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For more Info Contact:

NWC Rocketeer

Naval Weapons Center, China Lake, California 93555-6001

Vol. XLIV, No. 44/November 10, 1989

Thirty years at NWC bring recognition

Shortly after retiring from the Naval Weapons Center in early October, Barbara Gonder received a pleasant surprise when she was honored with the Navy Meritorious Civilian Service Award. Working more than three decades as a mathematician at China Lake, she has touched nearly every data reduction effort undertaken here. Capt. Douglas Cook, NWC Commander, presented the medal and citation to Gonder before coworkers and friends gathered in

Michelson Lab.

She was nominated for the award by William Ball, head of the Information Systems Department, based on her 30 years of contributions to the Center and the Navy in the areas of development of computerized analysis systems for range test data, of experimental computer operating systems, of hybrid computing for missile and aircraft simulation, and for management information systems analysis, design,

development and implementation.

Gonder's career accomplishments were additionally recommended for formal recognition by Dillard Bullard, as head of the Intercept Weapons Department, and Paul Homer, head, Attack Weapons Department, in letters to Ball. Her past contributions and more recent support in providing management information systems to the departments did not go unnoticed.

Homer's tribute related, "While she is characterized by her peers as brilliant, she has had a relatively low-profile career, and yet has truly left her mark in the technical progress she has made such substantial contribution to."

Bullard's letter gave high praise for Gonder's cheerful and creative assistance. "There was never a task too small or too large. She always took the time to discuss (Continued on Page 7)



FOUR MORE--Standing in front of ancient petroglyphs created by Native Americans hundreds or thousands of years ago, AS1 Byron Booten (right) takes the oath of enlistment for another four years in the U.S. Navy. Lt. John Brookes, the helicopter pilot who flew Petty Officer Booten and the photographer to the petroglyphs on NWC's north ranges, administered the oath of enlistment for the veteran aviation support equipment technician. Photo by PHAN Cary Brady

Veteran civilian praised

Twenty-nine years of continuous dedication to duty at the Naval Weapons Center helped bring special recognition to Moyle Braithwaite early this week. Capt. Douglas W. Cook, NWC Commander, presented the Navy Meritorious Civilian Service Award to Braithwaite at Monday morning's Commander's Meeting.

The Skipper said it was "a real pleasure to be able to make the presentation." He noted Braithwaite is recognized as an expert in the ordnance field after spending his entire Federal career working on the design and management of ordnance systems

of the Ordnance Systems Department, noted Braithwaite had been directly responsible for development of two weapons now in use by the fleet, Gator Mine and Rockeye II. In addition, he was project engineer and then program manager for development of Skipper II at China Lake.

"Braithwaite demonstrated his technical skill and leadership in development of several weapons systems which are in the fleet today. He is an accomplished program manager, demonstrating the discipline and knowledge required to successfully execute the programs," added Anderson in the letter.

According to the citation accompanying the (Continued on Page 7)

Annual CFC drive needs late surge of donations

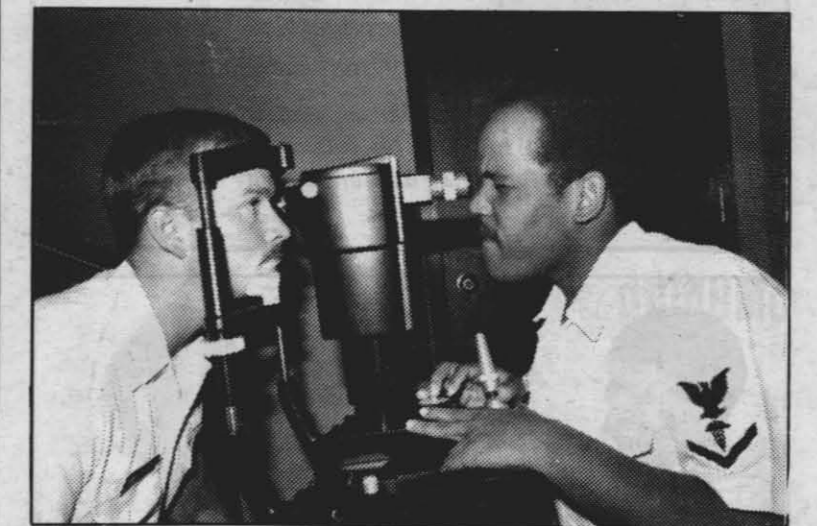
Only one week remains in the 1989 Combined Federal Campaign fund drive in the Indian Wells Valley. While more than \$139,000 in pledges of donations have been received thus far, the drive is far short of its goal for the year.

The CFC is the only on-the-job fund raising effort among federal employees each year. It combines into one short drive, dozens of individuals charitable organizations including the United Way of the Indian Wells Valley. Donations can be made by

check, or employees can have pledged amounts automatically deducted from their paychecks.

Locally, about 96 cents of every dollar pledges goes to charity, only about four cents of each dollar are used for administrative and fund raising expenses.

Payroll deductions are really the easy way to make a contribution to CFC and the community. China Lakers are urged to finish filling out the CFC pledge card they should have received last month and turn it in to their department key person.



TESTING EYE PRESSURE--HM3 Ted St. James is shown performing glaucoma testing on HM3 Sean Stratton with the NWC Branch Medical Clinic's new Non-Contact Tonometer. The tonometer, bought for the clinic by Naval Hospital Long Beach, directs a measured puff of air at the eye to measure intra-ocular pressure, and replaces older contact measurement methods. As this tonometer requires no prior application of an anesthetic solution to the eye, flight status personnel will not have to be grounded after testing.

China Lake Calendar

Thurs. Nov. 9
 ...U.S. Marine Corps 214th Birthday Ball, Seafarer's Club

Fri.-Sat. Nov. 10-11
 ...West Side Story CLOTA musical, 7:30 p.m., Burroughs Lecture Center
 ...Seafood Truckload Sale, 9 a.m.-5 p.m., Navy Exchange Parking Lot

Sat. Nov. 11
 ...Veteran's Day Program, 10:30 a.m., VFW Ship 4084, 117 Alvord St., Ridgecrest
 ...Saturday matinee, *Benji the Hunted*, 2 p.m., NWC Theater

Mon.-Tues. Nov. 13-14
 ...Open Season Health Benefits Fair, 7:30 a.m.-4:30 p.m., Training Center, Rm. 115

Wed. Nov. 15
 ...SOLE meeting features CALS, 11 a.m. at the Hideaway
 ...Shoemobile, 7:30-9 a.m., corner of Hussey and Nimitz

Thurs. Nov. 16
 ...American Cancer Society's Great American Smoke-out
 ...Society for Technical Communicators meeting, 7:30 p.m., Maturango Museum
 ...AOC meeting, 4:30 p.m., Mich Lab, 1000-D

Coming attractions:
 *Health Insurance Open Season, Nov. 13-Dec 18.
 *Community Thanksgiving Service, Nov. 19
 *20th Annual Children's Christmas Parade, Dec. 2

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



WELL DONE--Gene Younkin (right) accepts his Sidewinder Technical Award from former Sidewinder Technical Manager, Jim McCalester, at a surprise ceremony thrown last month.

