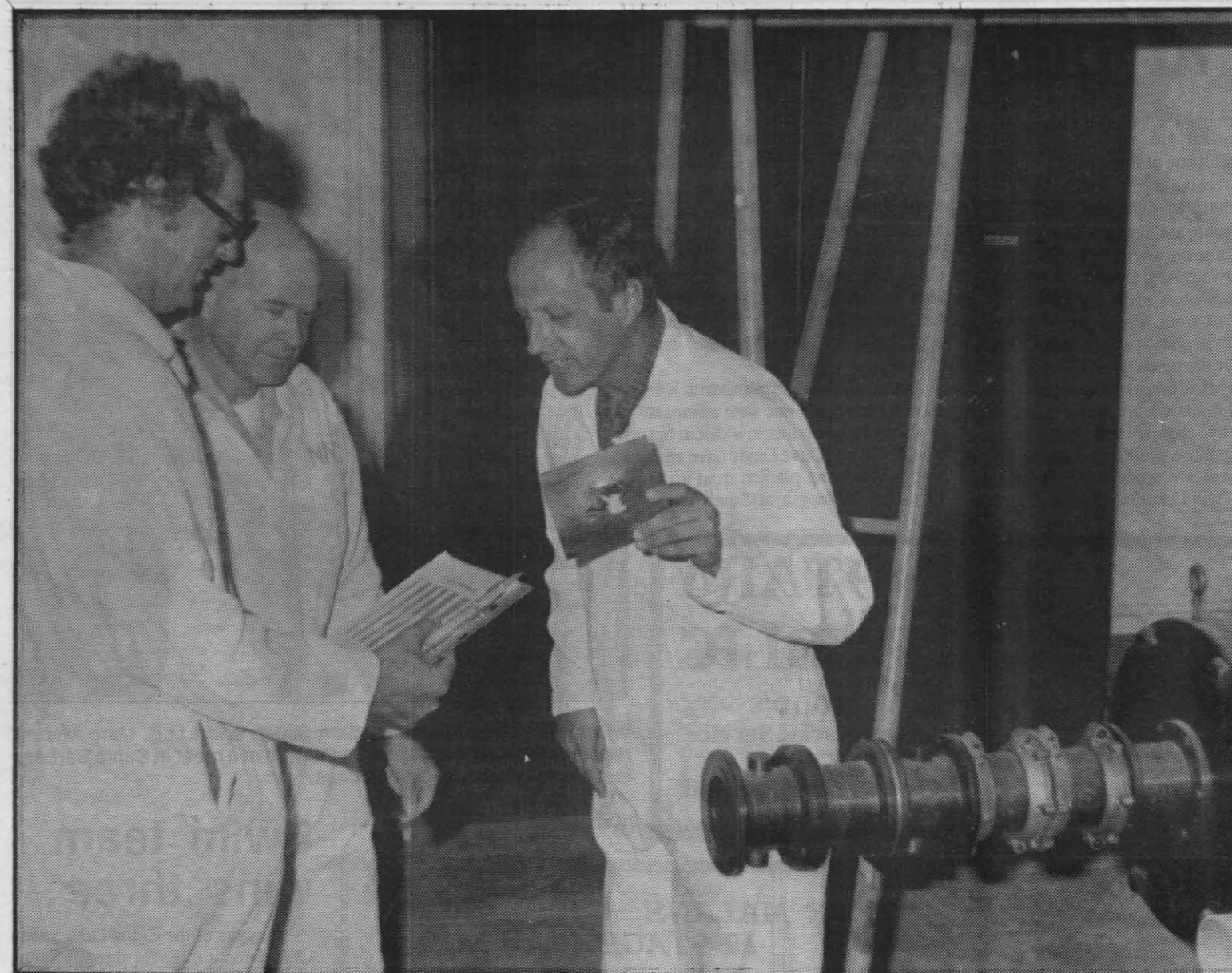
# Insensitive munitions work. . .

(Continued from Page 10)  
modeling and predictive methods. Jan Schulz, Eric Lundstrom and Ross Heimdahl have been analytically modeling the shock formation and growth to detonation and the penetration mechanics for fragment and bullet impact.

