

Community Events

All interested shooters are welcome to participate in a trap shoot set on Sunday by the Sierra Desert Gun Club. For more information please call Dave White at 375-7931.

"Spirit of the Desert" is the theme of the annual December open art exhibit at the Sylvia Winslow Exhibition Gallery of the Maturango Museum. The open exhibit begins Friday, Dec. 2. There will be a reception to honor the artists on Dec. 4 in the gallery beginning at 2 p.m. A percentage of all the proceeds from the sale of this art will benefit the museum.

Pat Lilly, City of Ridgecrest council member is the featured speaker at the Desert Planters' meeting on Wednesday. Lilly will talk about "Our recycled water treasure." The meeting, open to the public, begins at 7 p.m. in the Knights of Columbus Hall. For more information on the Desert Planters or the speaker call Alice Hirsch at 375-2107.

"Young American's Christmas" will be the theme for this year's Christmas parade on Sat., Dec. 3 at 10 a.m. Ridgecrest groups are invited to enter floats in the parade by picking up an entry form at the Chamber of Commerce office.



SHOW BIZ?—Lola (Kay Zelmer), Sissy (Joan White) and Peaches (Cindy Whitehead) ham it up as they get ready for LL and Company's Remember the Bessie Brady next month in the Ridgecrest Knights of Columbus Hall. Photo by Hart Broesel

Movies

FRIDAY NOV. 25

"BLOOD SPORT"
Starring
Jean Claude Van Damme and Donald Gibb
An American Ninja becomes the first westerner to win the Kumite, a martial arts contest staged every five years.
(Action, rated R, 92 min.)

SAT. SUN. NOV. 26, 27

"RED HEAT"
Starring
Arnold Schwarzenegger and James Belushi
A loathsome Russian drug dealer manages to slip through the fingers of the Red Army's top enforcer and heads for Chicago. He is tracked down by Schwarzenegger.
(Action, rated R, 104 min.)

FRIDAY DEC. 2

"SHAKEDOWN"
Starring
Peter Weller and Sam Elliott
A legal aide attorney and a renegade detective team up to find the truth behind the fatal shooting of an undercover cop by a drug dealer.
(Action, rated R, 97 min.)

Prices vary
Starting Times: Matinee 2:00 pm, Evening 7:00 pm
Box Office Opens: Matinee 1:30 pm, Evening 6:30 pm

PGI ALL AGES ADMITTED
General Audience
PGI ALL AGES ADMITTED
Parental Guidance Suggested
R1 RESTRICTED
Under 17 Requires Accompanying Parent or Adult Guardian

Bambi delayed

Due to a command function, the movie *Bambi* will not be shown on Nov. 30 as scheduled. It will be shown on December 4. For further information, call Information, Ticket & Tour at NWC ext. 2010.



	Max	Min	Gusts
Thurs.	63	48	44 knots
Fri.	63	39	22 knots
Sat.	63	34	8 knots
Sun.	66	23	8 knots
Mon.	70	24	7 knots
Tues.	72	41	10 knots

All measurements are made at Armitage Airfield.

Melodrama returns to IWV

There are only four Ridgecrest performances scheduled for the new LL and Company production of *Remember the Bessie Brady*. Dinner-theater performances are planned for the Knights of Columbus Hall on Dec. 9 & 10 and Jan. 13 & 14, according to Linda Lou Crosby.

The new melodrama is based on

"true rumors" and writer/director Crosby's fascination with events surrounding Owens Lake before the turn of the century. The play takes theatergoers back to the 1870s when two steamboats, the *Bessie Brady* and the *Molly Stevens* plied the waters of Owens Lake hauling silver shipments from Cerro Gordo mines.

With characters such as Egmont Cadwater (the villain, of course), Farmington Duckworth (hero) and Armadillo Weedpatch the evening should be interesting.

Tickets are \$18.95 per person for the dinner and show. Reservations are a must. For reservations call 446-2708.



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NOVEMBER 30, 1988

NWC OFFICERS CLUB 08:00 - 15:30

NWC Rocketeer

(Naval Weapons Center, China Lake, California 93555-6001)

Vol. XLIII, No. 44/November 25, 1988

Sewage woes

NWC chemists develop one potential solution

Mundane though it may be, cleaning the sewage pipes aboard an aircraft carrier is an expensive and time-consuming task.

Finding a more cost-effective and faster method for this task could help the Navy channel dollar and manpower resources into other areas. So the Naval Weapons Center's Polymer Science Branch in the Research Department is developing a new technology for the controlled release of citric acid into the pipes which should reduce the hydroblasting currently required.

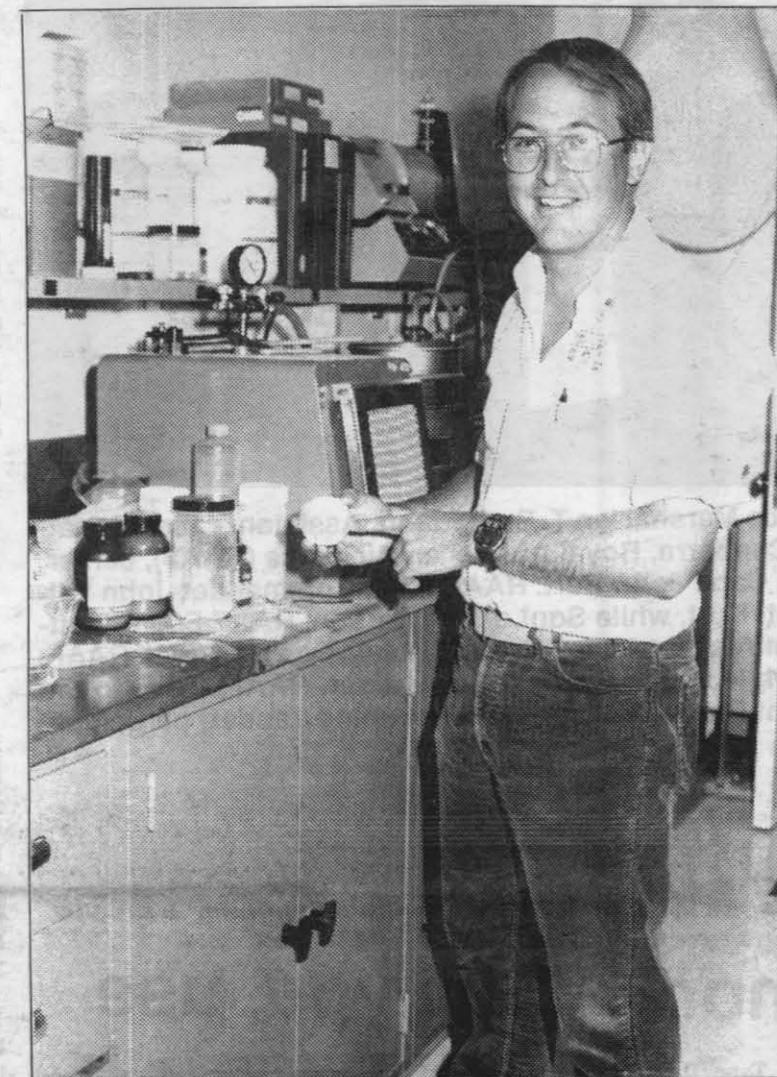
Every 12 to 18 months, thirty days and approximately \$150,000 is expended to clean a carrier's pipes. The seawater used in all Navy ships' collection, holding, and transfer (CHT) systems interacts with urine, creating a build-up of calcium carbonate and other salts. Calcium carbonate is the same substance that builds up in water heaters using hard water.

Sulfamic acid is known to dissolve the encrusted salts, but the Navy has not had an effective method of dispensing the acid into the ships' CHT systems.

Fleet ships now receive powdered sulfamic acid in perforated bags that must be periodically checked and removed and replaced manually. Besides being one of the least popular jobs aboard ships, replacing the bags is potentially hazardous because the acid can be a skin irritant. The bags contain other powdered substances, eg., deodorants and disinfectants, so it is difficult to tell when the bags need to be replaced.

As a result, the amount of acid released into the CHT systems is often too low, and the pipes quickly clog.

The Polymer Science Branch has developed a hockey-puck-sized briquette made of citric acid with



SHAPED LIKE A HOCKEY PUCK—Mike Hasting points to a briquette designed by the Polymer Branch to prevent calcium buildup in the Navy's onboard sewage systems.

Rogerson earns TD Award for his RTR contributions

Exceptional contributions to the field of dynamic real time radiography (RTR) brought the Naval Weapons Center's Technical Director's Award to Donald Jon Rogerson recently.

In nominating Rogerson, Dick Boyd, head of the Range Department, said, "Since the mid-1960s Rogerson has been developing, designing and improving the RTR concept and associated engineering here at NWC. It has proven to be an extremely valuable engineering tool to determine internal ballistic behavior of solid propellant rocket motors during static testing firing."

Gerry Schiefer, NWC technical director, praised the RTR work done by Rogerson, noting it was easy to show why solid rocket motors didn't

behave properly when problems were viewed with this technology. Schiefer made the surprise presentation to Rogerson at the Range Control Center as many of his co-workers looked on.

Rogerson said no one won this award alone as he praised the work of those who had joined in the venture over the years and the managers who let him continue the interesting work.

In his letter of nomination, Boyd said, "over the past two decades, Rogerson has used this equipment in literally hundreds of test situations. Many of the missile systems developed at NWC have benefitted significantly from the availability of this unique test technique." Some of the systems benefiting from RTR

Seapower briefing next week

When the five-man Navy team makes its presentation of Soviet Seapower next week in the Naval Weapons Center Theater, they will cover, during two six-hour classified sessions, information of the evolution of the Soviet Navy, its mission and doctrine along with data on the strategic employment of the Soviet Navy.

The presentations, set for an 8 a.m. start on Thursday, Dec. 1 and Friday, Dec. 2, are multi-media events covering the Soviet nation, its naval personnel, its equipment and Soviet Naval operations.

NWC employees with a SECRET clearance who are interested in attending, but have not been contacted about a ticket, should call their directorate administrative office to find out who in their department has tickets.

Additionally, anyone with a ticket who is unable to attend is asked to return the ticket to the person who gave it to them so that seat in the theater can be reassigned for the day.

The evening session on Dec. 1 starts at 7 p.m. in the theater and is free. Seating is on a first-come, first-served basis. Dependents of China Laker and employees unable to attend the classified versions are especially encouraged to attend the condensed two-hour evening presentation.



WELL DONE!—Donald Jon Rogerson receives the Technical Director's Award from Gerry Schiefer, NWC Technical Director, for his work on dynamic real time radiography. Photo by Steve Boster

have been the Tomahawk cruise missile and vertical launch anti-submarine rocket along with the Polaris and Trident submarine ballistic missiles.

Boyd added to the letter, "During this period he has continually enhanced the equipment in terms of capability, ruggedness, ease of use and flexibility. As a result... he has become a nationally recognized expert and received numerous requests to aid other DOD agencies and contractors in application of this technology."

A China Laker since 1966, Rogerson recently received the 1987 Best Paper Award from the Aerospace Division of the American Society of Mechanical Engineers.



PLAQUE RECIPIENT—Air Vice Marshal Ian T. Sutherland, Assistant Chief of Staff (Engineering), Dept. of Air, Canberra, Royal Australian Air Force (RAAF), center, receives a NWC plaque from Capt. John Burt. RAAF Wing Commander John Wilsher is standing next to Capt. Burt, while SqnLdr Ian Watson, RAAF F/A-18 software coordinator at NWC admires the plaque. Group Captain Dennis Street, RAAF, is looking on from far left, while Group Captain Ray Lauder, RAAF, (back to the camera) and Flight Lieutenant Darcy Brooker, RAAF, (behind Lauder) participate in the welcome.



NWC's Wellness Corner

Don't eat more than you use

Here is another of the major findings and recommendations of The Surgeon General's Report on Nutrition and Health:

Energy and weight control: Achieve and maintain a desirable body weight. To do so, choose a dietary pattern in which energy (caloric) intake is consistent with energy expenditure. To reduce energy intake, limit consumption of foods relatively high in calories, fats, and sugars and minimize alcohol consumption. Increase energy expenditure through regular and sustained physical activity.

People are considered overweight if their body mass index, or BMI (a ratio of weight to height) exceeds the 85th percentile for young American adults (approximately 120 percent of desirable body weight); they are considered severely overweight if their BMI exceeds the 95th percentile (approximately 130 percent of desirable body weight).

Overweight individuals are at increased risk for diabetes mellitus, high blood pressure and stroke, coronary heart disease, some types of cancer, and gallbladder disease.

More than a quarter of American adults are overweight. Although evidence suggests a genetic component to the tendency of many people to become overweight, patterns of dietary caloric intake and energy expen-

diture play a key role. Sustained and long term efforts to reduce body weight can best be achieved as a result of improving energy balance by reducing energy consumption and raising energy expenditure through physical activity and exercise.

Maintenance of desirable body weight throughout the lifespan requires a balance between energy (caloric) intake and expenditure. Weight control may be facilitated by decreasing energy intake, especially by choosing foods relatively low in calories, fats and sugars, and by minimizing alcohol consumption.

Upcoming lectures
Handling Holiday Stress: Dr. Rita McCullough Stanley will lecture on this topic Dec. 6 from 10 to 11 a.m. in Mich Lab Room 1000D. The class will explore factors contributing to holiday stress, and offer practical suggestions for reducing holiday stress and enhancing holiday joys.

Food Labels and Wellness Wisdom: Lorraine Baty, R.D., will address this topic Dec. 8 from 3 to 4 p.m. in Mich Lab Room 1000D. The interpretation of food label information following principles of nutrition will be presented. Participants will practice label interpretation techniques using given guidelines.

Limited library work may be contracted

With a goal of extending library operating hours and expanding services, the Technical Information Department is considering the use of contractor personnel to support some Center Library operations.

Managing to Payroll (MTP) constraints prohibit the hiring of additional Civil Service employees, so the department has proposed to Center management a trial arrangement in which a number of library operations would be carried out by contractor personnel. A core of experienced Civil Service library professionals would retain overall responsibility. Contractor personnel would be obtained under a contract already in place for portions of the Center's Technical Library operations.

Some Library patrons have

expressed concern that a change in the Center Library's manner of operating might affect the community-oriented service to which they're accustomed. Steve Sanders, head of TID, points out that the department has extensive experience with this type of arrangement, and has had consistent success in integrating contractor support into its functions.

"In fact," says Sanders, "if we do contract for support in the Center Library, we hope to be able to extend hours of operation and resume some services we had to curtail in recent years. We're proud of the Library's outstanding reputation. We think a combination of dedicated Civil Service and contractor personnel can sustain the high standards of service and responsiveness Center Library patrons have come to expect."

ASPA sponsors visit of L.A. Times writer

Frank del Olomo, a *Los Angeles Times* editorial writer, will be the guest speaker when the American Society for Public Administration's (ASPA) East Kern Chapter meets on Friday, Dec. 2 in El Charro Avitia at 11:30 a.m. He will speak on the importance of the growth in the Hispanic community over the next 10 years in Southern California.

Del Olomo, a *Times* staffer since 1971, won the Pulitzer Prize Gold Medal for Meritorious Public Service based on a 1984 series "Southern California's Latino Community." He also received an Emmy Award for

distinguished achievement in writing, for a 1976 KNBC-TV documentary "The Unwanted."

Lunch will be from the menu. For reservations please call Steve Boster at NWC ext. 3354 or Ann Kuratori at NWC ext. 2738 by close of business on Nov. 30.

Following the luncheon session, an informal seminar, for invited participants, will discuss the social, economic and educational aspects of life in the Indian Wells Valley for Hispanics. Anyone interested is asked to call Fred Nathan at 446-2157 for additional information.

Cerro Coso professor speaks on South American problems

Professor Leo Girardot, professor of History at Cerro Coso Community College, will be the guest speaker at the Fall dinner meeting of the Sigma Xi. The meeting will be held at the Officers' Mess on Wednesday, Nov. 30 at 6 p.m.

Girardot will speak about "South America — Land of Confusion." The presentation will describe South America's cultural heritage of both anthropologic heritage and colonial impact. South America remains an enigma to most in the U.S. What makes South America run and why the road to the future is going to be difficult will be the subject of the talk.

Dinner tickets may be obtained for \$10 per person from the following individuals: Brett Borden, NWC ext. 1417; Don Decker, NWC ext. 3247; Gary Hewer, NWC ext. 3219; Mike Stringham, NWC ext. 1033; Dave White, NWC ext. 3089; Warren Willman, NWC ext. 3124 or Dr. Richard Dodge, 375-5001 at Cerro Coso. Tickets may also be obtained from the chapter officers Harry Hurt, president, NWC ext. 1576; Frank Wu, vice-president, NWC ext. 3632; Brett Borden, secretary, NWC ext. 1417; Carey Schwartz, Treasurer, NWC ext. 1442 and Josephine Covino, past-president, NWC ext. 3381.

Code 36A established at NWC

To provide uniformity in the application of production engineering and ensure utilization of appropriate disciplines in weapons programs, the Engineering Department has established a Production Support Office (Code 36A).

Headed by Randall Langham, the office will work with program managers to assist in and coordinate the management of the production part of major weapon programs which are in the development stage or are in full production.



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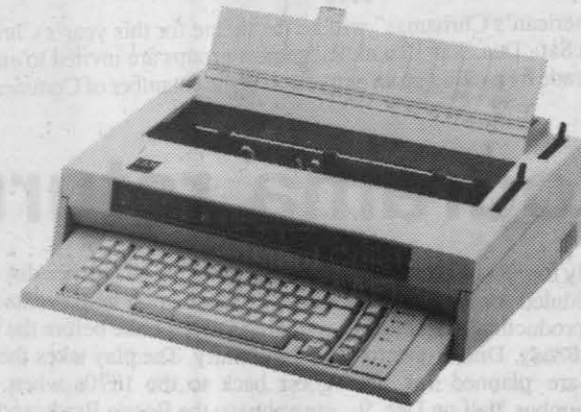


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Retirement has its limits

Thinking about retiring? Or perhaps thinking about tapering off work gradually with a part-time job? If so, there are some facts you should know about Social Security.

To begin with, you can receive your full retirement amount at 65, or a permanently reduced amount as early as 62. For example, the reduction is 20 percent at 62, 13 1/3 percent at 63 and 6 2/3 percent at 64.

If you're past 65 when you apply, you'll get a slight "bonus." Your monthly check will be increased by three percent for each year (1/4 of 1 percent for each month) that you did not get a benefit between 65 and 70. (The credit is more if you reach 65 after 1989.)

Some Social Security work credits are needed before you can get benefits. For example, if you are 62 in 1988, you need at least nine and a fourth years of coverage (37 "quarters of coverage") to be insured.

The amount of your monthly check will depend on your average covered earnings while you worked. A worker who retires at 65 in 1988, after having maximum covered earnings most years, can expect to receive \$838 a month. If he or she has eligible dependents, payments to the family will be substantially more.