Wellness Corner

Low Cost Blood Analysis Continues...

Many of the items in the Wellness Program fall blood analysis profile reflect kidney and liver function as well as cardiac factors. The panel offered in the spring will be limited to the traditional cardiac factors. The blood test analysis will include: A/G Ratio, Albumin, Alkaline Phosphatase, Bilirubin, Bun/Creatinine Ratio, Calcium, Chloride, Cholesterol (Total Cholesterol, HDL, LDL, Risk Ratio), Creatinine, GGTP, Globulin, Glucose, Iron, LDH, Magnesium, Phosphorus, Potassium, SGOT, SGPT, Sodium, Total Protein, Triglycerides, Urea Nitrogen (BUN), Uric Acid, Complete Blood Count with differential and platelet count. You must abstain from eating any food or drinking anything other than water for 12 hours before the blood draw. The draws will be from 7 to 9 a.m. on the dates and at the locations listed below. The cost for the analysis is \$16. Payment is required at the time of the draw. Make checks payable to MWR-REC. Appointments may be made on any computer or terminal that will connect you to the SCF VAX (SCFF, SCFB, SCFC). You do not need an account number. When "user name" appears on the screen, type in Wellness. Options will appear for scheduling or deleting appointments for the blood draw. If you cannot access the SCF Vax terminal, call NWC ext. 2468 and we will help you. If you have further questions or need additional information call Betty Miller or Pat Oliver at the Wellness Program Office, NWC ext. 2468.

DATE	LOCATION
Nov. 14	•Michelson Lab, Little D Conference Room
Nov. 15	•Michelson Lab, Little D Conference Room
Nov. 16	•Michelson Lab, Little D Conference Room •CLPL (contact Judy Schoepflin, NWC ext. 7322 for appt.)
Nov. 17	•Michelson Lab, Little D Conference Room

China Lakers accepted the challenge

Over 628 people were involved in the China Lake Challenge this year. The department with the most participants was Code 32 with 102 participants. The department with the highest percentage of participation was Code 232, the Branch Medical Clinic. Code 25 had the second highest percentage of participation. Kathy Rindt, Code 25, had the highest single participation: she was in a total of 14 events. Congratulations to all who were involved.



Sidewinder award goes to Younkin

Recognized for his many contributions to the Sidewinder missile program, Gene Younkin is the latest recipient of the Sidewinder Technical Award for outstanding technical accomplishment. Former program manager, Jim McCalester, presented the award "to NWC's oldest-lived JP" at a surprise ceremony attended by Younkin's wife Elva, their friends and co-workers from the Electro-Optic Missile Systems Branch last month.

Younkin came to China Lake as a Junior Professional with a physics degree from UCLA in 1954 and began work in the Exterior Ballistics Branch of the Research Department. In '59 he became branch head of the System Analysis Branch of the Air-to-Air Weapons Division and was responsible for all Sidewinder 9-D simulation and analysis.

Early in his career, Younkin assisted in the development of one of the first Hardware-in-the-Loop simulators for Eastman Kodak.

His stability studies leading to the infamous 100ms servo amp time constant earned him a cash award, as did his suggestion that secretaries be trained in the Greek alphabet and typing equations, a

suggestion which also earned him friendly notoriety from NWC secretaries.

From '77 to '78 Younkin took an assignment as air-to-air technical coordinator for Top Gun at Naval Air Station, Miramar, where he developed and polished his ability to interface with pilots.

Since his return to China Lake, Younkin has performed as NWC's liaison with Sidewinder users. In this capacity, he conducts theory of operation classes for visiting squadron pilots and bombardier navigators who fire the missile. "Younkin has become a legend in (Continued on Page 5)



NWC Rocketeer

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HAPPY ADS.....	10	MISC. FOR SALE.....	40
HELP WANTED.....	15	GARAGE SALES.....	45
RENTALS.....	20	PETS & SUPPLIES.....	50
BUSINESS.....	25	REAL ESTATE.....	55

DEADLINE FOR ALL CLASSIFIED LINE ADS IS 4:30 p.m. WEDNESDAY - PRIOR TO FRIDAY PUBLICATION

15 HELP WANTED

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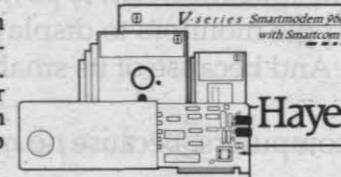
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Community Events

On Monday, Nov. 13, there will be a Sierra Amateur Radio Club meeting at James Monroe School, W. Church Street, at 7:30 p.m. The club meets on the second Monday of each month to discuss topics pertaining to amateur radio. The topic for this month is Emergency Preparedness in the Public School System and will be presented by Bruce Euld. The public is invited to attend. For further information contact Lloyd Brubaker, 375-7245, or Stan Sanders, 375-3258.

On Tuesday, Nov. 14, at 7:30 p.m. the Maturango Museum will host Roger Derryberry, sharing the adventure of balloon flight over fault lines and the Panamint Geoglyphs (age estimated at perhaps 8,000 years). This multimedia lecture using two projectors, a dissolve unit and music should be exciting, educational and absolutely spectacular. For more information, please call the Museum at 375-6900.

Capt. Douglas W. Cook, Commander of the Naval Weapons Center, will be the guest speaker at the Indian Wells Valley's Veterans and Fraternal Organizations Veteran's Day program. The program is open to the public and will be held at the VFW Ship 4084, 117 Alford St., Ridgecrest, on Saturday, Nov. 11. Assembly call will be at 10:30 a.m.

The following organizations will be participating: Veteran's of Foreign Wars Ship 4084 and their Auxiliary; Auxiliary Security Forces, China Lake; Barbershop Harmony Society; American Legion Post 684 and its Auxiliary; China Lake Branch 95, Fleet Reserve Association; Vietnam Veterans of America Chapter 135; World War I Veterans, Pearl Harbor Survivors Association; Knights of Columbus, Chief Petty Officer's Association, Ridgecrest Lodge 1913 Order of Elks; and others.