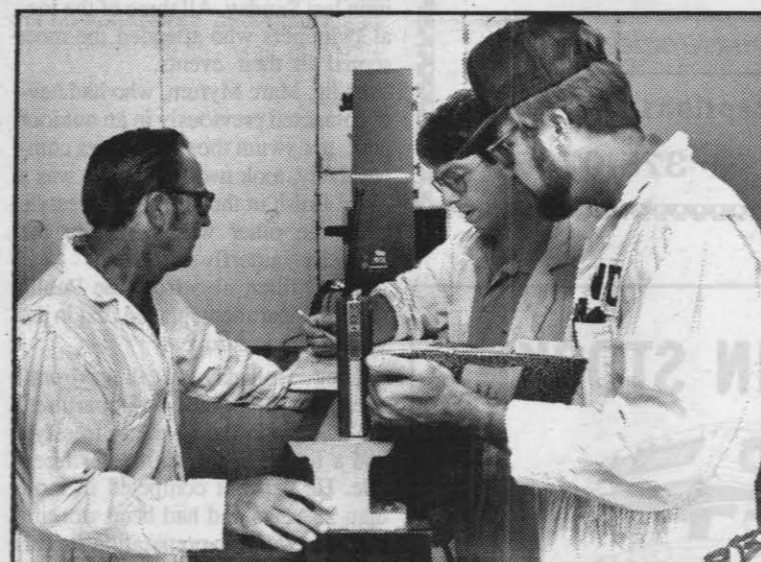
Chan Price has been modeling the burn-to-detonation transition as well as the determination of kinetics and energetics of the reactions experimentally studied by Zum and Atwood.

In addition to the analytical modeling, efforts are being made by Dolf Amster to apply pattern recognition to the voluminous amount of existing data.

The Research Department is proud of its role in the synthesis of new ingredients and the development of new energetic formulations, small scale hazards testing, analytical modeling and predictive methods. Their work, coupled with efforts in the development departments and program offices, will help provide the fleet with safer high performance weapons.



STUDYING DATA—Ross Heimdahl holds a sample target plate used with the high velocity light gas gun (in the foreground) as he, Jan Schulz and Steve Finnegan confer.



WORKING TOGETHER—Don Zum and Ken Graham of Code 3891 and R.L. Robbs of Code 62142 test shock sensitivity of explosives and propellants.

PHOTOS BY

PH3 Bob Reynolds

Personal Injury Accidents  
—No fee until Recovery—

**Gerald T. Huntley**  
Attorney At Law  
Serving Ridgecrest Since 1977

125 W. Ridgecrest Blvd

375-3111

**Budget** rent a car 921 W. Inyokern Road  
Ridgecrest, CA 93555  
619-446-7957

## WEEK END SPECIAL

21.99 per day\* compact 23.99 per day\* mid size 25.99 per day\* full size

WIN NOW! WITH EVERY RENTAL RECEIVE ONE ENTRY INTO THE FREE LINCOLN WEEK END

WIN NOW! WITH EVERY RENTAL RECEIVE ONE ENTRY INTO THE FREE ROUND TRIP TO HAWAII

COME IN FOR DETAILS

\*2-day minimum rental, 150 miles per day free mileage and additional mileage will be billed at \$0.20 per mile.

## Apple Cables...

Your source for all Apple computer cables. Mac to Epson, Mac to Hayes modem, Mac Plus to ImageWriter II, Mac Plus to LaserWriter, Mac to serial, Apple IIc to ImageWriter or other serial, Apple IIc to ImageWriter II, Mac to SCSI, SCSI terminator, SCSI extension, Apple Desktop Bus, Apple 8-pin mini-DIN, Apple IIc & Macintosh disk drive cables, Apple Talk, and more.

We also stock most computer connectors including the harder-to-find (e.g., 9mm mini-DIN and DB19S/P).

Computing Technology's  
**Computer Store**  
247 Balsam Street 375-5744

## Health woes

Alcohol is the most widely used—and abused—drug in America. In 1981, the equivalent of 2.77 gallons of absolute alcohol was sold per person over age 14. That amounts of absolute alcohol is about 591 12-ounce cans of beer, 115 fifths of table wine, or 35 fifths of 80 proof whiskey, gin or vodka. A tenth of the drinking population consumes half of the alcohol sold.