Once benefits start, payments will increase automatically to keep pace with annual rises in the cost of living. The benefit increase will be tied to the increase in either prices or average wages, depending on the status of the economy.

Your retirement checks may be subject to federal income tax if you have substantial outside income in addition to benefits. In no case, however, will you have to pay tax on more than one-half of the benefits. For more information on this, contact the Internal Revenue Service.

You and any dependents who are at

least 65 have Medicare protection to help pay costly medical bills. You are eligible for Medicare even if you plan to keep working and not receive monthly checks at this time. You will, however, need to apply for it.

You can have some earnings from work and still receive Social Security checks. If you were 65 or older in 1984, you can earn up to \$8,400 and receive all benefits due, \$6,120 if you are under 65; and no limit if you are 70 or older. If earnings exceed the annual exempt amount, \$1 in benefits is withheld for each \$2 of earnings above the exempt amount.

If your plans are uncertain or you have questions, the best thing to do is "inquire before you retire." Phone the Ridgecrest Social Security Office at 446-2050. The people there will be glad to help you.

By John Powers
Social Security Resident Representative

Minority recruiting sought

Washington (NES)... Navy Recruiting Command's Senior Minority Assistance to Recruiting (SEMINAR) program offers black and Hispanic military members a chance to return home without using leave or personal finances.

SEMINAR volunteers return to their hometowns on a 20-day temporary duty basis and help recruiters establish and renew Navy contacts with community leaders such as edu-

cators and professional members.

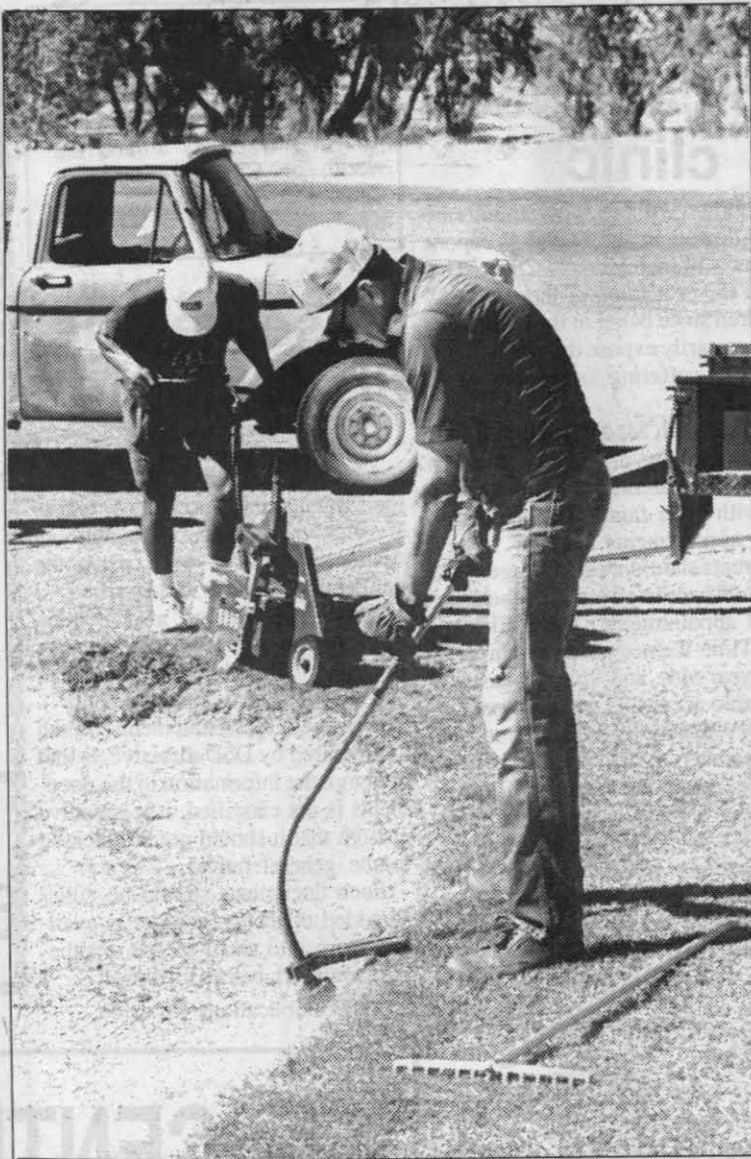
A major obstacle in minority recruiting has been a perceived lack of opportunity for advancement in the Navy by members of minority communities. Temporary duty performed by SEMINAR volunteers in their hometowns dispels this misconception by graphically illustrating career opportunities the Navy offers minorities.

SEMINAR also provides exposure to the recruiting field for people inter-

ested in recruiting as a career choice.

Temporary duty is performed in conjunction with normal rotation and, with NMPC approval, will be included in permanent change of station (PCS) orders. SEMINAR participants must be in paygrades E-6 through E-9 or W-2 through 0-6.

If you are interested, refer to COMNAVCRUITCOMINST 1300.1C for more information or call Navy Recruiting Command at (202) 696-4880, AV 226-4880.



GOLFERS WORK?—Members of the China Lake Golf Club held a volunteer work day recently to improve the looks of the golf course on board the Naval Weapons Center. A couple of golfers are seen working on a green and sand trap. Their volunteer efforts help make the course a better place to play golf.

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New gift ideas!

Searching for a thoughtful, but inexpensive holiday gift? The California Department of Motor Vehicles suggests a personalized license plate instead of the usual perfume, necktie or bathrobe.

DMV's Environmental License Plate (ELP) program allows anyone to order a personalized license plate as a gift for a friend or relative. The plates usually take about six to eight weeks to process or deliver, so DMV advises that they should be ordered now to be available for holiday giving.

The license plates cost \$36 in addition to regular registration charges and an extra \$20 each time the motor vehicle registration is renewed. For those who have everything, including a set of personalized plates, a third plate for display only may be ordered for home or office at a one-time charge of \$35.

The extra fees paid might also be considered a holiday gift to the environment as they help support a variety of California environmental programs.

New Chief of Naval Personnel sets Navy readiness as goal

WASHINGTON (NES)—Vice Adm. Jeremy "Mike" Boorda became the chief of naval personnel Aug. 8. That in itself is quite a success story.

"The Navy has been real good to me," he said at a September editorial board. "You're looking at a youngster who essentially ran away from home when he was 16, joined the Navy and ended up as chief of naval personnel. That's not a bad track record."

Boorda enlisted in the Navy in 1956 and was a petty officer first class when, in 1962, he was selected for commissioning. Today, he's a three-star admiral in charge of the Navy's personnel needs, and he wants to add to that track record.

"I hope that when my time as CNP is all done," he said, "someone will be able to say, 'Hey, that guy really cared about sailors, and everything he did had that as a focus: What is this going to do to the real person out there?' I think you can do a credible job in my job by simply keeping that foremost in your mind."

Boorda brings to his job as chief of naval personnel a number of professional and personal goals. "But," he said, "my real goal is to improve Navy readiness by making people

feel better about what they do and having the term 'the Navy takes care of its own' really mean something. And there's a whole bunch of things to do that."

Retention plays a large part in readiness, and according to Navy surveys, family separation is the No. 1 reason Navy people leave the service. Boorda is a strong supporter of improving the quality of life for Navy families as a readiness issue, but he noted that life in the Navy has always entailed separations from family and friends.

"And we ought to stop apologizing for that," he said. "People in sea-going ratings and sea-going designators in the Navy have to understand that family separation is part of the business. And if that doesn't fit with their life, it's not going to work. It's what we do. It's why the Navy is as strong as it is and as effective as it is in the world...But there are lots of things we can and must do for families to make separations more bearable."

The strain of prolonged separation has been eased considerably by the CNO's emphasis on managing the tempo of personnel deployments and operations, Boorda said. He also

credited Family Service Centers for all they do to help, and stressed that adequate pay is absolutely essential in making family separations endurable.

"If your family doesn't have the money they need to survive, and you are gone, that puts an unbearable problem on the family. And that makes family separation mean something entirely different...But we can't make family separation go away," he said. "Navies go to sea, airplanes go flying. That's really what this is all about."

Part of Boorda's job is to ensure the Navy has enough people with which to go to sea and to go flying. "The bottom line in our business is readiness," he said. "And you don't get readiness from efficient robots. You get readiness from people who are happy about what they're doing and are well treated...so we're trying to do a lot of things to try to make people's lives better."

He stressed that this year's Defense Authorization and Appropriations bills, recently approved by Congress and signed into law by the President, contain many positive features directly affecting Navy men and women.



FROM AROUND THE WORLD—Rear Admiral J.M.T. Hilton, RN, president, Ordnance Board, United Kingdom discusses munitions safety with Capt. John Burt during his visit here on Monday.



ENTERTAINER OF THE YEAR—Doree Taylor was made the Hollywood/Bob Hope USO "Entertainer of the Year" for 1988 and will be the featured performer at the NWC All-Hands Christmas party.

Taylor to perform at All-Hands gala party

Tickets sales have begun for the annual Naval Weapons Center all-hands Christmas party on Dec. 9. Set for the Enlisted Mess with a 6 p.m. start, the party this year will feature a three-meat buffet and dancing to the music of Doree Taylor and her group "Class Act."

Lt. Honor Rosar, RMCS R.S. Fulcher, Command Master Chief Frank Jones and Ens. Richard Chapman will be selling tickets. Also, tickets will be available from Lt. Jg. Lynn Okamoto and ACCLP. Hillewaert along with ACI Kimberly Rusk. In addition, the NWC Public Affairs Office will be selling tickets.

Enlisted personnel will pay \$7.50 per person while chief petty officers pay \$10.50. Officers and civilian employees will pay \$12 per person. Doree Taylor sings pop, oldies, ballads and Broadway tunes during her show. This year she was named the Hollywood/Bob Hope USO "entertainer of the year." SAhe has performed at USO shows since 1982. The Missoula, Montana native was at the National Training Center, Fort Irwin, earlier this year a USO show.

There will be door prizes for attendees.

NEW OIC—Lt. Jerilyn A. Begley makes some brief remarks as she relieves Lt. A.L. Thompson as officer-in-charge of the Personnel Support Activity Detachment (PSD) at China Lake last week. Photo by PHAA Cary Brady



The new OIC reported to NWC

Thanksgiving

At this time of feasting and festivities, we'd like to express our thanks for your friendship. A happy and healthy holiday to all.

The
Chalfant Press
Staff





Divine Services

Temporary Schedule for Protestants
 Sunday Worship Service (NWC Theater) 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. Officers' Christian Fellowship
 Christian Military Fellowship

Islamic
 Jumaa Prayer (Friday in Annex 4) 12:00 p.m.

Temporary Schedule for Roman Catholics
 Sunday Mass (NWC Theater) 9:00 a.m.
 Daily Mass (1008 Blandy)(Monday thru Friday) 11:35 a.m.
 Confession (Monday thru Friday) any time by appt.
 Confession (Sunday) (1008 Blandy) 8:15-8:45 a.m.
 Religious Education Classes (Sunday)(Chapel Annexes) 10:30 a.m. (September thru May)

Jewish
 Weekly Services (Friday - Chapel Annex 4) 7:30 p.m.
 Adult Hebrew Lessons (Saturday in Chapel Annex 4) 9:00-10:00 a.m.
 Sabbath School (Saturday - Chapel Annex 4) 1:00-4:00 p.m.

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Thanksgiving Remembered

Those of us who hail from Easter or Midwestern states may share warm recollections of having willingly driven considerable distances on cold, purple-cast days to sit down with reunited family at tables laboring under the weight of plump, golden-roasted turkeys and side dishes of candied yams, tangy, brilliant-red cranberries, salads and pies whose spicy ingredients reflected the fall season of harvest.

Let us give thanks to God our Father for all his gifts so freely bestowed on us.

Golden leaves flying about yards like dervishes! Rust-brushed foliage with traces of snow applied by nature in random patterns. Blasts of chilly November wind whistling defiantly in ears, as steaming dishes covered with foil reflecting the hazy, pale sky were carried hurriedly from car to kitchen in a seemingly endless succession. Hugs and kisses distributed liberally, but sincerely, among the arrived and the arriving. Love revisited and experienced once again.

For the beauty and wonder of your creation, in earth and sky and sea, we thank you, Lord.

Joyous days filled with delectable aromas winding their way from kitchens cluttered with busy grandmothers, moms and aunts who met the challenge of waiting, impatient palates with offerings of seasonal specialties created on a "once a year" basis. Orate crystal punch bowls with frothy, spirited eggnog to dispel

the cold and welcome the glow of tingly cheer.

For our daily food and drink, our homes and families, and our friends, we thank you, Lord.

Football scores blared loudly from televisions whose programming vied for the broken attention of half-hearted viewers who found themselves on constant pilgrimage to the kitchen to sample and savor the fruits of culinary work. Grownups absorbed in semi-serious conversation; children of varying ages dashing around corners in mad play; no one disturbed by the ever-arriving groups of relatives bearing still more to be added to the bounty of the feast.

For minds to think, and hearts to love, and hands to service, we thank you, Lord.

Animated eating gave way to quiet, uncomfortable satisfaction, as everyone attempted the colossal task of "trying some of this and that." Warm company, cozy feelings of togetherness, as darkness settled on the day without our knowing it.

For health and strength to work, and leisure to rest and play, we thank you, Lord.

And, underneath it all, there was a reason, a wonderful reason, and we thanked Him in our own words, as awkward as they were, or in silent conversations of gratitude. So, also, on Thanksgiving Day, in the beauty of our desert community, we give You thanks, Father, for the great mercies and promises given to us, Your children in Christ Jesus our Lord!

Lcdr. S.A. Casimano, CHC, USN
 Command Chaplain

Lab Award winners to be honored

Winners of the Michelson Laboratory Awards for 1988 will be announced at a luncheon in honor of the recipients at 11:30 a.m. on Dec. 9 at the Naval Weapons Center's Commissioned Officers' Mess.

Reservations for the awards lunch can be made by calling NWC ext. 2018 or 2592 no later than 4 p.m. on Monday, Dec. 5. The \$6 per person cost includes the buffet lunch.

The award recognizes technical excellence based on outstanding performance in individual duties. The award, established in 1966, is complementary to the Center's highest local award, the L.T.E. Thompson Award.

Pet forms are in the mail

Housing Says... All Naval Weapons Center residents will soon receive a letter and a Pet Registration Record form through the mail. NAVWPECN Instruction 5820.31 states all pets must be registered with the Housing Office. All residents are urged to fill out the form and return it to the Housing Office whether or not you have pets.



Anyone who does not return this form will be contacted by the Housing Office to do so. Your cooperation will be greatly appreciated.

For additional information please call Amy Mansfield at NWC ext. 3411-324.

MOWC sets next meeting

Do you know the worth of your antiques? Joyce of Joyce's Collectibles and Antiques can help answer this question at the November 29 meeting of the Military Officers' Wives Club at Two Sisters Restaurant in Inyokern.

A social hour begins at 6:30 p.m. The dinner, a Mexican buffet, will be followed by a discussion of antiques and collectibles by Joyce.

MOWC is open to all wives of active duty and retired officers. Make your reservation by calling Nancy Allen at 446-4347.

Well children not allowed in clinic

Children without appointments are not allowed in the Naval Weapons Center's Branch Medical Clinic. This is for the protection of those healthy children since being in the clinic may unnecessarily expose them to patients who are suffering from contagious conditions.

The Branch Medical Clinic's staff cannot care for unattended children while their parents are being seen or are with other family members who have appointments.

Parents should make arrangements for child care in advance of the scheduled appointments. The Children's Part-Time Center accepts infants to four-year-olds and space is usually available according to clinic personnel. NWC Day Care Center staffers ask parents to call in advance to ensure space is available before bringing a child there. Rates range from \$1 to \$1.15 per hour.

Questions about "drop-in" day care should be addressed to the Moral, Welfare and Recreation Division at NWC ext. 2653.

Trio to sing at WACOM

Special Christmas songs will be performed by the Present Co. Trio at WACOM's December 13 meeting.

Reservations for the luncheon meeting (and for babysitting) can be made by calling Sue Moulton, 375-5364. The luncheon will begin at 11 a.m. in the Mojave Room at the Officers' Club.

The Trio has performed all over Southern California. They have appeared in Christmas concerts at the Dorothy Chandler Pavilion, the Biltmore Hotel and the Arco Plaza. Next spring they will be the featured vocalists with the Huntington Park Symphony Orchestra.

Navy News airs

Look for Navy News This Week, the Navy's weekly broadcast of Navy news around the world, on Channel 3 (Desert Cable TV) Friday evenings at 7 p.m.

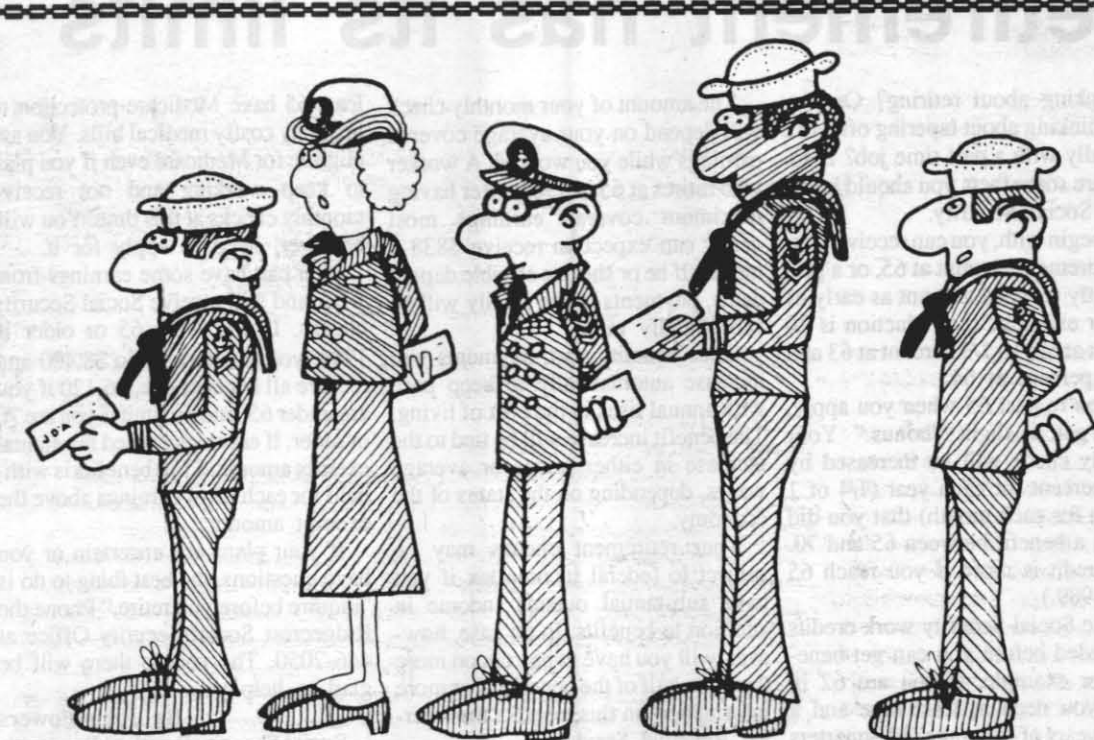
Observe the disposal note

Several people have recently questioned why certain NWC publications, such as the Current Technical Events memorandum, contain a destruction notice—even when the publication itself is unclassified.