Explore health benefit options November 13 & 14

An Open Season Health Benefits Fair will be held Nov. 13-14 from 7:30 a.m. to 4:30 p.m. in the Training Center, Rm 115. You will be able to pick up 1990 brochures on all the plans. The following companies will have representatives on hand to answer questions and assist you:

Monday, Nov. 13: GEHA, BLUE CROSS/BLUE SHIELD, MAILHANDLERS, POSTAL SUPERVISORS, NFFE, POSTMASTERS, NAGE and

AFGE; Tuesday, Nov. 14: GEHA and POSTAL SUPERVISORS.

Aetna will no longer be available. Employees currently enrolled with them will need to select another plan during open season. Coverage under Aetna will be good until Jan. 13, 1990.

Employees must go to the Human Resources Department, 505 Blandly, to enroll in a new plan.

Technical societies

Association of Old Crows highlight TWT

On Thursday November 16, the Association of Old Crows will host a SECRET presentation on helix traveling wave tubes. Tom Grant, TWT Engineering Manager for Varian Corp. is the featured speaker. The presentation begins at 5 p.m. in Room 1000D of Michelson Lab. An NWC badge with appropriate access or a visit authorization request is required. Call Gail Slater at 446-5561 or Kathy at 446-7961 for more information on attending.

IEEE Wednesday meeting features Cal Energy

Members of IEEE and guests will hear Mark Sisinyak of California Energy Co. talk about the Coso Geothermal Development at their regular meeting on Wednesday, November 15. The meeting is set for 11:30 a.m. at El Charro Avitia Restaurant.

Society for Technical Communicators meet

Carroll Evans of the Maturango Museum board of directors is the guest speaker when members of the Society for Technical Communicators meets next Thursday, November 16 at 7:30 p.m. at the Maturango Museum. Evans will talk on how the museum communicates.

the great american smokeout
Nov. 16



Let the readers of the Rocketeer know where to shop for those Holiday Gifts.
Call: Sandy Ramirez 375-4481 to place a display ad.

Adopt a smoker Wellness offers kits for survival

Help smokers quit for a day as they participate in the Great American Smoke Out on Nov. 16. Adopt a smoker. Survival kits are available from the Wellness Program Office in Room 210 or 212 in the Training Center. Because there are only a limited number of kits available, they will be given out on a first-come, first-served basis.



	Max	Min	Gusts
Thurs.	71	27	6 knots
Fri.	75	28	7 knots
Sat.	83	33	4 knots
Sun.	80	31	14 knots
Mon.	80	41	9 knots
Tues.	80	41	6 knots

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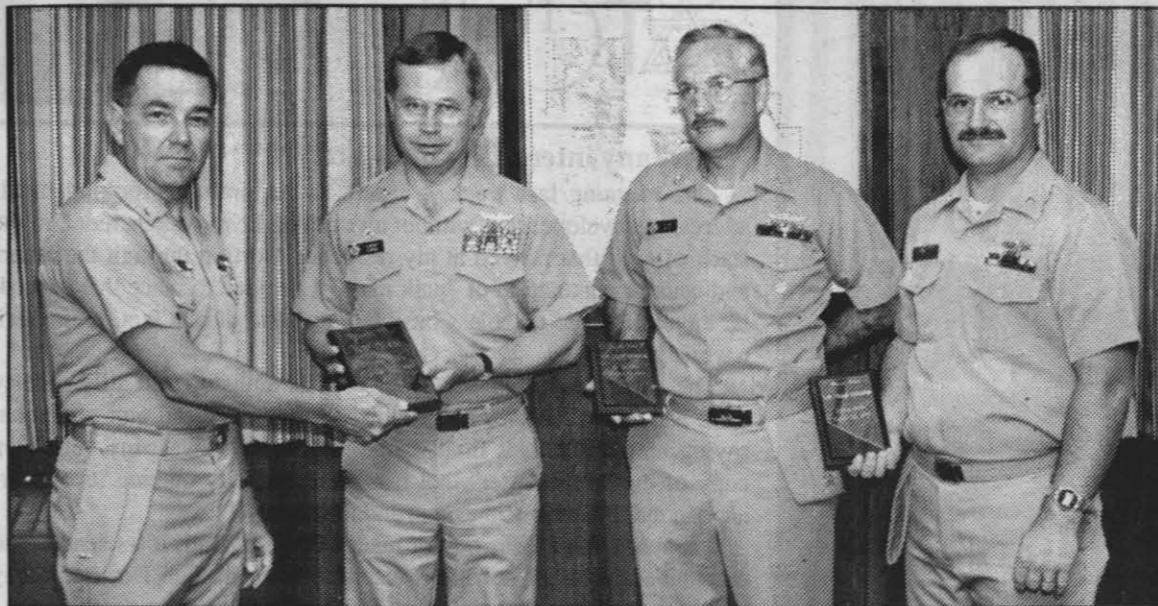
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Rifle team builds top reputation



ADDING ANOTHER TROPHY--CWO2 Nelson Foucher, NWC Rifle team captain, hands Capt. Douglas W. Cook, NWC Commander, the plaque which members of the NWC team won for the Center when they outshot 12 other military and civilian teams in the Nevada State Service Rifle Team Championship. FCCM Ralph Legler and GMC Ricky Hines (far right) hold the trophies they received for winning their individual events. Photo by PHAN Cary Brady

Unit adds Nevada title to impressive victory list

Once again the Naval Weapons Center Rifle team has added a shooting victory to its credit by running away with the Nevada State Service Rifle Team Championship. Thirteen military and civilian teams from California, Arizona and Nevada were represented at this event, which was recently held at Boulder City, Nevada.

Battling adverse weather and wind conditions, CWO2 Nelson Foucher, FCCM Ralph Legler and GMC Ricky Hines defeated the two-year reigning champion Nevada National Guard team by a resounding 34 points. "The large victory margin was due, in part," said team captain CWO2 Foucher, "to the team members experience in shooting under windy conditions and good team coaching."

Master Chief Legler placed second in the overall individual championship and first place in the 200 and 600 yard slow fire aggregate matches. A competitor since 1964, the master chief joined the NWC team in 1987. He distinguished himself, NWC, the fleet and the Navy this year by taking high individual in the Pacific Fleet, All Navy, Interservice and National Service matches. He is one of only two Navy individuals with a high masters certification in rifle competition.