These publications also contain limited-distribution statements (for example, "Distribution limited to U.S. Government agencies only"). The basis for these statements, which are required by DoD directive, is that although the information in the documents is not classified, it is sensitive enough that it should not be released to the general public.

Such documents should be either shredded or, if no shredder is available, torn into small pieces or otherwise defaced before disposal.

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Tower addresses 600 ship Navy

PASCOUGALA, MISS (NNS)—The time for debate is over, a 600-ship Navy is now a critical part of America's national security, according to former Senator John Tower.

Tower (R-Tex), an arms negotiator for President Reagan in 1985-1986, has been said by sources close to Vice President Bush to be the favored candidate for defense secretary.

Speaking at the recommissioning ceremony of USS Wisconsin Oct. 22, Tower said the security of the United States depends on keeping the battle far away from our shore—and close to the adversary's and a strong Navy is needed to do that.

"The acquisition and maintenance

of the 600-ship Navy is now national policy, and it's enlightened policy," Tower said. "The Navy is essential to the welfare—indeed the survival of the American people."

"The Wisconsin and others of our fleet are forward deployed, prepared to go into harm's way to protect your interests and those of the free world," he said. "It is incumbent on you as citizens to make sure that we continue to maintain the 600-ship Navy and even beyond that if the threat to our security and our welfare require it."

Tower, a master chief petty officer in the Naval Reserve, delivered the principal address in ceremonies that made the 45-year old battlewagon an operational unit with the U.S. Atlantic Fleet.

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by Connie Barr

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B-2 stealth bomber unveiled in Palmdale

The B-2 bomber—also called the advanced technology bomber—was unveiled Tuesday in Palmdale. It will become part of the nation's deterrent forces and is expected to serve well into the next century.

Northrop Corp. is building the bomber and rolled the plane out at Air Force Plant 42 in Palmdale, Calif. The aircraft resembles the "Flying Wing" of the 1940s. It is approximately 17 feet high and 69 feet long and has a wingspan of 172 feet. Officials said the craft is slightly longer than an F-15 fighter, yet has almost the wingspan of a B-52 bomber.

The B-2 will carry a crew of two. In comparison, the B-1B bomber carries a crew of four, and the B-52 six. Four General Electric F-118 engines power the aircraft. Plans call for 132 bombers to be built. Air Force spokesmen said the first six aircraft will be used for flight testing at Edwards Air Force Base.

Guralnik re-creates life; music of Frederic Chopin

"Chopin Lives!" is a wedding of theater and music in which actor-musician Robert Guralnik re-creates the life and music of Frederic Chopin.

Appearing on Tues., Dec. 6 at the NWC Theater at 7:30 p.m., the concert is \$7 for regular admission and \$5 for persons over 65, under 21, and active duty enlisted military. Tickets are available at The Music Man, the Maturango Museum, and The Art Buffet.

Dressed in 19th-century attire, Guralnik will portray Chopin in the midst of his crises and confusions, weaving in performances of many of Chopin's greatest compositions. This intimate portrait of Chopin—with his humor, humanity and musicianship—provides a most unusual and rewarding evening.

Gifts galore at Art Shop

Santa's Art Shop is scheduled to open Saturday and Sunday, Dec. 3 & 4, at the Desert Empire Fairgrounds. Open from 10-5 on Saturday and 10-4 on Sunday, the arts and crafts fair is \$5.00 (admission for those under 12 is free). Parking is free.

Over 200 artists and craftspeople will offer Christmas gifts galore. Select from original artwork, pottery, needlework, jewelry, wooden toys, stained glass, Christmas ornaments, toys, woodworking and live plants.

COM closed today, Monday

Officials of the Commissioned Officers' Mess (COM) has announced that it will be closed today due to the Thanksgiving holiday. On Monday, Nov. 28, the COM is closed to allow staff training on Monday.

Donor thanked

Eleanor Sizemore expresses the following:
"I was told I had an anonymous donor for 40 hours of leave under the leave recipient program. I would like to thank this person so very much for their generosity. Sincerely, Eleanor."

AAUW has panel

Presented by the American Association of University Women, **A School Board Candidates' Panel**, will be held Monday, Dec. 5 at 7 p.m. at the Knights of Columbus Hall at 725 W. Ridgecrest Blvd. The public is invited to attend. The AAUW urges attendees to "Bring your questions for the candidates and then vote on Dec. 13."

Patents help inventors and Center

Approved patents take time and careful planning; can benefit both the inventors and the Center

"Center scientists and engineers can benefit China Lake, the government and themselves by fully participating in the patent process," said Mel Sliwka, Naval Weapons Center (NWC) patent attorney.

A patent is defined as a grant to the inventor by the government of a 17 year monopoly to exclusively make, use or sell the invention in the United States in exchange for a complete description or disclosure of the invention.

Due to the Technology Transfer Act of 1986, government bodies are now authorized to license their patents and charge royalties for use of the patent license. The monies raised return to the agency and to the original inventor(s) for their personal use.

The portion of the funds raised as a result of the commercial use of NWC inventions will be earmarked for internal research, according to Sliwka.

One government inventor at the National Institute of Health is already receiving the maximum \$100,000 per year for commercial use of his patent, according to Sliwka. "We predict that four patents we are presently processing should result in \$3,000 to \$5,000 per year for each of several Center inventors," he said.

"Due to the talent and creativity at NWC, our office sees many patent applications," he added. "The Center's Invention Evaluation Board (IEB) is called upon to set priorities and determine suitability of patents."

The NWC Patent Office has added staff in the past few months and expects to add one more attorney soon. Sliwka and his staff are working towards processing patent applications in under one year. The process can go more smoothly if patent applicants understand the process.

"After an inventor submits a disclosure (explanation of new invention) to the NWC Patent Office, it is reviewed by an attorney and returned to the originating department for independent evaluation," explained Sliwka. "The IER then contacts the department head for a priority assessment and makes its filing determination."

"If a filing decision is reached, the patent attorney prepares the application after consulting with the inventor. One time-consuming task, the final preparation by a draftsman, can take up to two months," he said. "After the patent application is sent to the U.S. Patent and Trademark Office (PTO), it may take two to three years for a patent to be issued by the PTO."

Timing can be a critical ingredient in the process. The Patent Law defines a new invention as one which has not been described in any printed publication more than one

year prior to the filing; not patented in a foreign country more than one year prior to filing; not in public use more than one year prior to filing; and not for public sale more than one year prior to filing.

"This means, for example, that once an invention is described in a professional journal, we only have one year to file it," explained Sliwka.

Center inventors can assist the patent process by:

—Alerting the patent office quickly so that the one year statutory bar is not a problem;

—Reviewing the patent's paperwork quickly;

—Moving the patent disclosure through the departmental review process quickly;

—and cooperating with the patent attorneys.

Applying for, submitting and receiving patents can be a rewarding experience for the inventors, for the Naval Weapons Center and for the government. The NWC Patent Attorney's Office is located on Nimitz Avenue next to the Marine Aviation Detachment Building and is here to manage the patent process. Call NWC ext. 3733, for more information.



INVENTOR AND ATTORNEY—Joe Nissley, left, explains the techniques behind the optical bore sight tester he and his colleagues are developing to Steve Church, a patent attorney. The patent office works closely with Center scientists to manage the patent process.

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AN AWARD FROM THE QUEEN—SqdnLdr. David Walker, center, shows off the Air Force Cross he has just received from Queen Elizabeth. His mother, left, and wife, Nicky, were present for the ceremony. Walker is the RAF exchange officer at VX-5.

RAF exchange pilot receives Air Force Cross from Queen

In a traditional ceremony presided over by Queen Elizabeth II of Great Britain, Squadron Leader David Walker received the prestigious Air Force Cross in Buckingham Palace last month.

Walker, assigned as an Royal Air Force (RAF) exchange officer with Air Test and Evaluation Squadron Five, "was surprised and honored,"

when he heard that he would receive the award from the Queen. "The Queen was very gracious; she asked me if I was enjoying my stay in California, and of course, I said yes," said Walker.

His wife, Nicky, and his mother were present for the three-hour ceremony in the Palace Ballroom at which 120 awards were presented including

two knighthoods and one dame of the British Empire presentation.

Walker received his award for services to the Harrier Force while stationed in West Germany. Several proud family members waited outside the Palace to greet the honoree.

Walker flies the FA/18 and the Harrier jet. He, his wife, and their infant son, Charles, are in the middle of a three-year tour at China Lake.



CLOSE LOOK—The Air Force cross received by SqdnLdr. David Walker. Walker was surprised and honored to learn that he would be receiving this award from the Queen.

Computer Security Act directs actions covering federal computer systems

New laws are often needed to keep up with new emerging technologies. One such law, the Computer Security Act (Public Law 100-235), was passed in 1987 and includes directives for responsibility for the security of federal computer systems.

Judy Yates, NWC computer security officer, discussed highlights of the new law at a recent meeting of the Computer Systems Security Officers.

The law assigns to the National Institute of Standards and Technology (NIST) the responsibility for developing standards and guidelines for Federal computer systems. NIST is to

draw on the technical advice and assistance of the National Security Agency.

The primary purpose of the standards will be to control loss and unauthorized modification or disclosure of sensitive information and to prevent computer-related fraud and misuse.

"The new law also provides a definition of sensitive information," said Yates. "It is now defined as: Any information, the loss, misuse, or unauthorized access to or modification of, which could adversely affect the national interest or the conduct of Federal programs, or the privacy to which individuals are entitled to."

While NWC needs to wait on specific Department of Navy direction for the new law's impact on the Center, the Act does prepare the Center for future requirements.

"For example, with prompting from the Computer Security Act, we have decided to emphasize Computer Security Awareness at the NWC Annual Security Refresher Briefing in April," said Yates.

The Computer Security Act calls for mandatory periodic training in computer security awareness and accepted computer security practices

Christmas Safety Tip

As a fire prevention measure, after presents are opened, keep wrapping paper from fireplace and tree area. Ignited wrapping paper can cause a flash fire.



Value of overseas purchases will be taxed

When items are purchased overseas and mailed to the United States or brought back in luggage, those purchases are being imported. And there's a pretty good chance the value of those purchases will be taxed.

Those taxes, also known as tariffs or duty, are payable to the Treasury Department and provide an income source for the federal government. The United States first imposed

import taxes in 1789 as a primary revenue. Today, customs duty mainly provides competition protection for American manufacturers.

How much duty is imposed depends primarily on the value of the merchandise.

A set of china ordered from the Army and Air Force Exchange catalog, for instance, can carry an 8 to 10 percent duty on its value, depending

on the type it is. The customs fee for a 14-karat gold ring can be 8 percent; a 10-karat gold ring, 12 percent.

Items bought in an exchange store overseas can also carry a customs fee, said Tony De Filippo, customs director for the Washington, D.C., district.

"If the exchange buys merchandise from the local economy for resale, they are not of U.S. origin and are subject to duty tax if they're mailed

into the United States or are not part of your personal belongings," De Filippo said. "The same rule applies to people who buy in the duty-free shops at airports. There was no tax placed on it in the country of origin. It doesn't mean that when it comes into the United States, it will not be subject to duty tax."

By MSGT. Mary A. Peterson, USA

AA pamphlets and films are available for review

Alcoholics Anonymous encourages troubled individuals whose problems have some relation to alcohol to try A.A. Many individuals are recovering through A.A. and are leading effective, sober lives without any official diagnosis of alcoholism.

The pamphlets "A.A. in the Armed Forces," (0503-LP-900-2088), and "A.A. — 44 Questions and Answers," (0506-LP-600-0340), are

available from the Naval Publications and Forms Center, 5801 Tabor Ave., Philadelphia, PA 19120 (order using MILSTRIP format; 20 copy limit). Also, the 16mm film, "One Day At A Time," the history of Alcoholics Anonymous, is available from the Naval Education and Training Support Centers, Atlantic or Pacific. Temporary loan request procedures can be found in OPNAVINST 5290.1.

CHAMPUS tests home health care

CHAMPUS headquarters has continued its home health care test project for active-duty family members and for the survivors of deceased active-duty service members.

The project began July 1, 1986, and was originally intended to last two years. It will continue to provide individualized management of a patient's health care, and to offer home health care as a less-expensive alternative to inpatient hospital care.

The test program extends throughout the continental U.S., including Alaska and Hawaii. Its benefits may include payment for authorized homemakers and home health aides.

Home health care under the project will have to be approved in advance (and before the patient is discharged from the hospital) by the Project CARE Branch at CHAMPUS headquarters. Requests for approval of home health care that is already under way will be denied.

The program may be approved for active-duty family members, including the dependents of deceased active-duty service members. Typical cases may involve caring for premature infants with complex health care needs, patients who require antibiotic intravenous therapy, and patients who need intravenous chemotherapy.

Requests for home health care under the test program must document that all medically necessary services and supplies required by the CHAMPUS-eligible patient can be provided less expensively at home than in a hospital setting. The care will only be cost-shared by CHAMPUS for the time the patient would have stayed in the hospital. The patient must not be covered by other health insurance for home health care, or for the services of a homemaker or home health aide.

The program's home health care benefits will usually be approved for 30 days at a time. A denial of coverage by the CHAMPUS Project CARE Branch is final, and no appeals will be considered, because the usual CHAMPUS program benefits are still available.

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"to encourage use of computer security practices"

for all employees who are involved with a Federal computer system.

Another key point, according to Yates, is that the Act covers contractors doing government work. A Federal computer system is defined as: One that is operated by a Federal agency or by a contractor of a Federal agency or other organization that processes information (using a computer system) on behalf of the Federal Government to accomplish a Federal function.

"Our training objectives are to enhance the employees' awareness of the threats to and vulnerability of computer systems and to encourage the use of improved computer security practices," said Yates. For more information contact the appropriate Code CSSO or the Computer Security Office, NWC ext. 2745.

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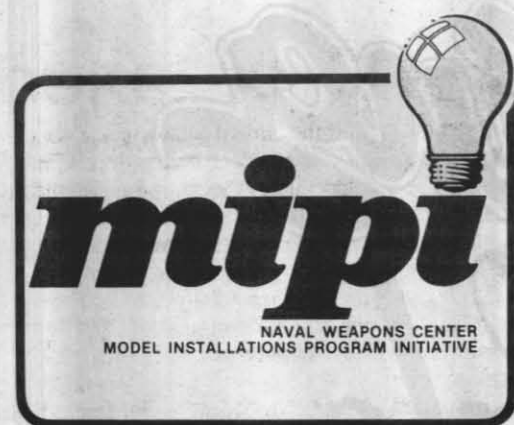
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This is the quickest means of reaching people in the Naval Weapons Center's Model Installation Program Office. They are there to assist China Lakers with the MIP process.

Chemists at Center develop new method

(Continued from Page 1)
water-soluble polymers. Made under heat and pressure, these briquettes dissolve at a slow, controlled rate. The briquettes can be placed directly into the CHT system and will completely dissolve in a few days. They may be covered with a seawater-soluble wrapper to make the briquettes easier to handle.

The citric acid composition is safer, easier to handle, and offers an acceptable Ph level.

"Initial tests here look promising," said Dr. G.A. Lindsay, head of the Polymer Science Branch. "We are continuing tests with salt water here at the Lab and are planning on testing the briquettes onboard a ship starting next month."

Sponsored by the Naval Sea Systems Command Detachment at Bremerton, Washington, the testing is being coordinated with the Naval Ships Systems Engineering Station test facility to determine pH levels downstream from the briquettes in a shipboard sewage-collection system on board the USS Independent in San Diego.

"We've never done a test like this one before," said Lindsay. "We credit the enthusiasm of Mike Hasting,

a chemist in the Branch, with much of the quick success we've had with this project. Our sponsor, Mike Gustavson in Bremerton, is thrilled with our results so far and predicts a huge cost savings for the Navy's 18 carriers and its other ships."

The new credit card procurement program at NWC, designed to speed research projects, is allowing Hasting to order much of the needed test equipment by credit card. The branch expects to be able to conduct the shipboard tests sometime in December.

Although the briquettes have been cast individually, they can be mass-produced in a continuous process using commercially available extruders or pelletizers. NWC is investigating patenting the briquette formula because calcium carbonate buildup occurs in commercial ships and yachts as well.

This match between available technology and fleet need was put together by Robert Byrne, when he was the Navy Science Advisor to the Commander, Naval Air Force U.S. Pacific Fleet. Byrne is now a member of the Systems Engineering Department.

Employees may seek education

Naval Weapons Center (NWC) employees have the opportunity to further their educations through on-center academic programs, with NWC providing tuition support.

Three different California universities offer several external degree programs in cooperation with the Human Resources Development Division of the Human Resource Department.

Through Cal State University Northridge, the Center has external degree programs leading to a master's degree in electrical or mechanical engineering and applied mechanics. The school also offers a bachelor's degree in electrical engineering. A new master's program leading to a degree in systems engineering, was added Fall 1988.

From Cal State Chico, employee can earn bachelor's and master's degrees in computer science.

The external degree program from Cal State Bakersfield provides the opportunity to earn a bachelor's degree in business administration and a master's in administration.

Cerro Coso Community College provides the lower division courses needed for the various university programs.

Informational material and academic counseling on the programs are available at the Training Center. For more information on the on-center academic programs, call Cecil Webb at NWC ext. 2648.

O'Club has it all

Something for everyone seems to be the theme for dinner menus at the Commissioned Officers' Club. Look for Steak Nights on Tuesdays (\$7.95), International Buffets on Wednesdays (\$6.95), Prime Rib Buffets on Thursdays (\$10.95), and Seafood Buffets on Fridays.

Questions for California DMV

(The following frequently asked questions and answers were provided by the Department of Motor Vehicles (DMV), Office of Communications, 2415 First Avenue, Sacramento, CA 95818. Additional Financial Responsibility (FR) information may be obtained by calling (916) 732-7586.)

Do the Financial Responsibility (FR) laws affect me?

Yes, if you drive a motor vehicle or own one! Even if you own a motor vehicle and don't drive it but allow others to drive it, you must comply with the FR laws. Whether driver or owner, to comply you must maintain in force a form of FR specified by law. The usual form is liability insurance, but a bond or cash deposit of \$35,000 is an acceptable alternative.

To meet FR law requirements, vehicle liability insurance must provide at least coverage of \$15,000 for single

injury or death; \$30,000 for injury to, or death of, more than one person, and \$5,000 for property damage caused by any one accident.

How do FR laws affect me if I have an accident?

Regardless of who was at fault, you must report any accident on a public street or highway which results in property damage in excess of \$500, bodily injury or death. You must report the accident to DMV and establish financial responsibility. This report must be filed on DMV Form SR-1 within 10 days of the accident date. This report must be filed by you in addition to any report you file with any police agency or insurance company. If you don't, your driving privilege must be suspended by DMV.

What if I have insurance but forgot to file a report?

If you receive an Order of Suspension under the Financial Responsibility law and were insured or covered by bond or deposit for the vehicle at the time of the accident, you should immediately send that information on DMV Form SR-1/SR-1A to the department to have your suspension set aside. Forms can be obtained by phoning or visiting any DMV office.

What if I'm stopped for a traffic violation?

You must show written evidence of financial responsibility if stopped by a law enforcement officer for a traffic violation. If you can't show written proof, a citation will be issued. To clear the citation, you must go to court and prove you had insurance at the time you were stopped.

If you didn't have insurance when stopped, DMV will suspend your driving privilege after you are convicted of the charge by the courts.

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H.E. Bennett president of SPIE

China Lakers acknowledge that a high level of technical expertise is present at the Naval Weapons Center. Recently one international organization recognized that expertise by electing a Center physicist to be its president.

The organization is SPIE and scientists and engineers from NWC have been associated with it since they formed the first chapter of the organization outside of Los Angeles way back in 1957.

Dr. H.E. (Hal) Bennett, associate division head of the Research Department's Physics Division, is now concluding a year as president of the International Society for Optical Engineering (SPIE). This non-profit society is the largest and most active organization representing optical engineering in the world.

Approximately 80 percent of its members live in the United States. It is dedicated to advancing engineering and scientific applications of optical and optoelectronic research systems and technology and is composed of applied scientists, engineers and supporting organizations active in government, science, education, industry and medicine.

"I have been associated with the Society for the past 15 years and was pleased to be elected president for 1988," said Bennett. "We now have over 9000 members worldwide and have hosted many international conferences for the exchange of information."

"I regard SPIE as one of the strengths of the free world. In our technical competition with countries behind the Iron Curtain, we cannot control published information as they can. Through international conferences, we learn not only of our own research and development but also of the directions of research being conducted by countries behind the Iron Curtain."

SPIE sponsors four major conferences in the U.S. each year: EO LASE in Los Angeles in January on Lasers and Optics, Electronic Imaging, Innovative Science and Technology (sponsored by the Space Defense Initiative Organization) and Medical Applications of Lasers and

Optics; one in Orlando, Florida, in March/April on Optics, Electrooptics and Sensors; one in Boston in September on Fiber Optics, Optoelectronics and Laser Applications (O-E FIBER LASE); and its annual meeting in San Diego in July/August on Optical and Optoelectronic Applied Science and Engineering.

It also runs many topical confer-

ences throughout the year and with the European Physical Society and Europtica cosponsors ECO, the major annual optical meeting in Europe. In the U.S. it is a cosponsor with the Optical Society of America, the Laser Association of America, the Laser Institute of America, and the Laser and Electro-Optics Society of OPTCON, a major laser show which just finished in Santa Clara, CA.

1983 to over 9000 in 1988. Sustaining corporate members have increased in the same time frame from 123 to 187. They include nearly all major optical companies in the United States. Meeting attendance in 1987 totaled 12,100 and 14,500 people visited the exhibits in the various symposia. Final figures for 1988 will be even higher.

"Service to the technical community is SPIE's reason for existence."

Over 400 short courses are held annually. Papers given in the Symposium are published in *Proceedings*, which is found in all major scientific libraries and are widely distributed in the scientific and engineering community. The first SPIE *Proceedings* volume was published in 1963, eight years after the founding of the Society. The 100th volume was published in 1977. SPIE now publishes more than 100 *Proceedings* each year containing over 4000 technical papers and in 1988 will publish *Pro-*

ceedings volume 1000. In addition, it has established the SPIE Press for publishing technical books and monographs this year.

One important area of effort is SPIE's service to education. In the past year, the Society has contributed nearly \$60,000 in grants and scholarships to individuals and institutions involved in the study or teaching of optics and related fields. This money is allocated for tuition, textbooks, equipment, supplies and travel to technical conferences.

Membership in SPIE has doubled in the last six years, from 4500 in

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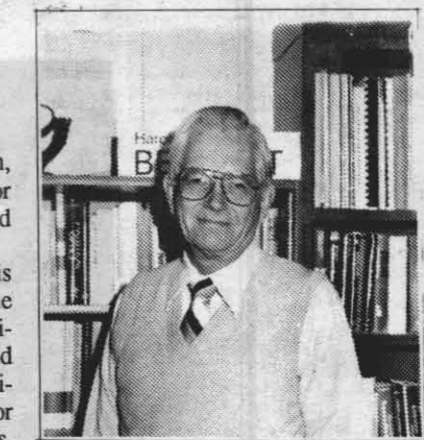
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OUTGOING PRESIDENT—Dr. H.E. (Hal) Bennett is concluding his year as president of the international SPIE organization.

Product Fair to be held

Scientific Devices "Product Fair" of automatic test equipment instrumentation will be held Wednesday, Nov. 30 at the Commissioned Officers' Club from 8 a.m. to 3:30 p.m.

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ber services that will be sure to please everyone. In fact, a Credit Union membership would make a great gift for every member of your family.

Stop by the Credit Union for services that are available year-round, but can help you have a merry holiday season.



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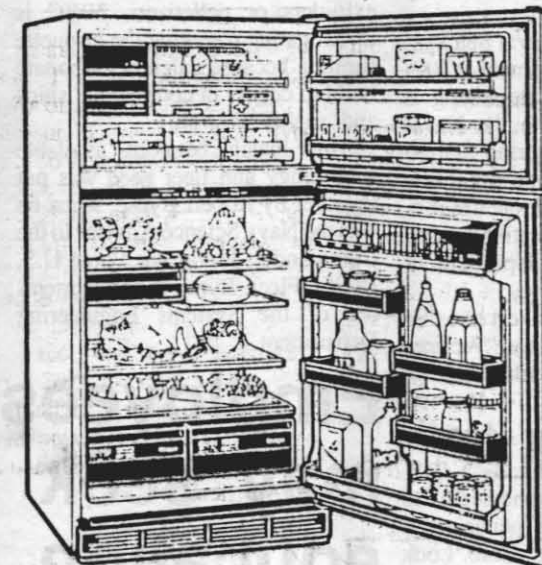
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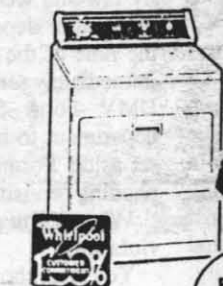


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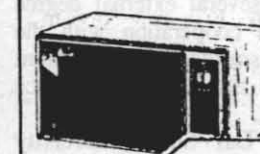
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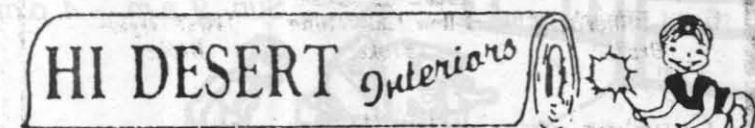
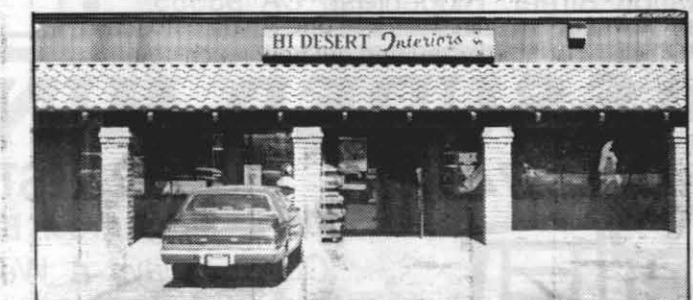
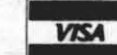
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9 a.m. - 6 p.m.
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NWC remembers Kennedy's visit

It was 25 years ago this week that President John F. Kennedy was assassinated. And, as many current and former China Lakers remember, it was 25 years ago this year that President Kennedy visited the then Naval Ordnance Test Station. He is the only president to have visited China Lake during his time in office.

Twenty-five years ago today, November 25, 1963, was a national day of mourning for the 35th President of the United States and China Lakers, like millions of other Americans, bowed their heads in sorrow and in memory of their fallen leader.

During his brief visit here, President Kennedy was escorted by Capt. Charles Blenman Jr., NOTS Commander, and Dr. William B. McLean, NOTS technical director.

During the several hours spent on board NOTS, the President witnessed an awesome demonstration of the U.S. Navy's carrier attack aircraft against ground targets on the Station ranges. Nine targets were attacked by a variety of Navy aircraft using modern air-to-ground weapons including the Bullpup missile and the Zuni five-inch rocket.

The President made a lasting impression on China Lake residents with his visit, shaking as many hands as possible and inspecting the Marine Barracks Color Guard as the NOTS Barracks performed a final function before being disbanded.

In his brief address to the thousands of visitors who joined in watch-

"All of us have had the opportunity to serve the United States"—JFK

ing the airpower demonstration, President Kennedy said, "I want to express a word of thanks to all of you who work for our country in this decade, those of you who fly, those of you who maintain the planes, those of you who work in research, those of you who may work in Civil Service; I think all of us today in 1963 are proud of the fact that in, one way or another, all of us have an opportunity to serve the United States. This is our last, best hope, and I think in 1963 I cannot think of a prouder statement, when asked what our occupation may be, than to say, 'I serve the United States of America.'

KENNEDY AT MICHELSON LAB—John F. Kennedy visited the Naval Weapons Center 25 years ago. He is the only president to have visited China Lake during his time in office.

Corpsmen have MECP option available to them

Washington (NNS) — Hospital corpsmen and dental technicians who desire to further their medical training and become commissioned officers may find the Medical Enlisted Com-

missioning Program (MECP) an excellent option. The MECP provides an opportunity for HM's and DT's to earn a college degree and a commission in the

Navy Nurse Corps.

To be eligible, service members must be:
•A HM or DT in the regular Navy or on active duty in the Naval Reserve

(including the TAR Program) with at least three years active service by Sept. 30 of the year of application.
•A U.S. citizen.
•A high school graduate or have a GED equivalent with 30 semester (45 quarter) transferable college-level credit hours and a cumulative college grade point average of at least 2.5 on a 4.0 scale.

SUPER SEASON SALE

THIS LOOKS LIKE A JOB FOR SUPERWRAP!



33-50% OFF

Name Brand Items for Christmas for Women, Men, Children and the Home. Sale Starts Friday, Nov. 25.

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- Misses fleece jog suits in assorted colors. Sizes S-M-L. Reg. \$23.99 Sale 33% off.*
- Haggard poly/wool pants and skirts. Sizes 8-18. Orig. \$38. Sale 33% off.*
- Missy blouses. Sizes 8-18. Orig. \$24.-26. Sale 33% off.*
- Missy velour separates. Reg. \$32.-38. Sale 33% off.*
- Pykettes magic fit pants. Short and Average lengths. Reg. \$29. Sale 33% off.*
- Selected Fall dresses. Misses and petites. Sale 40% off. Entire stock of regular price pantcoats for women. Sale 40% off.*
- Entire stock of regular price Komar sleepwear and robes. Sizes S-M-L-XL. Reg. to \$58. Sale 33% off.*
- Marc Roberts bunting loungewear. Shirt length and floor length and 2-piece sets. Sizes S-M-L. Orig. to \$40. Sale 33% off.*
- Selected Junior sweaters in a variety of styles. Sizes S-M-L. Reg. \$26.-38. Sale 33% off.*
- Selected knit pants for Juniors. Sizes S-M-L. Reg. \$16.-28. Sale 50% off.*
- Entire stock of slippers and shoes for Women. Reg. \$7.-25. Sale 33% off.*
- Entire stock of Bueno metal mesh handbags. Reg. \$28.-38. Sale 33% off.*
- Fire polished, faceted crystal necklaces and earrings in pierced and clip styles. Aurora borealis finish. Sale 50% off.*
- Fire polished, faceted jet necklaces and earrings in pierced and clip styles. Sale 50% off.*

MEN

- Selected sweaters. Crews and vests in many colors with cable front styling. Reg. \$24.-27. Sale 50% off.*
 - Entire stock of fleece and velour warmups by Conti and Galaxie II. Reg. \$40.-100. Sale 50% off.*
 - Members Only pullover tops. Oversized for comfort. Reg. \$50. Sale 50% off.*
 - Entire stock of Haggard wool blend sport coats. Reg. \$99.99 Sale 33% off.*
 - Haggard cotton/poly duck slacks. Reg. \$30 Sale 33% off.*
 - Entire stock of Arrow and Van Heusen fancy dress shirts. Sale 33% off.*
 - Prince Gardner leather wallets for Men. Sale 33% off.*
 - Entire stock of Young Men's long sleeve woven shirts. Sizes S-XL. Reg. \$22.-44. Sale 33% off.*
 - Selected Young Men's active long sleeve fleece tops. Sizes S-XL. Reg. \$12.97-32. Sale 33% off.*
- ### CHILDREN
- Selected Children's outerwear. Reg. \$15.97-59.97. Sale 33% off.*
 - OshKosh sportswear. Girls' sizes 7-14. Choose from pants, skirts, blouses and sweaters. Values \$22.-33. Everyday low price \$15.97-23.97. Take an additional 33% off the everyday low price.*
 - Selected outerwear for Boys by Pacific Trail and London Fog. Sizes 4-14. Reg. \$25.-48. Sale 33% off.*
 - Entire stock of sweaters for Boys. Sizes 4-18. Reg. \$15.-28. Sale 33% off.*

HOME

- Christmas placemats. Choose from a wide selection of printed vinyl. Value \$2. Sale 97c.*
- 100% acrylic lap robes. Value \$20. Sale \$9.97.
- Pound Puppy musical pillowcases. Value \$10. Sale \$6.97.
- Regal Ware "Silverstone" fry pans. Values to \$18. Sale 50% off.*
- Toscany 7-piece wine set. Serenade and Encore patterns. Value \$50. Sale 33% off.*

WIN A \$100. BOSTON STORE SHOPPING SPREE

A drawing will be held on December 21, 1988 for a \$100. Boston Store gift certificate. Just in time for the holidays! Fill out the entry blank below and drop it in the drawing box in the Ridgcrest Boston Store.

NAME _____
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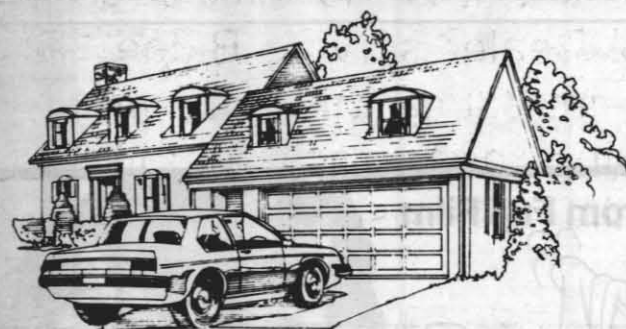
No purchase necessary. Must be 18 or over to enter. Entry good at Ridgcrest Store only. 730 N. China Lake Blvd.

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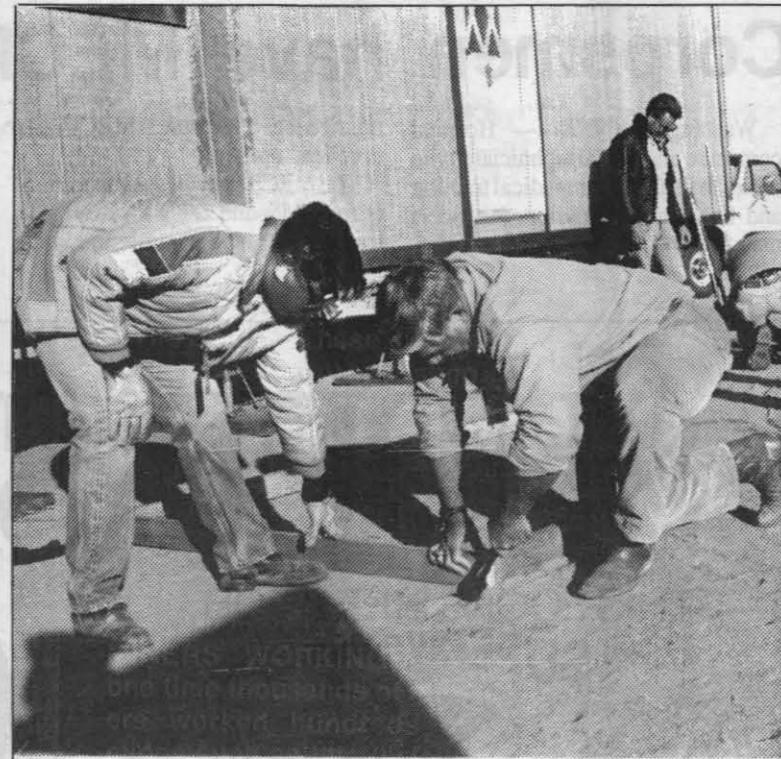
MW&R thanks respondents of survey

One of the main goals of the Morale, Welfare & Recreation (MW&R) division is to be aware of patron needs. Therefore, a Leisure Needs Survey was mailed to a random list of patrons representing the military, military dependent and DoD community.



To make this a valid survey, the division hoped to receive a response rate of 40 percent or higher. This rate was achieved and MW&R would like to thank all respondents. By filling out the survey, the respondents helped MW&R to help all patrons. The completed surveys have been mailed to the University of Georgia for the information to be analyzed. All concerns/comments have been read and, if possible, acted upon.

The Leisure Needs Survey results can be used to improve the facilities on Center. They will be used as "verification of need" for the approval of funds. Patrons are urged to contact MW&R at NWC ext. 3387 with suggestions and comments.



SQUARE?—Capt. Ken Kelley (with tape right) and Jon Osgood (left) check to see if their concrete form is square. Looking on are the people Osgood and Kelley are temporarily working for—Lulu Jones, Butch Hines, Sammie Treece and Jimmie Kniggie. Photos by PHAA Cary Brady

WATCH THE THUMBS—Lulu Jones gives Jon Osgood (top right photo) some sound advice as Osgood does her job, under Jones' supervision for a four hour period.

GOOD TECHNIQUE—Capt. Ken Kelley traded his uniform and a pen for work clothes and a saw (left) as part of the Public Works Department's "Bosses do the Work" contest.

PW leaders do odd jobs for the help

Thirteen top managers in the Naval Weapons Center's Public Works Department, including Capt. Ken Kelley, public works officer, spent four hours working for one of their subordinates recently. The unusual activity was part of a "Bosses do the work" contest held in the department.

Capt. Kelley, for example, spent four hours working under the direction of Jimmie Kniggie of the masonry shop and Cdr. Ken Galer will work for Eva McCaughan in the Housing Office. Lulu Jones of the Labor Shop got Jon Osgood, associate department head for production for four hours while Bill Bonner, associate for engineering and planning, will assume the duties of Dot Jonson, department secretary.