In 1983, FCCM Legler became the first person in the Navy to win the President's 100 Match. This year, he came in second. "This has been a close year for me," the master chief said. "I just missed winning the President's 100 and the Interservice Match by one 'x'."

Chief Hines won first place in the 200 yard rapid fire match. While he has not been a competitive shooter for long, just since March, the chief petty officer is quickly adding points to be classified as a "distinguished" rifleman. The team captain said, "It isn't often a team is lucky enough to get someone who has such natural ability as Chief Hines. He's good now, but I predict in a few years he'll be excellent."

CWO2 Foucher helped organize the NWC team in 1981. A member of the Naval Reserves, the chief warrant officer noted, "We were the first to use active duty and reserve personnel on a team. We are now used as role models on other installations. Because active duty personnel are only here for a few years, rifle teams have a large turnover. The reserve members help to add stability to the team."

The team currently consists of three reservists and five active duty personnel. Members are CWO2 Foucher, GMC Hines, FCCM Legler, BU1 David M. Bowsby, ET1 Mark Mahoney, FCC Jeffrey J. Mattick, LN2 Frederick Peeler and AME1 Timothy Rieb.

The entire team competes in the Fleet Match, but only the top competitors are invited to represent the Pacific Fleet in the All Navy Match. From there, only the best are invited to represent the Navy and Navy Reserves at Nationals.

"NWC's Pistol team has won first place in the Pacific Fleet's Pistol Match for the past four years," CWO2 Foucher said, "In that same time frame, the rifle team has taken either first or second place in the Rifle Match."

Team recruitment is a must and constantly on the mind of the team captain. "I have one sailor who is going to spend as much of his shore duty at NWC as possible just because of the Rifle team," he said. "When I hear good shooters are up for rotation, I call them and try to persuade them to choose NWC as their next duty station. It's an ongoing job."

It takes a special person, male or female, who can devote the time and energy necessary to be a top-notch shooter, the captain noted. Most team members practice from 5 or 5:30 to 7 a.m. three mornings a week during the spring and summer and as often as they can during fall and winter. "To stay competitive, a shooter must be dedicated and willing to spend the time it takes to stay in practice," he said. "Practice is held in bad weather as well as good because matches take place in all types of weather."

"One of the reasons we are one of the most respected teams on the West Coast," CWO2 Foucher said, "is because most of our members are willing to dedicate themselves to this sport. It also helps we have such strong command support. We are proud to be able to represent NWC, the Pacific Fleet and the Navy and hope to continue being one of the best teams around."

Galley adjusts meal schedule

Annex will close for breakfast starting November 13

Changes are ahead for patrons of the galley at the Naval Weapons Center starting November 13.

In order to serve the customers better, the main and annex galleys will change hours of operation, effective that date. The

biggest changes will be that breakfast will no longer be served at the annex galley and an evening meal will be served Sunday through Thursday.

If you have any questions, please contact MS1 Haws at NWC ext. 3830.

New Main Galley Hours: Breakfast 0545-0715, Lunch 1130-1230, Dinner 1630-1745.

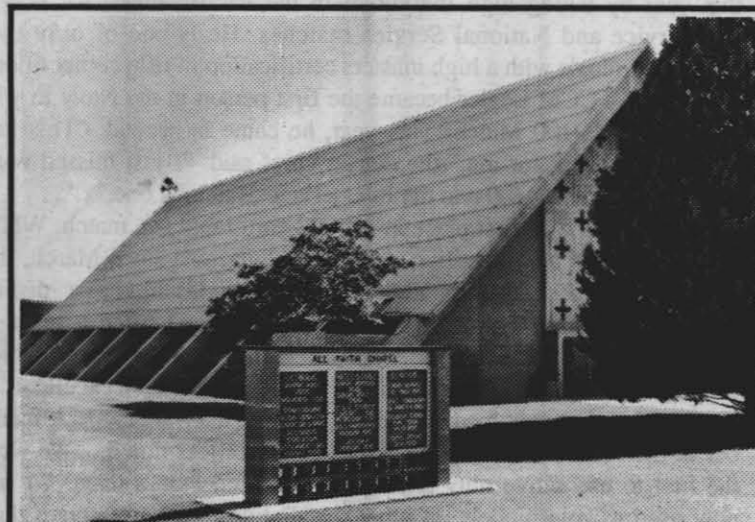
New Annex Galley Hours: Breakfast none; Lunch 1030-1300 (Mon - Fri); Dinner 1700 - 1830 (Sun-Thurs.)



THE FEW, THE PROUD--November 1 was a red letter day for Major Richard "Guy" Barr (center), executive officer of the Marine Aviation Detachment (MAD) at China Lake, as he was promoted to the rank of Lieutenant Colonel. Col. Barry Banks, MAD commanding officer, joined Barr's father, Richard, in changing gold leaves to silver on the LtCol.'s uniform. The airfield promotion was also attended by Barr's wife, Constance, and mother, Doris.



RETIREMENT CAKE--In the case of ending a Navy career, it's possible to have your cake and eat it too. Senior Chief Gerald Ott serves cake to his wife, Carolyn and daughter Jennifer at his retirement celebration recently.



Chapel
at
Call



"...Get any interesting mail lately???"

One morning last week, a small, rather ominous-looking hand-addressed envelope, sent without a return address, was included in the stack of mail that arrived at my residence. Sorting through the letters and usual accumulation of "junk mail," I decided to place this particular envelope aside for a less busy moment and did, in fact, return to it a while later.

The contents of this envelope were as amusing and silly as they were sad and offensive, and I slowly shook my head and remember saying aloud, "Well, it finally arrived!" There it was: my very own copy of the "chain letter" that has been stealthily making its appearance in mailboxes in Ridgecrest and on the base!

I suppose that it was only a matter of time. And, if its sender had entertained hopes of stirring a response in me, then I can certainly say that he or she succeeded. But, then again, this was inevitable too.

For those who have not been recipients of this "pie-in-the-sky" correspondence, let me say that it promises heaps of wealth, all generously supplied by God, and all for the price of passing it on to another deserving soul who, in turn, is asked to keep the "chain" going. The price for breaking the chain? A speedy demise, akin to being unexpectedly run over by straying camels, or incurring the curse of King Tut.