Dennis Medley of the paint shop will supervise the work of Kay Farrell, head of the computer information support office and Joe Weaver of the construction division gets the pleasure of supervising LCdr. R. Davis. Tracy Seleska, a staff secretary won the right to have Dick Malone, head of the engineering division, do her work for four hours and Bob Peoples, the department personnel management advisor, gets the services of Mike Crom, maintenance-utilities division head.

Also winning was Mena Leon who has to find meaningful work for Tom McGill, head of the environmental division, and Ross Seybold of the service shop who supervises Don Chieze, head of the service contracts management division. Anne Ryan of the housing office will have the service of Tim Silberberg who heads the facilities planning division.

Even Capt. Kelley won, he got four hours worth of time from Sybil Cope, who heads the housing office.

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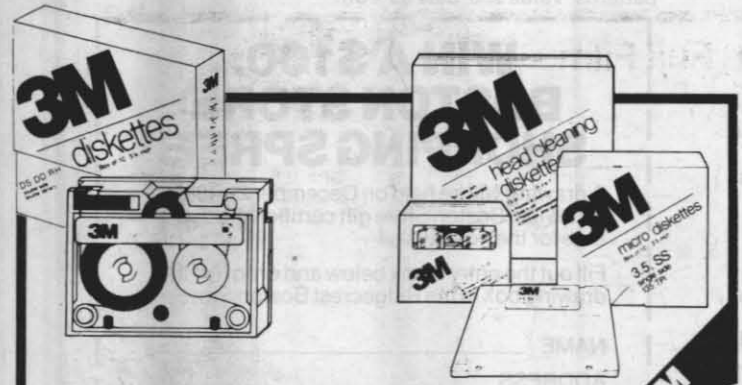


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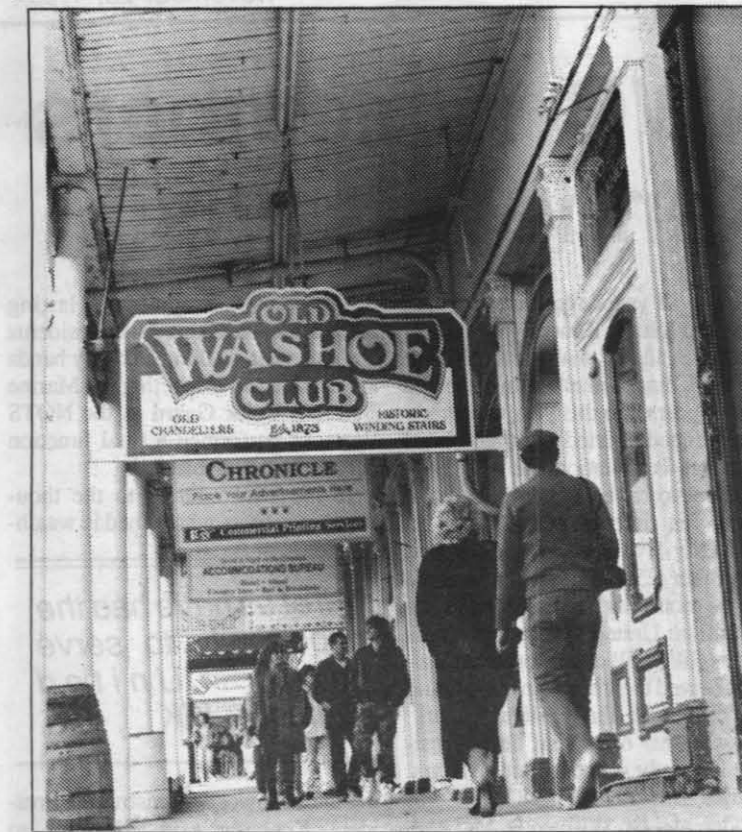
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Virginia City far from a ghost!

Virginia City, Nevada is listed on tourist maps as a "commercial" ghost town. The maps and ghost town books are just a little off. The city is very commercial but it is far from a ghost!

While tourists swarm over the sidewalks, occupy all the parking spots along the main drag and drop coins in slot machines at the "Bucket of Blood" and Delta Saloons, real mining activity continues nearby.

One large mine operating just down the road from Virginia City has found modern gold and silver techniques make it profitable to open pit mine when they get less than half an ounce of gold from every ton of rock removed.

But, 100 years ago Virginia City was the hub of Nevada's famed Comstock Lode. Mine tunnels were everywhere. The city boasted a now famous writer, Mark Twain, on the staff of the *Territorial Enterprise* newspaper. Homes, make that mansions, were built by the mining barons, many of whom went bust when the rich veins of silver ended.

Today the tourists see or a small part of what Virginia City once was. They see the shells of the saloons, without the hardrock miners. They see pictures of the people who made Virginia City famous, but seldom a trace of their life. Visitors see the card tables, but no Mark Twain sitting at them, and no gun fights over cheating at cards. And, tourists can only look at boarded up, fenced off and decaying mines. Mines that once made Virginia City one of the richest cities in the country.

Virginia City is about a seven hour drive north of China Lake. It is between Carson City and Reno, only about 25 miles off Highway 395.

SR Bonus still alive in FY 1989

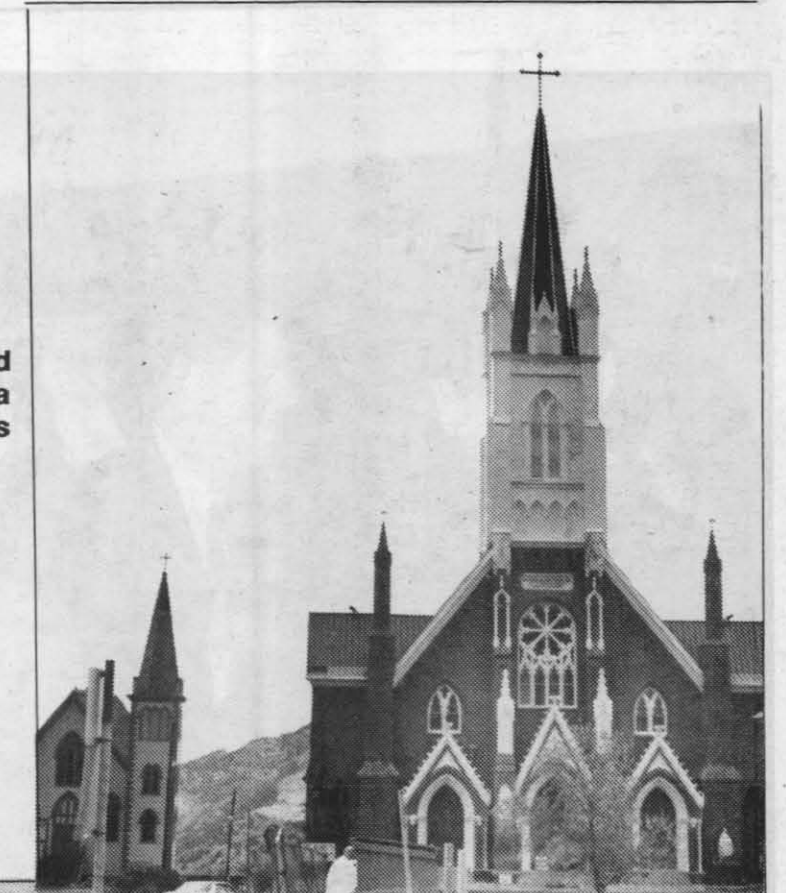
WASHINGTON (NNS)—The Selective Reenlistment Bonus (SRB) program is alive and well for Fiscal Year 1989. The president recently signed legislation which authorizes and funds the program.

SRB requests should be made following the latest SRB award level plan.

VIRGINIA CITY—Visitors (left) at the historic Nevada mining town of Virginia City stroll the sidewalks looking at saloons, gambling joints and museums.

HISTORY— These two old churches (right) have seen a lot of changes in Nevada's Comstock Lode area.

MINERS WORKINGS—At one time thousands of miners worked hundreds of mines such as this (below) in Gold Hill, Silver City and Virginia City.





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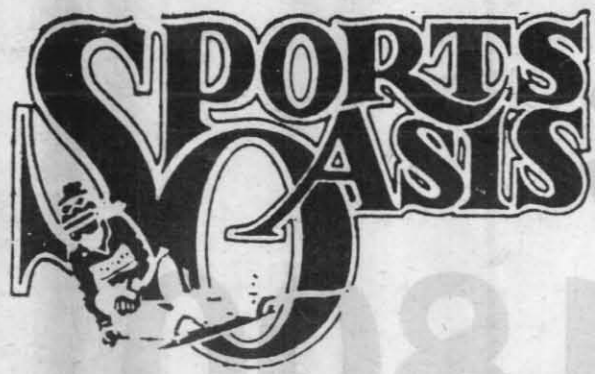
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ROSSIGNOL 4G	\$425	\$369.95
SALOMON 957E	\$195	\$169.95
SALOMON 957C	\$195	\$169.95
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Christmas Kick-Off Drawing
Win A Pair of Ski-Optiks Sunglasses

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Drop off at Sports Oasis
Drawing to be held Dec. 21

NEW LOCATION: 219 N. BALSAM STREET
371-2420

NWC Rocketeer

Turkey Shoot

Four-person teams seek triumph on the links

With a slim one-stroke margin, the foursome of Dick Davis, Bill Zebley, Bill Lalor and Jim June took the China Lake Golf Club's Turkey on the Hook Turkey Shoot Tourney last Sunday. The winners had a two best balls out of four total of 126. Hot on the heels of the winners were Bobby Kleen, Lee Wertenberg, Jack Basden and Sonja Giuliani with a 127 total, good for second place.

Tied for third with a round of 128 was the team of Phil Sprinkle, J.D. Ward, Gene Collins and Maria Mendia. Also in at 128 was the foursome of Jerry Lloyd, Ralph Pinto, Basil Legg and Pattie Ades.

Winter lap swim schedule

Enjoy lap swim at the Naval Weapons Center's indoor pool through the remainder of the fall/winter schedule. Lap swim times are from 4:30 to 6 p.m. on Mondays, Wednesdays and Fridays. Open swim will remain from 6 to 7 p.m. on Mondays, Wednesdays and Fridays. For further information, please contact the gym at NWC ext. 2334.



WHERE IS IT?—Golfers at the China Lake Golf Course try to follow the flight of the ball during Sunday's tournament.

First CLASS
Book Shop Presents
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Address _____
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Drop off at Silk Jungle
Drawing to be held Dec. 21



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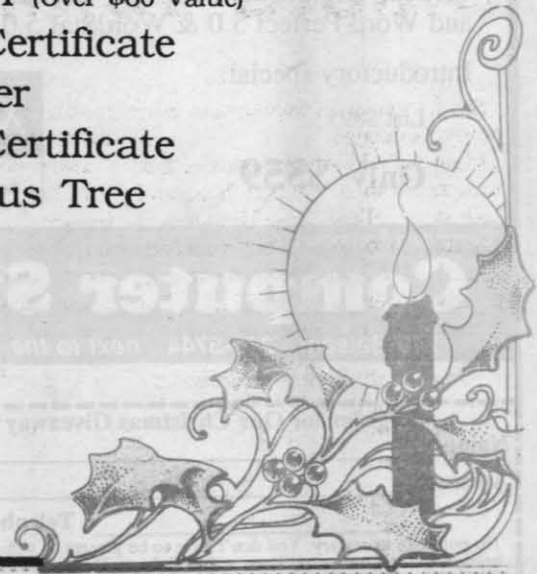
3rd BIG WEEK — Here's the list of all participants in the Christmas Kick-Off drawings. Get your coupons in TODAY!! Don't wait too long or you'll miss out on your chance to win — 19 CHANCES! All drawings will be held **December 21, 1988** — Just in time for Christmas. Remember you **MUST ENTER TO WIN!** PLEASE, ONE COUPON PER PERSON, PER DRAWING. No purchase necessary. So what are you waiting for?

This Week's Participating Stores:	Address	Gift
SPORTS OASIS	219 N. Balsam St.	Ski-Optiks Sunglasses
HI DESERT INTERIORS	1519 N. Norma	Microwave Oven
TIRE MAN	517 Inyokern Rd.	Set of Wheel Locks
COMPUTER STORE	249 N. Balsam	\$25 Gift Certificate
VISIBLE CHANGES	634 China Lake Bl., Ste. B	5 Tanning Sessions
MR T's JEWELRY	634 China Lake Bl., Ste. E	\$50 Gift Certificate
CHINA SZECHWAN RESTAURANT	1635 N. China Lake Blvd.	Free Lunches
BOSTON STORES	730 N. China Lake Bl.	\$100 Gift Certificate
DESERT AUTO PARTS	500 Atkinson (on Norma, 2 blks. So. of Inyokern Rd.)	16-Foot Jumber Cables
SHAYNA OF RIDGECREST	1539 N. China Lake Bl., No. 147	3 Mos. Free Rent & Installation (Over \$60 Value)
JEWELRY TO GO	115 E. California	\$75 Gift Certificate
KELLYS GREEN HOUSE	901 N. Heritage Dr.	Free Dinner
RIDGECREST FURNITURE	138 Balsam St.	\$50 Gift Certificate
SILK JUNGLE	135 Balsam St.	6-Foot Ficus Tree

GRAND PRIZE

5 \$100 Gift Certificates

to be given away by the Rocketeer Advertising Dept.



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CLASSIFIEDS

353 Miscellaneous For Sale

WOMEN'S DENIM jeans, size 40-42; shirts, small (bedroom size) green velour stuffed chair, new polyester yardage (various prints), small Coleman ice chest, drapes, blankets, telephone, boots (rubber w/leather uppers, size 8). Deluxe queen size padded waterbed. Railings dark brown. 375-9528.

ZENITH 25 in. console t.v., dark pine, remote, 178 channels, excellent, \$495. 446-2205.

357 Pets

6 MONTH OLD and 1 month old cocktials, also love birds and diamond doves. Call: 375-7475 after 5:30 p.m. or leave message any time.

357 Pets

BASSETT HOUND PUPS. Champion bloodlines, windblown Bassett Kennels. 375-7780

BIRDS, BIRDS, and more birds! Baby cocktials and diamond doves. Call 375-7475 after 5:30 p.m. or leave message any time.

BRITTANY SPANIELS, ready for Christmas. Born November 2, 375-9580

FOR SALE 7 month old Alaskan Malamute. Good with children. Has had all shots. \$150. Call 446-2827

FREE TO GOOD HOME. 4 Kittens; 3 orange & 1 black. Box trained. Call 377-5838

TWO FREE Loving & Adorable Kittens with some equipment. 446-2274 after 5 p.m.

361 Wanted to Buy

WANT A 3 Bedroom home in Ridgecrest. Some fixing okay. Up to \$60,000. Harwell 446-6209

377 Homes for Sale

FREE... Weekly list of properties for sale by owner with addresses, prices, owner's phone #. Call 371-1005, HELP-U-SELL REAL ESTATE.

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381 Condos for Sale

"A CHARMER" Deeter condo, one story, 2 bedroom, 1 1/2 bath, fireplace, patio, garage & pool, \$66,500. 446-6228.

385 Mobile Homes For Sale

1973 GRANDVILLE mobile home. Nice two bedroom, 1 bath, \$9,000 or best offer. See at China Lake Trailer Park F-20. Call Jerry/Teri 446-6036.

32 1/2 FOOT FIREBALL Deluxe Travel Trailer (1984), set up in park (\$85 a month + electricity). Large shed with washer/dryer hook-up. Blue book \$14,500 asking \$9,000. Available January 1. 375-8273 M-W-F evenings.

60's VINTAGE MOBILE HOME 10 x 57, 2 bedroom, 1 bath, pop-out living room "AS IS" asking \$3,000 make offer. Call 377-3132 for appointment, be prepared to leave message on answering machine. Purchaser responsible to move mobile 2 weeks after purchase.

ARE YOU TIRED OF renting? Are you looking for a home of your own? Come to Tumbleweed Mobile Home Sales and let us find a home to fit your needs. We are at 107 Inyokern Rd., or call 446-2350.

429 Apartment for Rent-Unfurn.

TOWNHOUSE, 2 bedroom, 2 1/2 bath, garage, refrigerator, dishwasher, washer & dryer, pool, spa. 257 E. Ujipohn, available January 1, 1989, \$635 per mo. lease, \$650 per mo. rent. 377-4745.

PHONE 375-8808 TO PLACE YOUR CLASSIFIED AD.

441 House for Rent Unfurnished

AVAILABLE Now, three bedroom, two bath, fenced yard, washer/dryer hook ups, range, refrigerator, two car garage, \$570/mo, \$620 deposit. 375-1439.

READY TO RENT! Freshly painted, great western track home. Three bedroom, two bath, fireplace. New carpet. No pets. \$625 a month. 446-4810

READY TO RENT! Only \$595 for this cute 3 bedroom, 2 bath & garage. Spacious up-to-date living, dining and kitchen areas, stove, dishwasher, carpets & drapes. No pets. 446-4810.

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445 Room for Rent

ROOMMATE WANTED ASAP - 2 bedroom, 1 bath duplex with small backyard, garage & fireplace. Furnished except 1 bedroom. I do have a dog. \$225 a month + 1/2 utilities, cable, phone, etc. 1st + \$100 sec. dep. 375-3185

449 Space for Rent

CARPETED OFFICES & TILED SHOP SPACES. Richmond Road Professional Buildings, 1,000 sq. ft. per suite. Easy access to NWC South Gate. \$500 per month. M2 Zoned. Call collect: (602) 855-3670.

461 Mobiles for Rent

ARE YOU TIRED OF renting? Are you looking for a home of your own? Come to Tumbleweed Mobile Home Sales and let us find a home to fit your needs. We are at 107 Inyokern Rd., or call 446-2350.

469 Motorcycles

HONDA motorcycle XL350R, like new, \$1,200. Call Jon at 446-4700 or 371-1628.

MOTORCYCLE Re-upholstered, same day service. Reber Upholstery. 375-6446.

PHONE 375-8808 to place your classified ad.

489 Trucks and Vans

DATSUN 1971 truck \$1,000. New tires, 100 watts of stereo, tinted windows, 5 speed, runs great!! 446-4700 or 371-1628.

497 Auto Repair

CUSTOM Auto Upholstery, satisfaction guaranteed. Reber Upholstery. 375-6446.

505 Autos, Wanted

PRIVATE Party now buying wrecked or junk vehicles. 375-8394 evenings and weekends.

469 Motorcycles

SUZUKI CAVALADE LX 1986, has everything. Excellent condition. \$5000 firm. 446-7196

481 RV Rental

USED 1984 TAURUS 27, Double bed, A/C, awning, \$7500. Call Harris Trailer Sales, Bishop, CA 873-7147

USED 1984 Terry 28', solar panel, 3 twin beds, A/C, awning, T.V. antenna, deluxe. \$8500. Harris Trailer Sales, Bishop, CA. Call 873-7147

USED 1986 TAURUS 19', A/C, trailer used once. Special \$6995. Harris Trailer Sales, Bishop, CA. Call 873-7147

USED 21' OLDER ALJO Trailer. But excellent condition. Self contained. Twin beds, auto. battery charger. \$2500. Call Harris Trailer Sales, Bishop, CA 873-7147

485 Autos for Sale

CHEVY 1979 Silverado 4x4, short bed, new tires, a/c, power steering and brakes, am/fm with cass., shell, roll bar, \$5,500. Call 446-2439 evens. & weekends.

DATSUN 1971 pick-up, 5 spd, tinted windows, new tires. RUNS GREAT! \$500 or make offer. Call 371-2420 or 371-1628, ask for Jon.

MAZDA B2200 PICK-UP, 1988. A/C, 5 speed, 3000 miles. \$6800. Steve, 375-5905

PONTIAC 1988 Grand Am, 5 speed, a/c, p/s, tilt, excellent condition, \$10,000. 446-2814.

THE REASONS WHY Smart People purchase from Charlon & Simolon Used Car Corner: 1) Best prices anywhere. 2) Mechanics on duty. 3) Extended service contracts available. 4) Financing available. 5) Trade-ins welcome. 6) Courteous after sales service. Ask for Dave, Dick or Larry

TOYOTA 1987 Cressida, sunroof, too much to list. Fully loaded, almost new, \$16,500, excellent condition. 375-3611.

VW CONVERTABLE, 1964. 4,000 miles on rebuilt. \$950 or best offer. 446-6747

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CUSTOM Auto Upholstery, satisfaction guaranteed. Reber Upholstery. 375-6446.

505 Autos, Wanted

PRIVATE Party now buying wrecked or junk vehicles. 375-8394 evenings and weekends.

Soccer squads near the finale

Twenty teams from the Naval Weapons Center's Youth Soccer League were in action last Saturday as the fall season nears its end.

Division I

Owls 0, Coyotes 0
Outstanding play by Lynn Bailey, Alexis Miller, William Powell, John Schneider, Chris Bailey and James Fujiwara made this an interesting, if scoreless, contest.

Express 3, Eagles 0

Two goals by Jason Clark and one by Sam Elson were all the Express needed. They also got strong play from Amber Agee, Frits Van der Hoek and Jason King. Dustin Statter, Blake Stephenson, Lisa Mahoney and Ben Labee led the Eagles.

Cobras 2, Apollos 1

Clifton Whitehurst scored both goals as the Cobras moved to the win. They got strong performances from Jacob Chastain, Mathew Combs, Quinn Edwards and Joshua Eck. The Apollos' goal was by James Tam. Tim Bachman, James Aston and Jonathan Baysa also had good games.

Division II

Jets 3, Bullets 0
Goals by Danny Marin, Mark Kuz and Chris Peters paced the Jets' victory. Bryan Kash, Justin Agee and Chris Mouw also had strong games. The Bullets got good performances from Kurt Katzenstein and Lisa O'Neil in goal and a strong defense from Phillip Berden, Sam Miles, Blake Harden and Jose Tovar.

Whitecaps 3, Rockets 0

Nick Charlon hit all three goals in the triumph while Mark Ogren, Jay Black and Anastasia Wunderlick came through with good games for the Whitecaps. Andrea Falk, Tiffany, Gary Hobson, Jim Orozco, Earl Shifflet, Kevin Nowicki and Rory L'Hommedieu led the Rockets in the season finale.

Roughnecks 2, Diplomats

Kevin Byrne's second half goal

was all Diplomats could muster. They also had strong showings by David Jensen, Jordan Madison, Ray Hyles and Jonathan Ford. The winners got goals from Barrett Edwards and Chris Maki. Other strong performances came from Jarrett Coss-grove and Jesse Weston.

Sounders 1, Cougars 1

Steven Shultz had a good game at halfback and C. Branson scored the lone tally in an exciting contest for the Sounders. The Cougars picked up the tying goal from Brett Thom-sen. Other good play came from Keith Burley, Larry French, Jeffrey Walden, Galen Wilson and Matthew Girardot.

Division III

Earthquakes 3, Soccers 1
With a team effort behind them, Mitchell Tims, Chris Patten and Ian Leis scored the goals for the winning squad. Travis Caddell had the lone Soccers' goal. Mercy Ann Eizenga, Randy Martin, Brian Satterthwaite, Ben Coleman and Frank Gamble also had good games.

Sting 3, Strikers 3

Two goals from Christian Robert-son and one from Jason Ford paced the Sting. Christy Davis, Tom Davis, Richard Martin, Caleb Moore, Eric Hines and Tim Clark were other out-standing players. The Strikers gained goals from Danny Hartley, Jeff Caruso and Luke Woyziak. The team also had good play from Glen Conrad, Mark Castillo, Nathan Turner and Jesse Beines.

Goalbusters 2, Lancers 2

Neil Covington scored two goals on assist from Ryan Lilly. The team also got a boost from the play of Holly Staub, Matt Hill, James Powers, Kyle Gentry and Dan Behr. Greg Greedy and Brandon Rivera scored in Saturday's game. J. Ellingson, David Estes, and James and Toby Odoms also supported the effort well.



READY AND WAITING—A row of golf carts just sits waiting for the next tour of the China Lake Golf Course. Photos by PHAA Cary Brady

Hoopsters open play on-Center

Interested in catching some hoop-ster spirit? The Intramural Basketball season is bouncing into action with next week's schedule:

Tuesday, Nov. 29

6:45 p.m. Rebels v Schooner's Shooters

8:00 p.m. Fil/Am v No Name

Wednesday, Nov. 30

6:45 p.m. Schooner's Shooters v Puccis

8:00 p.m. Dec Wrecc v Texins

Thursday, Dec. 1

6:45 p.m. NWC Varsity v Pioneer Motel

8:00 p.m. Riff Raff v ATC

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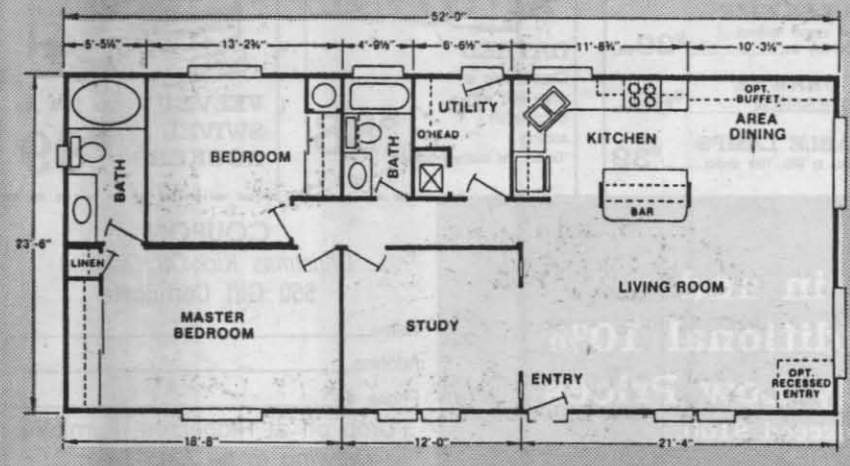
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Drop off at Kelley's Greenhouse
Drawing to be held Dec. 21

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Bombas capture gridiron victory

For those who missed the Intramural Flag Football Superbowl Game on Wednesday, Nov. 16, here's a season recap:

The season began Wednesday, Sept. 28 on North Schoeffel Field when the Hitters Fun Bunch met NWC Varsity. The Hitters ran away with the victory with a score of 38-12. Following this decisive game, the La Long Bombas challenged the Covert Action. The Action lost this one 23-15.

Each team met a new opponent on Wednesday, Oct. 12. The Hitters remained undefeated after its victory over the Action. The Bombas also stayed on top after meeting the Varsity.

The Varsity finally won one in a close contest with the Action, 39-33, on Wednesday, Oct. 19. The Hitters held on to its top billet by beating the Bombas 19-6.

On Wednesday, Oct. 26, the Hitters met the Varsity in a rematch and won again 27-12. The Bombas retained its good record after winning its rematch against the Action in a close one, 26-20.

Wednesday, Nov. 2, brought the Action its first victory against the Hitters, 39-26. The Bombas ran over Varsity with a score of 20-13.

The last regular game of the season culminated in victories for the Action and the Bombas. The Action beat Varsity, 44-26, while the Bombas let loose on the Hitters, 20-0.

The Hitters were ready for revenge at the Superbowl Playoff Game on Wednesday, Nov. 16, but they just couldn't keep up with the Champion Bombas in a tightly played game. The Bombas win 12-7. The Championship team was managed by Carl Norlund. Each game lasted 48 minutes and consisted of four twelve minute quarters.

Gun Club practice

Every Tuesday evening the Sierra Desert Gun Club holds the Junior Division smallbore rifle practice at its clubhouse located at the Naval Weapons Center. The range opens at 6:30 p.m. and the first relay begins shooting at 7 p.m., followed by a second relay which starts at approximately 7:30 p.m. Squading is on a first come, first-to-shoot basis. Junior club members are provided with .22 caliber ammunition for 75 cents. Range fees are 25 cents for club members and 50 cents for non-members.

The Junior Division is open to boys and girls between the ages of 11 and 18 years. Members receive one-to-one instruction in the proper shooting procedures and can join at any time. It

is not necessary to wait for the yearly Marksmanship Class to join. All necessary equipment and materials, including target quality .22 caliber rifles are provided by the club.

Parents interested in having their children learn better shooting through the safe, sane and effective employment of firearms in hunting and target shooting can call the clubhouse at 446-3455 after 7:30 p.m. or the club's president, Charles Beach, at 375-2900 for more information.

Small bore practice takes place at the Sierra Desert Gun Clubhouse every Wednesday evening. The range opens for preparation 7 p.m. with shooting beginning at 7:30.



FORE!—Two golfers are enjoying a mild winter day by playing in Sunday's Turkey Shoot Golf Tournament at the China Lake course.

Three tie for title in tourney

Three teams tied in Saturday's two best balls of three play at the China Lake Golf Course. The three—some of Jim Merrill, Don Hiles and Frank O'Brien carded a round of 130 as did the team of Bill Giuliani, Don Sicley and Ed Nelson along with the trio of Jerry and Dixie Lloyd and Larry Boyd.

In Sunday's action, the twosome of Sonja Giuliani and Jack Brown took honors in a net aggregate of partners tourney with a 138 tally. Bill Hill and Carol Beck came in at 141 while Jim, Merrill and Lee Wertenberger were at 142 and Mary Castor and J.D. Ward had a 143 total.



Santa's 5K run set

All asphalt burners, joggers and walkers are invited to participate in the first annual Santa's Helper 5K run on Sat., December 3.

All proceeds will benefit the Ridgecrest Women's Shelter Network. The run will begin and end at

the NWC gym. Registration will begin at 8 a.m.; the race will start at 9:30 a.m.

Prizes will be suitable for gift-giving or keeping. T-shirts and post-race refreshments will be offered to all participants. Entry fees/donations are \$12/adults and \$7 for those under 12. Contact Sigi at 446-7491 for more information.

Thrift Shop offers value

When you purchase items from the Center Thrift Shop, you benefit yourself and local non-profit agencies. The shop offers value-priced items from uniforms and other items of clothing to household goods.

Located on Lauritsen Road, near Navy Relief, the shop is open Monday and Wednesday from 8:30 to 11:30 a.m., Tuesday 6:30 to 9 p.m. and Thursday 10:30 a.m. to 12:30 p.m.

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288-6743 (Autovon)
(202) 443 6743 (commercial)

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Monday-Friday 10 a.m. - 4:30 p.m.
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337 Work Wanted

LOVING Mother offering child care for your toddler, no spanking, lots of TLC, Monday - Friday, full time only, family home care certified. Call 446-2242.

RELIABLE MOTHER will babysit anytime, any days, also weekends. 446-4348.

SPECIAL CARE for infants & toddlers. Experienced, good rates, ft, p/t. 375-2742.

353 Miscellaneous For Sale

AVON - to buy or sell, call Debbie at 375-1138. CALIFORNIA KING WATERBED, large ornate. Headboard must see. \$300. 446-6747

COMPUTER, Commodore 64 monitor, printer, drive, documentation, Mirage (software-data base, word process & adv. reports), used very little, \$475. 446-2205.

COUCH WITH SLEEPER for sale. Excellent condition. \$200. 446-3368

DINETTE SET, glass top & four wood chairs. Good condition, \$100. Sofa, beige/brown plaid, good condition, \$75. Call 446-7044 after 5 p.m.

WILHORN & SON firewood sale. Now have almond, pine & fir. 377-4465.

353 Miscellaneous For Sale

FRIDGEGARE GAS Dryer. Good condition. \$100. 446-6747

GE REFRIGERATOR, Frost Free \$100. Tandy computer model 3, \$400 or best offer. 446-3277 leave message

HOLIDAYS ARE COMING, order your home-made tamales today. Beef or Pork \$10.00 a dozen. Call 375-0943 after 5:30 p.m.

NEW PORCLIAN for sale, 19" color t.v. wiremate control, \$300. 446-2639.

PEE HERMAN doll, cost \$35, selling for \$30, never used! Baseball cards. 446-2639.

SEWING MACHINES and vacuums expertly repaired. Singer & Kirby our specialty, 20 yrs. in Ridgecrest. Call Butler 375-6075. Free estimates, pick-up & delivery.

SKATEBOARD ramp, 10' x 16' x 36' Sports Oasis demo ramp, used 1 day! Make Offer. 446-4700.

TRACTION CABLE 15 inch tires used once, \$40. New never worn black rabbit coat size small, \$40. Two twin beds, 1 has trundle, \$10 & \$20 or \$25 for both beds. Big wheel bike, \$10. Apple II 1 disc drive monitor, super serial cord, parallel printer cord, 280 josticks, 50 software disks & books. \$400 takes it all. 446-4821

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SOFA TABLES
Large selection of styles and finishes, as low as \$99. ea.

CHEST 4-Drawer \$39. ea.

BARSTOOLS
As Low As \$69. ea.

QUEEN SIZE
Foam sleeper mattress While they last! \$29. ea.

6 DRAWER DRESSER \$69. ea.

TABLE LAMPS Values to \$89. Your choice \$39

SOFAS FROM \$149

2-PIECE SOFA & LOVESEAT SETS
Large selection of Traditional, Country, French Provincial and Contemporary styles in today's popular colors and covers.
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CHAIRS \$79. ea.

As low as \$299.95

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Large assortment of styles and finishes including laquer. \$69. ea.
As low as \$69. ea.

DAYBED
Classic style in white iron with brass finish accents
\$88
*Covers and mattress optional

RECLINER From \$139

QUEEN SIZE Mattress & foundations as low as \$159. set

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LOVESEATS

Assorted styles & covers values to \$799. As low as \$149. ea.

LAMP TABLES

Large selection of oak, cherry & laquer finish in a wide range of styles, as low as \$69. ea.

VELVET SWIVEL ROCKERS As Low As \$99

Bring this ad in and receive an additional 10% off our already Low Prices
Not to exceed \$100.

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Christmas Kick-Off Drawing
\$50 Gift Certificate

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Phone # _____
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Drawing to be held Dec. 21

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Ridgecrest

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305 Business

1ST CLASS BOOK SHOP presents Dr. Suzann Owings an intuition mini-workshop Friday, December 9, 1988. Reserve your space by November 30th, 1988 for a free drawing, 220 Station St. CATERING - still time to plan special holiday parties. Call for details. Kelly's Greenhouse Cafe, 901 N. Heritage Dr. 446-5404.

305 Business

KELLY'S GREENHOUSE CAFE is now featuring Schat's and Danishes. Available with breakfast or by the loaf in the bakery. 901 N. Heritage Dr. 446-5404.
PRINTER & typewriter ribbons, quick delivery, high quality, Mastercard accepted. B & L Office Products, 318 W. Ridgcrest Blvd. 375-8422.

305 Business

WALK-UPS CUSTOM UPHOLSTERY. We offer free estimates with samples brought to your home, also free pick-up and delivery. Our workmanship is 100% guaranteed. 8 a.m. - 5 p.m. Monday thru Friday. Evenings and Saturday by appointment 446-3929, 721 Inyokern Rd. Ridgcrest

313 Personals

AVAILABLE for bookings "Hands Tied", dances, parties, receptions. Call 375-6826 or 377-4185. AVON - to buy or sell, call Debbie at 375-1138. LOVING Mother offering child care for your toddler, no spanking, lots of TLC, Monday - Friday, full time only, family home care certified. Call 446-2242.

317 Professional

CUSTOM SEWING and alterations, call for an appointment. 446-5983.

LIONS Song offers quality piano tuning at a quality price, only \$35 for a normal tuning. Call today for an appointment. 371-1671.

FOR CUSTOM Auto Upholstering and motorcycle re-upholstering come to Reber Upholstering. Serving the Ridgcrest area since 1976. Satisfaction Guaranteed. 375-6446.

LOVING Mother offering child care for your toddler, no spanking, lots of TLC, Monday - Friday, full time only, family home care certified. Call 446-2242.

REPAIR WASHERS, dryers & major appliances. Guaranteed Service. Call 371-1599

STAINED GLASS windows. Reasonable prices, financing available. 446-4640/377-5536 Patrick.

325 General Services

AVAILABLE for bookings "Hands Tied", dances, parties, receptions. Call 375-6826 or 377-4185.

LOVING Mother offering child care for your toddler, no spanking, lots of TLC, Monday - Friday, full time only, family home care certified. Call 446-2242.

333 Help Wanted

AVON - to buy or sell, call Debbie at 375-1138. NEEDED: Busboys, Hostesses & Delivery Persons. Apply in person at 1635 N. China Lake Blvd., China Szechwan.

337 Work Wanted

CHILD CARE - mother of 3 has an opening for 1 child 2 yrs. or older. Fenced yard & lots of TLC, full time 7 a.m. - 5 p.m. Mon-Fri. 446-3698.

ENERGETIC EFFICIENT young lady available for housework. I like to clean. 375-7455.