I mentioned earlier that I found the letter amusing and silly: like a transparent parlor-trick designed to grab the imagination quickly, but lose it just as quickly because it has no foundation in reality. Sad and offensive, because it is a not-so-subtle, insidious attack on authentic Christianity and genuine trust in the loving providence of God. The tragedy of reducing one's hope in the Lord to faithfully passing on a letter cannot but demonstrate an insufficient understanding of the kind of confidence in God's will for our salvation and well-being that is demanded by Jesus of his followers. This kind of "Tarot Card Christianity" would seek to manipulate God by confining his goodness to a piece of writing-paper passed on successively by a "lucky few" to a "lucky few."

When tempted by Satan to presume on God's love and generosity, Jesus clearly responded: "You shall not put the Lord your God to the test!" (Matt. 4:7) It would seem to me that the letter in question not only attempts to "test the Lord," but also provides the paper on which he is asked to write his response, so to speak. Placing one's trust in the Lord totally, without the luxury of predicting his will, is certainly a difficult task, but we cannot mouth the words "Thy will be done," and foolishly seek to control what that might be for us. Such preoccupation with the future is unchristian, to say nothing of unrealistic.

"Enough, then, of worrying about tomorrow," Jesus says. "Let tomorrow take care of itself. Today has troubles enough of its own." (Matt. 6:34)

By LCdr. S.A. Casimano, CHC, USN
Command Chaplain

Holiday hours for NWC activities

With tomorrow being a holiday for government workers, many activities will either be closed or operating under holiday hours.

Center Library -- open from 9 a.m. to 6 p.m. on Friday.
Child Care Centers & Youth Center -- closed Friday. The Youth Center, however, will be open on Saturday from 12:30 to 4:30 p.m. for skating enjoyment.

Seafarer Club -- closed Friday. The EM Bar will be open from 3 to 10 p.m. on Saturday.

Golf Course -- open Friday from 6:30 a.m. to 5:30 p.m.

Crafttech -- open Friday from 10 a.m. to 9 p.m.

Gymnasium Annex -- open Friday from 11 a.m. to 6:30 p.m.; open Saturday from 8 a.m. to 6:30 p.m.

O'Club Pool -- open Friday and Saturday for open swim from 10 a.m. to noon; half lap and half open swim from 3 to 4 p.m.

Hall Memorial Lanes -- open Friday from 11 a.m. to 11 p.m.

Auto Hobby Shop -- closed Friday, open Saturday from 9 a.m. to 6 p.m.

Divine Services

Protestant	
Sunday Worship Service, East Wing	8:00 a.m.
Sunday Worship Service, Main Chapel	10:30 a.m.
Sunday School, Annexes 1, 2 & 4	9:00 a.m.
Bible Study (East Wing), Wednesday (September thru June)	11:30 a.m.
Men's Prayer Breakfast, East Wing, Thursday	6:30 a.m.
Officers' Christian Fellowship/Christian Military Fellowships, East Wing, Thursday	7:00 p.m.
Islamic	
Jumaa Prayer (Friday in Annex 4)	12:00 noon
Roman Catholic	
Sunday Mass, Main Chapel	9:00 a.m.
Daily Mass, Small Chapel	11:35 a.m.
Confession (Sunday), Command Chaplain's Office	8:15-8:45 a.m.
Confession By Appointment	Anytime
Religious Education Classes (Sunday) (September thru May), Annexes 1, 2 & 4	10:30 a.m.
Jewish	
Weekly Services (Friday - East Wing)	7:30 p.m.
Adult Hebrew Lessons (Saturday in Annex 4)	9:00-10:00 a.m.
Sabbath School (Saturday in Annex 4)	1:00-4:00 p.m.

Chaplain S. A. Casimano, LCDR, CHC, USN
Chaplain G. L. Goodman, LT, CHC, USNR
Chaplain G. E. Williams, LT, CHC, USNR
Brian H. Zimmerman, Student Rabbi
Hearing Impaired Equipment, Nursery Available

Northridge posts list of upcoming classes

Following are classes being offered this spring for the Cal-State University, Northridge (CSUN) Engineering Program (master's degree). To enroll in these classes, submit an on-Center Training Request and Authorization Form (NAVWPNCEN 12410/73) via department channels to Code 224. Registration will be held at the first class meeting. *Deadline for enrolling is 10 calendar days before the starting date of the class.*

EE 422N: Design of Digital Computers (3 units)

Feb. 2-May 25; Fridays, 1530-1830; Training Center. By Professor Bob Wong, CSUN, (818) 885-2190.

Prerequisite: Course on switching circuits and Boolean algebra or consent of instructor.

Scope: The structure and operation of a stored-program general-purpose digital computer. Design of computer hardware modules; arithmetic-logic units, control units, input-output units, memories. Basic organizations of digital computers. Fault diagnosis and fault tolerant design of digital systems.

Text: Computer System Architecture. Morris Mano. Prentice-Hall, second edition.

EE 542N: RF Electronics Design (3 units)

Jan. 30-May 22; Tuesdays and Thursdays, 1610-1740;

Training Center. By Dr. Wade Swinford, NWC ext. 2878.

Prerequisite: Knowledge of circuit theory or consent of instructor.

Scope: The design of RF amplifiers and tuners is emphasized, covered are AM/FM IF amplifiers, AM/FM tuners, AM/FM detectors. Radar applications are considered: TV circuits including UHF/VHF tuners, video amplifiers, sync vertical and horizontal circuits. Automatic control circuits are also covered. Phase lock loop techniques are introduced with emphasis on RF applications including frequency synthesis techniques using digital techniques.

Text: Solid State Radio Engineering. Krauss, Bostian, and Raab. John Wiley and Sons, 1980.

EE 574N: Antenna Engineering (3 units)

Jan. 29-May 21; Mondays and Wednesdays, 1610-1740; Training Center. By John Johnson, 446-5561.

Prerequisite: A course on electromagnetic fields and waves or consent of instructor.

Scope: A first course in the theoretical analysis and design of antennas. Review of fundamental concepts, beginning with Maxwell's Equations, discussion of significant antenna parameters, elementary antennas, apertures,

arrays, traveling-wave antennas, and antennas based upon geometrical optics.

Text: Antenna Theory and Design.

ME 592: Computational Fluid Dynamics (3 units)

Jan. 31-May 23; Wednesdays, 1610-1910; Training Center. By Dr. Darrell Pepper.

Prerequisite: ME 490: Fluid Dynamics or equivalent and a course in numerical analysis or consent of instructor.

Scope: Introduction to the numerical analysis of fluid flows. Special techniques required for solution of the governing equations for viscous, inviscid and boundary layer flows. Applications to convective heat and mass transfer. Turbulence modeling and other submodels for complex engineering applications.

Text: Computational Fluid Mechanics and Heat Transfer. Anderson, Tannahill, and Pletcher. McGraw-Hill, 1984.