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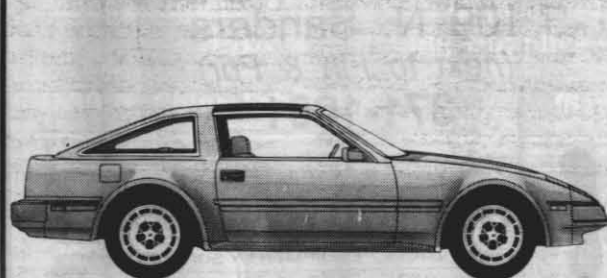
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(L-R) Doug Butler, Tim Freer, Rudy Guzman



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Personnel News & Notes

Promotional opportunities

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

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

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

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

No. MWR 22-8846, Operations Clerk, AS-301-5, \$5.41 to \$6.31 per hour, permanent full time, Code 22911 - Incumbent maintains daily reservation book for diners, operates cash register and prepares work schedules and time sheets. Incumbent also maintains alphabetical and subject files, regulation manuals and directives. Will perform basic clerical skills and other duties as required. **Job Relevant Criteria:** Ability to type and operate an adding machine, must be able to communicate well with people. **THIS IS NOT A CIVIL SERVICE POSITION.**

No. 25-014, Procurement Clerk (Typing) /Procurement Assistant, DG-1106-1/2/3, Code 25A - Incumbent is responsible for providing clerical support in the form of typing (utilizing Xerox 860 Word Processor), filing, compiling data maintaining logs, and performing follow-up on action item suspense dates for a wide variety of contractual actions. Maintains instructions and FAR Clause books, reviews correspondence and suspense action items, and receives visitors and telephone calls. Uses a wide variety of guidelines including DoD and Navy Acquisition Regulation books. **Job Relevant Criteria for DG-1:** Knowledge of correspondence regulations and contractual terminology; ability to meet with people effectively and prioritize work under heavy workload conditions; ability to type. At the assistant level, the incumbent assists Contract Specialists in the administration of complex contracts including monitoring performance and negotiating and writing modifications. Reviews

No. 24-019,

Communication Specialist/Security

Specialist, DS/DA-393/080-1/2/3, Code 2408

- This position is located in the Communications Security Office, Safety and Security Department. Incumbent assists the COMSEC Officer as the CMS and primary alternate custodian for the center. **Job Relevant Criteria:** Ability to communicate orally; ability to communicate in writing; ability to interpret and implement written instructions;

knowledge of COMSEC doctrine and practices. Promotion potential DA-3.

No. 26-026, Planner and Estimator (General), WD-6701-8, Code 2613 - This position is located in the Maintenance Control Division, Public Works Department. The incumbent provides detailed manpower/material estimates in support of facility maintenance for the Center. Investigates all work requests in areas of alteration, maintenance and repair of structures. Estimates labor cost and material requirements for areas listed above. Requests engineering design plans for Public Works Engineering Division as required. Prepares contract documents and cost estimates for budgetary review. Project coordinator duties are assigned occasionally. Performs structural inspection of buildings. The incumbent has quality control responsibility on all facility conditions. **Job Relevant Criteria:** Ability to facilitate production; knowledge of technical practices; ability to interpret instructions, specifications, etc.; knowledge of pertinent materials; and knowledge of pertinent tools and equipment. Architectural, plumbing, mechanical and/or electrical experience is desirable. Promotion potential to WG-6701-8. NOTE: SUPPLEMENTAL EXPERIENCE STATEMENT IS REQUIRED and may be picked up at the Human Resources Department, 505 Blandly, Room 100.

contract files for proper format, documentation and input into automated information processing system. Maintains extensive status of action items for the section. **Job Relevant Criteria for DG-2:** Knowledge of Federal Contract Procedures; ability to read and correctly review contracts; ability to organize file documentation; ability to prioritize and process in an orderly manner, multiple tasks simultaneously. **Job Relevant Criteria for DG-3:** Knowledge of Federal Contract Procedures; ability to compile data and information for negotiation; ability to assemble more complex contracts. Procurement Clerk (Typing)/Assistants have promotion potential to DG-3, however it is not guaranteed.

No. 26-027, Clerk-Typist, DG-322-1, Code 2651 - The incumbent will provide clerical and administrative support to the Facilities Acquisition Branch and the Utilities Operations Branch. **Job Relevant Criteria:** Ability

to deal effectively with people; ability to organize work; and ability to communicate orally and in writing. Knowledge of Public WRTS tracking system, and experience with the VAX or PC computer is desirable. Promotion potential to Secretary (Typing), DG-318-2.

No. 39-035, Supervisory Interdisciplinary (General/Electronics/Electrical Engineer/Physicist), DP-801/855/850/1310-3/4, Code 3931 - This position is that of Head, Advanced Proximity

Sensors Branch, located in the Fuze Sensor Systems Division, Intercept Weapons Department. This branch performs advanced development, engineering development, and production support of proximity sensor systems and related test equipment for air and surface launched guided missiles. The incumbent is responsible for providing technical and managerial leadership to a team of scientists, engineers, and technicians and reports directly to the Division Head. In addition, the incumbent is responsible for interfacing with all levels of NWC management, program offices, SYSCOM sponsors, other government agencies and services, and development contractors. Previous experience in full-scale development is desirable. **Job Relevant Criteria:** Knowledge of electronic design principles and radio frequency/microwave and/or electro-optical sensor systems; ability to communicate orally and in writing; ability to communicate orally; ability and willingness to support NWC EEO goals and policies. Incumbent may have to serve a one-year supervisory probationary period. Promotion potential to DP-4. Previous applicants need not reapply.

No. 26-028, Engineering Technician, DT-802-1, Code 2651 - This position is located in the newly formed Facilities Acquisition Branch of the Facilities Business Office which is responsible for the planning, design layout and maintenance of real property and for overseeing the construction of facilities. **Job Relevant Criteria:** Knowledge of Public Works Organization/procedures; knowledge of engineering drawings and documentation; knowledge of computer aided design equipment; ability to utilize computer controls for energy management; and ability to communicate orally and in writing. Promotion potential to DT-3.

No. 28-010, Administrative Officer, DA-341-2/3, Code 28302 - This position is the Administrative Officer for the Budget and Resource Analysis Division, Code 283. The incumbent performs the full range of administrative functions within the division. Principle duties include fiscal (preparation of budgets, monitoring, and analysis), personnel, procurement, and facilities support. The incumbent is also involved in special studies for the division, branches, and/or department. The ability to be discreet is desirable because of sensitive issues in which the incumbent is involved. Incumbent should have good interpersonal skills. **Job Relevant Criteria:** Knowledge of NWC budgeting and accounting processes; knowledge of personnel policies and procedures; knowledge of procurement procedures; knowledge of facilities procedures; knowledge of principles in conducting a study and producing findings and recommendations is desirable; ability to communicate both orally and in writing. Promotion potential to DA-3. Previous applicants need not reapply.

No. 39-039, Administrative Officer, DP-341-3, Code 3902 - This position is Head of Staff, Intercept Weapons Department. The incumbent provides comprehensive administrative staff managerial guidance and direction for the department. Responsible for the establishment, effective implementation and execution of department policies and procedures. Incumbent originates, coordinates and/or reviews documentation and programs for resource management and organizational analysis such as technical and overhead budgets, personnel and space requirements, manage to payroll; serves as a member of department management boards and committees; and supervises personnel in department staff office. **Job Relevant Criteria:** Knowledge of NWC financial accounting systems, terminology, and procedures; knowledge of facilities, equipment and space management; knowledge of automated management information systems; knowledge of personnel management; ability to plan and organize work; ability to exercise originality and initiative in dealing with

organizational issues; ability to conduct studies and analysis; ability to delegate; ability to effectively communicate orally; ability to effectively communicate in writing; knowledge of and willingness to support NWC EEO program goals and objectives. Incumbent may have to serve a one year supervisory probationary period.

No. 62-043, Engineering Technician, DT-802-2, Code 62122 - This position is located in the Environmental Test Section. The incumbent assists in the instrumentation setup, conducts environmental testing of various ordnance items and weapons. Testing includes vibration, shock, temperature, humidity. Performs post-test inspection, records and analyzes test data and assists in test fixture fabrication. Familiarity with environmental data recording devices and environmental test equipment maintenance is desirable. **Job Relevant Criteria:** Knowledge of ordnance environmental testing; knowledge of ordnance safety and operating procedures; ability to communicate both orally and in writing. Ability to work as a team member. Promotion potential to DT-3.

Apollo seminar

On Dec. 6 and 7, Apollo Computer, Inc. will host an Apollo Computer seminar, featuring "One Stop Workstation Solutions," at the Enlisted Mess.

From 9 a.m. to 6 p.m. on each day, demonstrations and presentations on the DN10000 100 MIPs, 36 megaflops personal super computer, 68030 — based desktop workstations; case tools; EDA from Mentor Graphics; MCAD/CAE from SDRC; UNIX running Versacad; network computing; Apollo benefits in your VAX, PC and MAC environments.

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. 31-065, Interdisciplinary (Electronics/Mechanical/General Engineer/Physicist), DP-855/830/801/1310-2/3, Code 3132 - The special projects branch of the EW Avionics Division has an exciting opening for a creative engineer or scientist with a strong interest in system integration, developing new EW and avionics interfaces, and getting new equipment installed in current and future aircraft. The incumbent is responsible for integrated defensive avionics program (IDAP) interfaces and equipment integration into the FA-18 and A-6 aircraft. Also, assisting in the design and installation of the EW avionics integration laboratory. The incumbent will also be responsible for interface status and documentation. The incumbent must currently possess or be able to obtain and maintain a Top Secret clearance. To apply, send current SF-171 to Penny Bott, Code 3132, NWC ext. 1576. Previous applicants need not reapply.

No. 31-074, Interdisciplinary (Aerospace/Mechanical/General Engineer), DP-861/830/801-2/3, Code 3182 - This position is located within the Weapons Survivability Lab (WSL), Survivability & Lethality Division, Aircraft Weapons Integrations Department. The incumbent is responsible for the design, development, and implementation of hardware and facilities supporting survivability and aerodynamic test programs. Tasks routinely involve design of large steel structures, aircraft modifications, unique test support equipment, pneumatic and hydraulic systems, and computer aided design and analysis. The incumbent monitors fabrication, installation, and operational checks of completed designs. The incumbent will also be responsible for a major expansion of the WSL's airflow facility. Tasks in this area include the design of subsonic nozzles and ducts, and the coordination of jet engine installation, control system design, and structural fabrication efforts. Ancillary duties include acting as a general engineering consultant and a range engineer in support of all WSL programs. To apply, send a current SF-171 to Dennis Sorges, Code 3182, NWC ext. 6401.

No. 32032, Interdisciplinary (General/Electronics/Mechanical Engineer/Physicist), DP-801/830/855/1310-2/3, Code 3292 - Incumbent is involved in the design, test and evaluation and production monitoring of arming-firing devices and related auxiliary components for use on rocket motors. Duties include: engineering design and performance analysis; environmental and field-testing;

technical specification and documentation configuration reviews; quality monitoring and technical reporting. Promotion potential to DP-3, but not guaranteed. Status eligibles may apply. Interested applicants should submit a current SF-171 to Lee Sutton, Code 3292, 939-7611, ext. 350.

No. 61-007, Mechanical Engineer, DP-830-2, Code 6133 - This position is project engineer for the QF-86F Drone Program and Aircraft modification for the Aircraft

Department. The key activities involve repairs, rebuilds and modifies aircraft components to meet the Navy requirement per their maintenance procedures. Also designs and approve all structure modification to aircraft assigned to NWC Aircraft Department. Develops test procedures and maintenance instructions for modified components to be used on the Navy Drone Program. Send copy of current SF-171 to Max Lawson, Code 6133, NWC ext. 5383. Promotion potential to DP-3.

Secretarial opportunities

This column is used to announce secretary positions for which the duties and job relevant criteria are generally similar. Secretaries serve as the principal clerical and administrative support in the designated organization by coordinating and carrying out such activities. Secretaries perform numerous tasks which may be dissimilar. Positions at lower grades consist primarily of clerical and procedural duties and, as positions increase in grades, administrative functions become predominant. At the higher levels, secretaries apply a considerable knowledge of the organization, its objectives and lines of communication. Depending on grade level, typical secretary duties are implied by the job relevant criteria indicated below. Applicants will be rated against four or more of the following job relevant criteria: (1) ability to perform receptionist and telephone duties; (2) ability to review, track, screen and distribute incoming mail; (3) ability to review outgoing correspondence; (4) ability to compose correspondence and/or prepare non-technical reports; (5) knowledge of filing systems and files management; (6) ability to meet the administrative needs of the office; (7) ability to train clerical personnel and organize workload of clerical staff processes; (8) ability to plan and coordinate travel arrangements; (9) ability to maintain and coordinate supervisor's calendar and to arrange conferences. Unless otherwise indicated, applicants for branch secretary will be rated on elements 1/2/3/5/8; division secretary applicants will be rated on elements 1/2/3/4/7/8/9; Program Office secretary applicants will be rated on elements 1/2/3/4/5/8/9; and department secretary applicants will be rated on elements 4/7/8/9. A SUPPLEMENTAL FORM IS REQUIRED AND MAY BE OBTAINED IN ROOM 100 OF THE PERSONNEL BUILDING.

No. 31-073, Secretary (Typing), DG-318-1/2, Code 3197 - Incumbent provides secretarial and administrative support to the AH-1 Systems Engineering Branch. Experience on PCs desirable, but will train. Promotion potential to DG-2.

No. 31-067, Secretary (Typing), DG-318-1/2, Code 3146 - This position provides secretarial and administrative support to the A-6/AH-1 Weapons Integration Branch. Ability to develop proficiency in the operation of a desktop personal computer is

required. Knowledge of a Xerox 860 word processor is desirable. Previous applicants need not reapply.

No. 31-070, Secretary (Typing), DG-318-2/3, Code 315 - Incumbent will provide secretarial support to the Targeting Division of the Aircraft Weapons Integration Department. Experience with the Macintosh II and shorthand desirable. Promotion potential DG-3. Previous applicants need not reapply.

No. 35-030, Secretary (Typing), DG-318-2/3, Code 356 - This position is located in the Missile Software Division of Code 35. The Incumbent provides secretarial and administrative support to division head and staff. The division consists of seventy employees. Other duties include coordinating the workload of the division clerical staff. Ability to work with deadlines in a complex environment is necessary. Experience with the Xerox STAR is desirable. Promotion potential to DG-3.

CSUB advisors schedule visit

Academic counselors of Cal-State Bakersfield will be on-Center Nov. 28 to advise current and prospective students in the external degree programs offered by that school.

Those who wish to see one of the academic counselors are asked to make an appointment by telephoning Helen Benes at NWC ext. 2648.

CSUN

EE 480N: Fundamentals of Control Systems (3 units) Formerly EE 468)

January 31 - May 23, Tuesdays and Thursdays; 1610-1740; Training Center. By Mr. Donald Quist, NWC ext. 6275.

Prerequisite: EE 350N: Linear Systems I (formerly EE 360A) or equivalent, or consent of instructor.

Scope: A review of the relations between transient responses, systems transfer functions and methods of specifying system performance. Analysis and synthesis of feedback control systems by means of root-locus methods. Nyquist diagrams, phase-gain-frequency diagrams. The use of compensating networks to optimize control system performance.

Text: *Linear Control System: Analysis and Design.* John J. D'Azzo and Constantine Houpis. McGraw-Hill, second edition.

Note: This is a senior elective in the BS EE program through Cal-State Northridge.

Math 477: Differential Equations (5 quarter units)

January 6 - March 10, Fridays; 1610-2110; Training Center. By Professor El-Ansary, CSB, (805) 664-2130.

Prerequisite: Calculus III or consent of the instructor.

Scope: First-order differential equations; linear differential equations; linear systems; Laplace transform and its application to solutions of linear differential equations and systems; series solutions of second-order linear equations and/or numerical solutions of differential equations; topics in nonlinear differential equations and systems; applications.

Note: Either this course or Math 6d: Calculus IV at Cerro Coso is required for the BS EE program through Cal-State Northridge.

For more information about any of these programs or classes, contact Cecil Webb at NWC ext. 2648.

Licenses necessary

All dogs four months of age and older require a dog license if they are kept in Kern County. To help residents of the Indian Wells Valley, Kern County Animal Control Services will now sell county dog licenses in Ridgecrest.

County licenses are now on sale at the Kern County Administrative Building, 400 N. China Lake Blvd. from 11 a.m. to 3 p.m. each weekday. City dog licenses are still available at the Ridgecrest City Hall.

Licenses are required for all dogs by state law and county ordinance. The license fees are \$12 a year. Spayed or neutered dogs can be licensed for just \$3 per year.



NEW CRAFT/HOBBY SHOP NEARING COMPLETION—Located in front of the Youth Center, the shop is scheduled to open in January. The new facility will house a larger inventory of greenware for ceramics classes, five kilns, several classrooms, woodworking area and supplies and other new equipment. For more information contact Carol Hape, NWC ext. 3252.

City celebrating its 25th

On Tuesday, Nov. 29, the City of Ridgecrest will celebrate the 25th anniversary of its incorporation with a gala banquet in Joshua Hall at the Desert Empire Fairgrounds.

Five hundred persons are expected to attend, according to Dinner Committee Chairman Carol Beck.

Invitations have been sent to past mayors and city councils, with a confirmed reply received from one of the first city councilmen, Weldon Jules.

Activities for the evening include an historical slide show presented by Larry Fox, proclamations read by local and state dignitaries, a performance by The Sweet Adelines, and Bill Thurm will speak on the history of the incorporation of the city.

Tickets for the event, at a cost of \$16 per person, will include a roast beef dinner. Tables of eight will be available.

Tickets may be purchased from the

Ridgecrest Chamber of Commerce.

Groups, organizations, and individuals are also encouraged to participate in the event by "being a star." They are asked to create a cardboard star, gaily decorated and signed, which will then be hung from the ceiling on the night of the dinner.

The stars, which should be one to two feet in diameter, may be left at City Hall, the Chamber of Commerce, or any local realty office.

Exchange now accepts plastic

To make shopping easier and more convenient, the Navy Exchange accepts MasterCard, Visa and the Discover Card.

A word to the wise to all Santa's helpers...the early shopper gets the best selection.

THAI-ASIAN MARKET
LUNCH SPECIALS

<p>THAI-BUFFET ALL YOU CAN EAT! Mon.-Wed.-Fri \$4.50 10 a.m. - 3 p.m.</p>	<p>MONGOLIAN BUFFET ALL YOU CAN EAT! Tue.-Thur. \$4.50 10 a.m. - 3 p.m.</p>
---------------------------------------------------------------------------------------------------------	-----------------------------------------------------------------------------------------------------------

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Preschool Ages 3-5

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Phone rules still apply for Center

Naval Weapons Center employees are again reminded that they must not directly or indirectly use NWC facilities, property or manpower to conduct personal business by advertising their Center office telephone number as a contact with intent to sell or buy personal property such as automobiles, household items or recreational vehicles.

There has been a recent increase in use of office telephone numbers being used in advertising of local publications in recent months. All military and civilian personnel should be sure they understand and comply with NWC Notice 5370 *Standards of Conduct Policy.*

Police set radar zones

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

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

- *Monday — Knox Road
 - *Tuesday — Inyokern Road
 - *Wednesday — Lauritsen Road
 - *Thursday — Richmond Road
 - *Friday — Burroughs Road
- Violations may be cited at anytime as well as in areas other than the ones mentioned above.

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Northridge announces spring classes

Following are classes being offered this spring for the Cal-State University Northridge (CSUN) Engineering Program (bachelor's and master's degrees). To enroll in these classes, submit an on-Center Training Request (NAVWPNCEN 12410/73) via department channels to Code 224. 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.

AM 421: Aerostructures (3 units)
February 2 - May 25, Thursdays; 1530-1830; Training Center. By Professor Ehrigott, CSUN, (818) 885-2166.

Prerequisite: AM 340: Advanced Statics and Strength of Materials is recommended, but not required.

Scope: Introduction to basic theory of aircraft and missile structural analysis; torsion of multicell sections, elastic axis wing sections, warping of box beams, shear webs with web cut-outs; shear lag; origin of thermal stresses; external constraints; fundamental equations of uncoupled isotropic thermoelasticity and their applications in aircraft structures.

Text: *Aircraft Structures*. David J. Peery and J. J. Azar. McGraw-Hill, 1982, second edition.

ME 572: Advanced Topics in Aero-Propulsion (3 units)

February 1 - May 24, Wednesdays; 1610-1910; Training Center. By Dr. Gutmark, NWC ext. 1079.

Prerequisite: ME 472: Thermal

Power Systems and ME 490: Fluid Dynamics, or equivalent or consent of instructor.

Scope: Elements of fluid mechanics and combustion applied to the design of components and to system analysis of various classes of rockets and air-breathing clusters. Liquid, solid and hybrid propellant rockets, ram jet, ram rocket and gas turbine. Emphasis on air-breathing applications in both subsonic and supersonic flight regimes.

Text: *Mechanics and Thermodynamics of Propulsion*. Hill and Peterson. Addison-Wesley, latest edition.

IE 501: Engineering Statistics (3 units)

January 30 - May 24, Mondays 1610-1810; Wednesdays, 1610-1710; Training Center. By Mr. Ronald Merritt, NWC ext. 4652.

Prerequisite: An undergraduate course in probability and statistics or consent of instructor.

Scope: Application of statistical estimation and hypothesis testing methods to selected problems in engineering, such as quality control, acceptance sampling, design of engineering experiments and determining statistical validity of engineering data.

Text: *Introductory Engineering Statistics*. Gutman and Wilks and Hunter. Wiley, third edition.

Note: This is a core course in the master's degree program in systems

engineering through Cal-State University Northridge.

AM 317: Mechanics Laboratory (1 unit)

January 30, Monday, 11:30-12:30, will be the first class meeting at the Training Center. Because this is a laboratory course, subsequent class meeting times and locations will be arranged with the class by the instructor, Dr. Frank Wu, NWC ext. 3632.

Prerequisite: AM 316: Engineering Dynamics or equivalent.

Scope: Experimental analysis of the responses of various configurations of deformable solids to static and dynamic forces. The course will average one three-hour laboratory per week.

Note: This is a required course in the BS EE program through Cal-State Northridge.

Systems engineering students, please note!!! A required foundation course for the systems engineering program through Cal-State University, Northridge is IE 227: Engineering Materials or equivalent. For those in the program who have not had such a course, the following Cerro Coso Community College course being taught in the spring will satisfy the requirement — ENGR 23: Properties of Materials.

EE 560N: Modulation Theory (3 units) (Formerly EE 557A)

February 1 - May 24, Wednesdays; 1610-1910; Training Center. By Professor Petit, CSUN, (818) 885-2190.

Prerequisite: EE 466A: Introduction To Communication Systems and EE 505: Random Processes, or equivalent or consent of instructor.

Scope: Modulation systems are treated on a unified basis consistent with modern information theory. The discussion of information and statistical communication theory is limited to developing concepts and quantitative criteria with which the performance of these systems, when noise is present, can be measured and compared.

Text: *Information Transmission, Modulation and Noise*. Schwartz. McGraw-Hill, third edition.

EE 571N: Microwave Engineering (3 units) (Formerly 561A)

January 31 - May 23, Tuesdays and Thursdays; 1130-1300; Training Center. By Dr. Wade Swinford, NWC ext. 2951.

Prerequisite: EE 471N: Fields and Waves II (formerly EE 461) is recommended, but not required.

Scope: The application of the concepts of modern network theory to waveguiding systems. Impedance transformation and matching, scattering matrix, propagation in non-isotropic media, passive microwave devices, electromagnetic resonators, measurements in microwave systems.

EE 560N: Modulation Theory (3 units) (Formerly EE 557A)

Leave Transfer

Employees indicated below have been approved to become leave recipients under the Leave Transfer Program. These employees have exhausted annual and/or sick leave because of personal emergencies and will be in a non-pay status for at least ten days. Employees who wish to help a leave recipient may donate annual leave to the employee. NAVWPNCEN 12630 provides specific information regarding how to donate annual leave.

Melvin R. Mather, Engineering Technician, Code 3921 — is currently undergoing treatment for lung infection and other ailments. His treatment has required additional hospitalization followed by an at home recuperation. He has exhausted all sick and annual leave.

William J. Soulek, Machined Parts Inspector, Code 3643 — was diagnosed as having an arteriosclerotic heart disease which he was hospitalized for. This disease has caused a financial hardship on him and his family. Soulek has exhausted all sick and annual leave.

Eleanor L. Semore, Senior Purchasing Agent, Code 25222 — has been diagnosed as having a cardiovascular disease. She was hospitalized for surgery and was off work from Nov. 18 until July 25. The loss of income is a severe hardship for her and her family. She has exhausted all sick and annual leave.

Kathy Culberson, Computer Systems Analyst, Code 3623 — has been diagnosed as having sarcoidosis which keeps her immune system weak. She is currently under doctor's orders not to return to work. Culberson is a single parent and sole supporter of her family. She has exhausted all sick and annual leave.

George Stillwell, Physicist, Code 3917 — has been diagnosed as having common variable hypogammaglobulinemia. Because of this illness, Stillwell has exhausted his sick and annual leave.

Stanford S. Foster, Industrial Equipment Mechanic, Code 26 — is presently in remission from his back surgery. He is working in a light duty status as he recuperates.

Glen L. Linden, Facilities Management Specialist, Code 2634 — is presently still off work and his return date is still unknown. He was hospitalized in June and has exhausted all sick and annual leave. The loss of income is a severe hardship for his spouse and family since he is the primary source of income.

Thomas A. Boyd, Visual Information Specialist, Code 3414 — is still under the care of a physician and his condition is still unstable at this time; however, he has been working three to four hours a day, as he can. Both sick and annual leave have been exhausted. Boyd is hoping his condition will improve soon so he will be able to return to full-time work.

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

Cerro Coso offering job searching training

Ann Benvenuti will instruct a one-unit course in "Job Search Skills" at Cerro Coso Community College this spring. A variety of topics relating to a job search will be covered, including networking, self-presentation, use of a resume, interviewing, job search stress and developing job

search attitudes. The course will meet on Wednesdays from 1 to 1:50 p.m. in Room 328 at the college.

"Diagnostic and Prescriptive Learning Skills" will be taught by Dottie Mott. This one-unit class is designed for the high-risk students who have the potential to benefit from

courses, but lack specific skills to succeed in those classes. The course offers four areas of service — diagnostic testing and observation, prescriptive teaching, one-to-one tutoring and support in subjects where students are having problems. The course meets on Tuesdays and Thurs-

days in Room 312 at the college from 1:30 to 2:20 p.m.

Early registration appointments for the new semester can be made by calling the college at 375-5001, Nov. 28-30 or Dec. 1-7 from 9 a.m. to 5 p.m.

KENETECH, a diversified group of companies in the alternative energy field currently seeks a Windplant Operations Supervisor in Northern California.

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English proficiency testing

On Thursday, Feb. 2, the English Writing Proficiency Test will be given to undergraduate and graduate students of Cal-State Northridge (CSUN). CSUN students should take the exam as soon as application for admission has been approved. Under-

graduate students must pass the exam before graduation. This test must be passed before the student is granted unconditional status as a master's candidate. Graduate students must attain unconditional status before earning

Chico, CUSB slate exams

Cal-State Bakersfield (CSUB) and Cal-State Chico (CSUC) undergraduates should mark their calendars for Jan. 10, when the Upper Division Writing Competency Examination will be given. By passing this examination, students may satisfy the writing competency requirements for

CSUB and CSUC. Cal-State Bakersfield undergraduates must have completed at least 90 quarter units of college work prior to taking the exam. Undergraduate students planning to take the Cal-State Chico course CSCI 172, Systems Architecture,

must pass the writing exam prior to the beginning of the course. The examination fee is \$12. Checks must be made payable to Cal-State Bakersfield. Students interested in taking the exam should contact Helen or Michelle at NWC ext. 2648.

TSP season ends Jan. 31

Another Thrift Savings Plan (TSP) open season began Nov. 15. The open season will close Jan. 31. New TSP booklets have been distributed to all employees. If anyone has not received a copy of this booklet, contact your division office. During the open season, NWC employees have the opportunity to

change their current enrollment, or make an initial participation election. Election forms processed by Dec. 30 will be effective the first pay period in January which starts Jan. 1. Enrollments received on or after Jan. 1 will be effective the beginning of the following pay period. Anyone wishing to change his or

her current enrollment, or begin participation in the Thrift Savings Plan, should contact the appropriate PMA to schedule a time to come into Personnel and complete the election form. For more information, call your PMA or Virginia Spille at NWC ext. 2592.

CSUN provides information

An information session will be held on Dec. 13 at the Training Center for those individuals interested in the on-Center master's degree program in systems engineering offered through California State University,

Northridge (CSUN). Professor Mel Lifson will provide information and answer questions on the master's degree program in systems engineering. Individual counseling by a CSUN adviser will be

available at a later date. Those interested in attending the information session are asked to call Helen Benes, NWC ext. 2648, to schedule their attendance.

Budget assistance

Take charge, don't overcharge! Plan your personal finances with the self-help budget planner "Be Money Wise" from your Navy Relief Society.

CSUB's offerings set this winter

This winter, the following classes are being offered for the Cal-State Bakersfield Bachelor's Degree in Business and Master's Degree in Administration programs. To enroll in these classes, submit an on-Center Training Request (NAVWPNCEN 12410/73) via department channels to Code 224. 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.

ADM 620: Financial Decision Making In Organizations (5 quarter units)
Jan. 10-Mar. 8, Tuesdays; 1610-2110; Training Center. By Professor Evans, CSB.

Scope: Public sector project appraisal, cost benefit analysis, estimating and forecasting revenues and costs, project planning and auditing, productivity measurement, debt administration, idle funds management and decision making under uncertainty.

MGT 302: Introduction to Operations Management (5 quarter units)
Jan. 12-Mar. 10, Thursdays; 1610-1910; Training Center. By Professor Vigen, CSB.

Prerequisite: MGT 301: Quantitative Methods and Information Systems or consent of instructor. **Scope:** An introduction to processes for planning, operations and control of manufacturing and service systems. Topics include design of production systems, production planning and control, plant layout, work measurement, quality control

and equipment utilization. **Note:** This is a core course for the Bachelor's Degree in Business Administration Program.

POL SCI 577: The American Defense Policy (5 quarter units)
Jan. 9-Mar. 20, Mondays; 1610-2110; Training Center. By Professor Lopez, CSB.

Scope: The objectives of this course are to equip students with essential critical and analytical skills; and to identify and interpret theoretical and pragmatic factors relevant to the formulation and execution of U.S. national defense policy. The course looks at the evolution of U.S. nuclear doctrine since the close of World War II, and focuses on the ramifications of nuclear weapons for U.S. defense and foreign policy-making. We will analyze the role of various actors (executive, legislative, public opinion, military, etc.) in the defense policy-making process. Finally, the course focuses on the international environment from a regional perspective with special attention given to the U.S. relationship with the Soviet Union, and the desirability and likelihood of an arms control agreement in the foreseeable future.

1. Textbooks are available at bookstores locally. **2. Job-related courses**, other than those listed above or those offered under contract with Cal-State Chico or Cal-State Northridge, must be approved on an off-Center Training Request (DD Form 1556) before registration if NWC is expected to pay for the training.

For more information about any of these programs or classes, contact Cecil Webb at NWC ext. 2648.

Hriber advises CSUN students

Professor Hriber of Cal-State University Northridge (CSUN) will be on-Center Nov. 28 to advise current and prospective students in the master's and bachelor's degree programs in electrical engineering offered by the school.

CSUN has external degree programs in electrical engineering, applied mechanics and mechanical engineering at NWC which lead to a master's degree. CSUN also has an external degree program in electrical engineering which leads to a bachelor's degree.

Those who wish to see Professor Hriber are asked to make an appointment by telephoning Helen Benes at NWC ext. 2648.

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M.S. Word on the Macintosh (16 hours)

December 12-13, Monday and Tuesday; 0800-1600; Training Center. By Donnie Goettig.

Prerequisite: Experience using the Macintosh computer — know how to create folders, initialize disks, copy disks and files, use the clipboard.

Intended Audience: Users of Macintosh computers who desire to learn the fundamentals of the MicroSoft WORD Program.

Objectives: In this course, you should learn to use the MicroSoft WORD program to create documents, move text between files using the clipboard and glossary, add, change, delete text, format using font and format, use the spell checking facility, paginate, print and save documents.

Note: Participants certify on the enrollment form that you meet the prerequisite for this class.

Deadline: November 28.

VAX/VMS For Beginners (20 hours)

December 19-23, Monday through Friday; 0800-1130; Training Center. By D. Vaughn, Code 224.

Prerequisite: Some familiarity with computer terminals.

Scope: Topics include logon/logoff, use of command line construction, file specifications, phone and mail utilities, wild cards, digital command language (DCL) commands, directory hierarchies, file protection, symbols and logicals and the VAX editor (EDT).

Note: This class is for beginning VAX users who are nonprogrammers. Enrollment preference will be given to users on installed VAX systems.

Presentation Method: Workshop. **Deadline:** December 2.

Intro to IBM Personal Computing (20 hours)
January 9-13; 0800-1130; Training Center. By D. Vaughn, Code 224.

Prerequisite: None. **Intended Audience:** Beginning users of IBM-PC compatible computers.

Scope: A survey introduction to the use and operation of an IBM personal computer including:

- Using the MS-DOS operating system to format disks, copy files, and install and maintain software and data files.
- Using the IBM-PC to operate a word-processing program, a database program, and a spreadsheet program.

Presentation Method: Hands-on workshop. **Deadline:** December 23.

NRS hours

Don't forget, the Navy Relief organization is available for your assistance on Monday, Wednesday and Friday from 11 a.m. to 2 p.m.

CSUC spring schedule

Following are classes being offered this Spring for the Cal-State Chico Computer Science Program (bachelor's and master's degrees). To enroll in these classes, submit a Training Request and Authorization Form (NAVWPNCEN 12410/73) via department channels to Code 224. 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.

CSCI 222: Expert Systems (3 units)
Dec. 10-11, Jan. 7-8, Jan. 28-29, Saturdays and Sundays; 0800-1600; Training Center. By Professor Huntsinger, CSUC.

Prerequisite: CSCI 151: Algorithms and Data Structures or equivalent, or consent of instructor. **Scope:** This course covers the basic concepts and techniques of current expert systems technology. The course emphasis is on expert systems shells and their use for specific applications. The use of the language Prolog (Programming and Logic) for expert systems applications will be included.

CSCI 250: Compiler Theory (3 units)
Jan. 21-22, Mar. 4-5, Apr. 1-2, Saturdays and Sundays; 0800-1600; Training Center. By Professor Madrigal.

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

Scope: Language definition and descriptors, syntax structures, parsing, extraction of elements, symbol table construction, memory allocation, control statements, I/O lists, code generation, error detection, diagnostic generation.

CSCI 251: Advanced Software Practices (3 units)
Apr. 15-16, May 13-14, June 17-18, Saturdays and Sundays; 0800-1600; Training Center. By Professor Luker, CSUC.

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

Scope: A study of how an advanced programming language and software environment (Ada) should be used, from the viewpoints of portability, style and software engineering practice.

CSCI 152: Operating Systems Programming (3 units)
Feb. 3-4, Feb. 24-25, Mar. 31-Apr. 1, May 5-6, Fridays, 1400-1800; and Saturdays, 0800-1600; Training Center. By Professor Luk, CSUC.

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

Scope: Operating system concepts and techniques. Course includes study of linkage-editors, loaders, channel operations and interrupt handlers. **Note:** There will be a two-hour laboratory each week. The time and day of the week the laboratory will be held will be arranged between the class and the teaching assistant for the course. This is a core course for the BSCS degree program and a foundation course for the MSCS degree program through CSUC.

CSCI 356: Design and Analysis of Algorithms (3 units)
Jan. 24-May 18, Tuesdays and Thursdays; 1230-1345; Training Center. By Professor Wooldridge, CSUC, via satellite.

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

Scope: In-depth study of the design of efficient algorithms and associated data structures. Focuses on space/time performance analysis of algorithms. Topics include algorithm analysis techniques, searching and sorting, graph algorithms, numerical algorithms, combinatorial algorithms, NP completeness.

CSCI 397C-2: Computer Performance Analysis (3 units)
Jan. 24-May 18, Tuesdays and Thursdays; 1100-1215; Training Center. By Professor Vayda, CSUC, via satellite.

Prerequisite: CSCI 152: Operating Systems Programming, CSCI 172: Systems Architecture, and Statistics and Analytic Geometry and Calculus I, or equivalents, or consent of instructor.

Scope: A study of the methods for the measurement and modeling of computer systems, with the goal of identifying the parameters that determine system performance. Systems considered will range from simple uniprocessor batch systems to multiprogrammed multiprocessor distributed systems. The approach is pragmatic and is targeted at the practitioner. Case studies drawn from real situations will be used to illustrate methodologies for improved program/system performance. The knowledge acquired can be applied to system procurement, design, modification and tuning.

Math 477: Differential Equations (5 quarter units)
Jan. 6-Mar. 10, Fridays; 1610-2110; Training Center. By Professor El-Ansary, CSB, (805) 664-2130.

Prerequisite: Calculus III or consent of the instructor.

Scope: First-order differential equations; linear differential equations; linear systems; Laplace transform and its application to solutions of linear differential equations and systems; series solutions of second-order linear equations and/or numerical solutions of differential equations; topics in nonlinear differential equations and systems; applications.

Note: This is a required course for the math/science option of the BSCS degree program through CSUC.

For more information about any of these programs or classes, contact Cecil Webb at NWC ext. 2648.

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Kaiser HMO extends area of coverage

Kaiser Foundation Health Plan, Inc. — Southern California Region, has extended its area of health coverage to include many parts of Kern County.

People living in areas with the following Zip Codes are now eligible to participate in this Health Maintenance Organization plan. The Zip Codes now included in Kaiser coverage are 93203, 93205, 93206, 93215, 93217, 93220, 93224, 93226, 93238, 93240, 93241, 93250, 93251, 93252, 93261, 93263, 93268, 93276, 93280, 93285, 93287, 93301-09, 93311-13, 93380, 93385-89, 93518, 93531 and 93561.

People working at the Naval Weapons Center but living in these areas can check with the Employee Relations Assistance Program Office, NWC ext. 2592, for more information.

Advisor sets visit

Dr. Orlando Madrigal of Cal-State University Chico will be on-Center Dec. 2 to advise current and prospective students in the external degree programs offered by the school.

Cal-State University Chico has external degree programs in computer science which lead to bachelor's and master's degrees.

Those who wish to see Dr. Madrigal are asked to make an appointment by telephoning Helen at NWC ext. 2648.

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