IE 412: Process Design and Manufacturing Engineering (3 units)

Jan. 30-May 22; Tuesdays and Thursdays, 1610-1740; Training Center. By Dr. George Hayes, NWC ext. 1038.

Scope: A study of metals, plastics and electronics manufacturing, including material removal, material forming, casting and molding, welding pro-

cesses, crystal growing, photo-etching, finishing and coating, numerically-controlled machining, assembly methods, inspection, tool engineering, tolerances, allowances and surface roughness, etc. Capabilities, limitations and economics of the different methods. A project in process design will be required.

Text: Materials and Processes In Manufacturing. DeGarmo, Black and Kohser. Macmillan Publishing Co., seventh edition, 1988.

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

AM 421: Aerostructures II (3 units)

Jan. 29-May 21; Mondays, 1610-1910; Training Center. By Dave Singh, NWC ext. 1066.

Prerequisite: AM 421: Aerostructures is recommended, but not required.

Scope: Analysis of semimonocoque aircraft structures. Stress, deflection and stability are considered for linear and nonlinear material behavior. Finite element methods are applied to continuous systems. Discussion of structural vibration loads and flutter.

Text: Introduction To Aerospace Structural Analysis. Allen and Haisler. John Wiley and Sons, 1985.

Math 477: Experimental Design and Statistical Analysis (5

quarter units)

Jan. 8-Mar. 16; Monday through Friday, 1130-1230, four hours lecture per week and one hour computer lab per week; Training Center. By Ron Merritt, NWC ext. 4652.

Prerequisite: Elementary probability and statistics is required; or consent of instructor.

Scope: Statistical inference using fixed, random mixed and split-plot models. Other topics include multiple and polynomial regression, analysis of covariance and use of computers in statistical analysis.

Note: CSUN systems engineering students who have not had IE 501: Engineering Statistics or equivalent and who have not had an upper division course in probability or statistics are encouraged to take this course.

General Comments

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, Bakersfield or 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, NWC ext. 2648.

Self-study courses at Training Center

Fast Track (50 minutes)

Scope: The Learning Center has a subscription to Fast Track, an audio-cassette club under which we receive a different audio cassette each month with two synopses of current management books, which total approximately 50 minutes of listening time.

Enrollment Form: None. Simply call NWC ext. 2451 to reserve this cassette.

VMS System Architecture (24 hours)

Prerequisite: Digital's VMS Utilities and Commands or

equivalent knowledge and experience.

Intended Audience: System managers, system programmers, application programmers, system support personnel and other technical VMS users.

Scope: You should learn to understand the purpose of the hardware components that make up VAX systems, the implementations of VAX hardware, the components that characterize VAX architecture and the VMS operating system; understand the purpose of process management on a VMS system; describe the

purpose of the communication and synchronization services; know the components and function of the I/O system; understand how RMS works; describe the functions and workings of memory management; describe the purpose of the most significant option (layered) software products; and function within the I/O system.

Enrollment Form: Enrollment Form 12410/73 is required.

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Classes start as early as January 8

Cal-State Chico releases spring schedule

Following are classes being offered this spring for the Cal-State University, Chico (CSUC) Computer Science Program (bachelor's or master's degrees). To enroll in these classes, submit an on-Center Training Request and Authorization Form (NAVW-PNCEN 12410/73) via department channels to Code 224. Registration will be held at the first class meeting. *Deadline for enrolling is 10 calendar days before the starting date of the class.*

CSCI 256: Theory of Computing (3 units)
Jan. 30-May 18; Tuesday and Thursday, 1400-1515; Training Center (via satellite). By Professor Kent Woolridge, CSUC.

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

Scope: This course first covers formal descriptions of computers, languages and programs, then investigates correctness, behavior and complexity. Topics include formal grammars and the associated automata, unsolvable problems, recursive functions and post systems.

Note: This is a core course for the bachelor's degree in computer science through CSUC.

Text: TBA.
CSCI 397C-6: Software Design for Distributed Systems (3 units)

Jan. 30-May 18; Tuesday and Thursday, 0930-1045; Training Center (via satellite). By Professor Tom Voyda, CSUC.

Prerequisite: CSCI 152: Operating Systems Programming and CSCI 172: System Architecture or equivalent or consent of instructor.

Scope: Briefly covers the fundamentals of software design and overviews selected software design methodologies. Focuses on the design and implementation of distributed software for loosely coupled multi-processor systems or computer networks. A number of fundamental problems such as distributed mutual exclusion, synchronization, resource allocation, termination detection, consistency, fault tolerance and others are discussed, then recent algorithms for their solution are presented.

Text: TBA.
CSCI 397C-1: Seminar In Object-Oriented Programming (3 units)

Jan. 30-May 18; Tuesday and Thursday, 1230-1345; Training Center (via satellite). By Professor Paul Luker, CSUC.

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

Scope: The advantages of object-oriented programming: modularity; abstraction encapsulation; extensibility and re-usability. Languages for object-oriented programming; including SIMULA, SMALLTALK, BETA and C++.

Note: This course satisfies the software engineering/systems analysis area for the master's degree through CSUC.

Text: TBA.
CSCI 152: Operating Systems Programming (3 units)
Feb. 3-4, Mar. 17-18, May 5-6; Saturdays and Sundays, 0800-1600; Training Center. By CSUC staff.

Prerequisite: CSCI 151: Algorithms and Data Structures or CSCI 171: Computer Architecture or equivalent or consent of instructor.

Scope: Operating system overview; process concepts; file management; memory management; I/O operations; scheduling and concurrency.

Note: This is a core course for the bachelor's degree in computer science through CSUC.

Text: TBA.
Math 477: Experimental Design and Statistical Analysis (5 quarter units)

Jan. 8-Mar. 16; Monday through Friday, 1130-1230, four hours lecture per week and one hour computer lab per week; Training Center. By Ron Merritt, NWC ext. 4652.

Prerequisite: Elementary probability and statistics is required; or consent of instructor.

Scope: Statistical inference using fixed, random mixed and split-plot models. Other topics

include multiple and polynomial regression, analysis of covariance and use of computers in statistical analysis.

Note: CSUN systems engineering students who have not had IE 501: Engineering Statistics or equivalent and who have not had an upper division course in probability or statistics are encouraged to take this course.

Enrollment deadline is 10 calendar days before start of class

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Chicken Sandwich with fries	Friday - 11/10 Beer Battered Fish & Chips with Slaw
Beef Dip with Potato Salad	Monday - 11/13 Clam Chowder
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Potato Salad	
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PW resolves housing's heating troubles

While the majority of Naval Weapons Center residents have had their furnaces on since Oct. 15, approximately 30 homes throughout the base have been without heat, except for that provided by small portable heaters on loan from the Housing Office. According to Jon Osgood, Services Division head, this problem should be resolved shortly.

Osgood said Public Works was notified by the contractor who inspects the furnaces that many heat exchangers had cracks in them. "Cracks are not dangerous and would not normally prevent furnaces from being turned on," noted Osgood. "Upon further inspection, however, we discovered the problem was more seri-

ous. Many of the defective units had holes in them, not cracks. A hole in a heat exchanger would allow combustionable gases to be drawn from outside the unit to inside the homes, posing a serious health risk to housing residents."

Replacement of the defective units was soon underway but was halted when concerns over asbestos hazards were expressed. "To ensure the safety of the contractors, PW workers and housing residents, an abatement contractor was brought in to verify if there was or was not an asbestos problem," said Osgood. "This verification has taken time and has substantially delayed the replacement of units. The good news is that the abatement contractor is finished

with his work and didn't find an asbestos problem and new furnaces are now being installed."

The majority of the needed replacement units are already onboard, noted Osgood. "The larger units are still on order, but we have been informed by our supplier that they should be here by the end of this week."

The division head noted that an inspection is done on the furnaces at the end of the heating season and a more detailed inspection is performed before turning them back on. "I don't know why these defective units weren't caught earlier," he said.

"We are going through and revising some of our policies to help ensure this type of problem

never occurs again. In addition, each furnace will undergo a thorough inspection and the marginally acceptable ones will be replaced over the next two years," commented Osgood.

Residents who are having problems with their heaters are urged not to attempt repairs themselves.

"If you have a heating problem, call the Housing Trouble Desk at NWC ext. 2380," Osgood said. "If you have one of the furnaces scheduled to be replaced and have questions regarding this matter, please call Randy Kirkendoll, in Public Work's Customer Relations office at NWC ext. 3411, ext. 476."



Sidewinder legend honored

(Continued from Page 2)
the Sidewinder community," shared McCalester. "Everywhere I go representing Sidewinder, people mention 'Winder', the call sign given to him by flyers."

He cultivates a close working relationship with the pilots of NWC and Air Test and Evaluation Squadron Five (VX-5), who look to him as an expert in Sidewinder history. One of his

collateral duties is maintaining the missile's archives.

The plaque which states "For your many contributions in making Sidewinder the fighter pilot's 'weapon of choice,'" is one which his wife says he's always coveted.

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Well folks, since there was not enough room in last week's column to cover all the services offered through the PC Lab, I will highlight some of the less well-known services today.

Data Scanning--Both text and graphics can be scanned, or transferred, to a disk so that you may edit and save the data on your computer. This allows you to use a word processor to edit a text document and save it on disk for future use. The same principle applies to graphics, allowing you to modify presentation graphics, logos, etc., on the computer and keep the graphic handy for future modifications. You must bring a good copy of your document to the PC Lab for scanning; no smudges, tears or mutilations, please.

System Configuration--A consultant will meet with you to assist in defining your computing requirements. In this manner, the most appropriate system to meet your immediate needs as well as projected future requirements can be determined. You will be better able to select the most efficient and cost effective system at a time when budget cutters are looking cautiously at large purchases.

Presentations--A consultant will make a presentation to your group to discuss topics including hardware and software applications, viruses, networking, etc.

Presentation Projector--Next time you are giving a presentation and don't want to hassle with shuffling through the transparencies you carefully created on the computer, the PC Lab will set up an overhead projector that will display an image of the monitor directly to the silver screen. The projector is compatible with Macintosh and IBM PC systems. Reserve the projector in advance so that you will not be left in the dark.

Periodical Library--A variety of publications including *MacUser*, *PCWORLD*, *MacWEEK* and *COMPUTERWEEK* are in the library for use at your convenience.

Training--Consultants will provide small group and individual training either in your office or at the PC Lab. Also available for a limited number of applications are training and new product video tapes, as well as a small tape player/monitor to view the tapes.

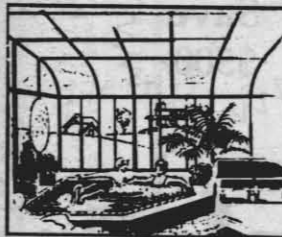
For any of the above services and more, contact the PC Lab at NWC ext. 6631.

By Bob Beane

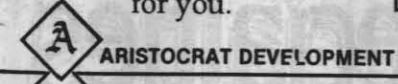
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**Veterans Day Message
From the
Secretary of Defense**

On Veterans Day Americans remember and honor those who fought in war to secure peace.

At the eleventh hour of the eleventh day of the eleventh month of 1918, the "war to end all wars" came to a close. We Americans felt so strongly about the milestone that we created a national day of remembrance--Armistice Day. Three years later we buried an unknown American soldier from that war in Arlington National Cemetery. "Known only to God," he became the eternal symbol of Americans' willingness to fight and die for democracy, freedom, and their beloved country.

Unfortunately, war did not die in 1918. Unknown soldiers from World War II, Korea, and Vietnam have joined their comrade at Arlington Cemetery. Armistice Day has become Veterans Day on which we honor the courage of Americans who fought in all wars. Though our hopes are tempered by the need for vigilance which today's Armed Forces so ably provide, the dream of that first Armistice Day remains. There can be no greater tribute to our fallen sons and daughters.

I join the men and women of the Department of Defense in saluting our living veterans and those who made the supreme sacrifice for peace and freedom.

Dick Cheney
Dick Cheney
Secretary of Defense

EEAP rules changed

Washington (NNS)--The Enlisted Educational Advancement Program (EEAP) has changed to allow sailors to receive more than an associate's degree in a 24 month period.

All EEAP members now have the opportunity to complete as many credits as they can in the two-year timeframe, including attaining a bachelor's degree.



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Annual leave hours needed

Employees indicated below have been approved to become leave recipients under the Leave Transfer Program. These employees have exhausted annual and/or sick leave because of personal emergencies and will be in a non-pay status for at least ten days. Employees who wish to donate annual leave to the employee should fill out the form at the end of this column, clip it out and send it to Code 221. For more information about this program, call NWC ext. 2018.

Beverly Parsons, Purchasing Agent, Code 257 -- received severe neck injuries in a car accident and will be unable to return to work until late November. She is indebted for leave.

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

Polly Bainbridge, Secretary, Code 3922 -- is currently undergoing medical treatment and is indebted for leave. Her doctor estimates she will not be able to return to work until Jan. 2.

Kimberly Sorensen, Secretary, Code 2842--developed kidney failure and has been undergoing Hemodialysis three times a week at Loma Linda. She is also receiving Peritoneal Dialysis.

Mary Eddins, Configuration Manager, Code 2732--received neck and back injuries in an automobile accident. She is now back to work part-time, but is indebted for leave.

William Eastman, Clerk Typist, Code 2851 -- has undergone back surgery to remove disk material from his spine.

John Hill, Engineering Data

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Management Specialist, Code 3654 -- suffered from chronic anemia and gastrointestinal complications which caused him to be on extended leave. He is indebted for over 130 hours of leave.

Debra Campbell, Administrative Assistant, Code 2803 -- is recovering from complications due to pregnancy and childbirth.

Mike Mason, Mechanical Engineering Technician, Code 3526 -- is continuing to receive chemotherapy treatments at UCLA for his long-term illness. He is able to work intermittently between treatments.

Michael Phillips, Student Trainee (Computer Scientist), Code 2803 -- has had repeated surgeries for recurring tumors of the knee, which have led to two replacements of the knee joint.

Melody R. Reymond, Budget Analyst, Code 2836 -- who underwent emergency surgery and was unable to work from mid-February until late April is indebted for leave.

Robert R. Huntley, Program Manager, Code 35A1 -- has returned to work after spinal fusion and neural surgery. He remains indebted for leave.

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CSUC, CSUN personnel clarify degree programs

Dr. Orlando Madrigal, CSUC

Dr. Orlando Madrigal of Cal-State University Chico will be on-center Nov. 20 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 Benes, NWC ext. 2648.

Professor Tom Mincer, CSUN

Professor Tom Mincer of Cal-State University, Northridge (CSUN) will be on Center Nov. 17 to advise current and prospective students in the external degree program offered by the school in mechanical engineering.

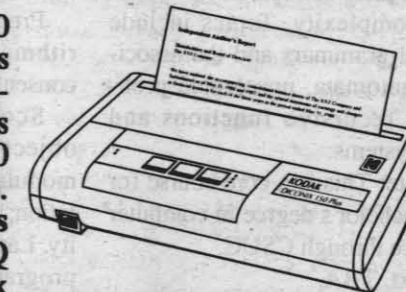
Those who wish to see Professor Mincer are asked to make an appointment by calling Helen at NWC ext. 2648.



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Personnel News & Notes

Promotional opportunities

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

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

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

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

No. 26-041, Maintenance Mechanic (Finisher), WG-4749-7/9, Code 26417 - Finishes concrete and similar material to construct floors, walls, streets, sidewalks, columns, plasters, and other related concrete and masonry type work. Operates various pneumatic tools to break up or drill hard surfaces, such as concrete, asphalt, and masonry. Lays brick, stone, cement block and cinder block to construct or repair walls, partitions, fireplaces, chimneys, incinerators, etc. Applies plaster, cement, stucco and similar material to walls, ceilings, floorings and other surfaces. **Job Relevant Criteria:** Ability to do the work of the position without more than normal supervision; knowledge of technical practices; ability to interpret instructions, specifications, and blueprints; knowledge of measurement and layout; knowledge of tools and equipment; knowledge of materials.

No. 31-088, Interdisciplinary (Electronics Engineer/Computer Scientist/Mathematician/Physicist), DP-855/1550/1520/1310-2/3, Code 31332 (Multiple Vacancies) - These positions are within the Electronic Warfare Simulations Section, EW Analysis Branch, EW Avionics Division, Aircraft Weapons Integration Department. The EW Simulation Section has been tasked with the development of a total Battle Field Simulation, and Scientific/Engineering Graphics effort to support naval electronic warfare systems analysis and effectiveness. This effort will be on several levels of development, and will encompass the FR, IR, EO, laser spectrum, as well as the newest Naval aircraft. This is a state-of-the-art simulation and graphics program on the leading edge of software, simulations, and graphics environment. **Job Relevant Criteria:** Knowledge of software engineering and structured development procedures; ability to communicate with and coordinate

with a diverse range of contractor and government personnel in a dynamic environment. Promotion potential to DP-3/4, but not guaranteed.

No. 31-089, Interdisciplinary (Electronics Engineer/Computer Scientist/Mathematician/Physicist), DP-855/1550/1520/1310-2/3, Code 31331 (Multiple Vacancies) - These positions are located in the Electronic Warfare Effectiveness Section, EW Analysis Branch, EW Avionics Division, Aircraft Weapons Integration Department. The incumbents are responsible for engineering and technical support to OPNAV, NAVAIR, and NWC in the areas of System, Mission, and Techniques Analysis, as well as System Effectiveness and Simulation Development. The work to be performed is in the areas of Radio Frequency (RF), Infra-Red (IR), and Electro-Optical (EO) Countermeasures Effectiveness for current and developing systems, as well as the newest Naval aircraft. A background in general analytic procedures is desirable. **Job Relevant Criteria:** Ability to analyze and evaluate RF, IR, and EO Countermeasures Effectiveness for current and developing systems; ability to communicate in writing; ability to communicate orally. Promotion potential to DP-3/4 but not guaranteed.

No. 35-071, Electronics Technician, DT-856-2/3, Code 3522 - This position is located in the Advanced Technology Branch, Weapons Systems Development Division, Attack Weapons Department. The incumbent will fabricate, test, troubleshoot and repair various analog and digital circuits. The incumbent will evaluate and test subassemblies and complete units under various environmental conditions. The incumbent will be involved in the planning, coordination and conduct of tests in the laboratory, RF anechoic chamber and at field sites. The incumbent will be responsible for producing and maintaining all documentation associated with the assigned fabrication and testing tasks. **Job Relevant Criteria:** Ability in layout and fabrication of analog and digital electronic circuitry; ability to use general electronic test equipment; knowledge of troubleshooting techniques; ability to communicate orally. Promotion potential DT-3.

No. 36-069, Supervisory Quality Assurance Specialist, DS/DP-1910-3, Code 36821 - Area of consideration: Career/Career Conditional and permanent excepted appointment employees of the Engineering Department only. This position is located in the Quality Assurance Section of the Quality Assurance Branch, Product Assurance Division, Engineering Department. The incumbent serves as the section head. The section head will direct and actively participate in the tasks of the personnel being supervised. This will include the implementation of quality assurance and quality control practices, principles, methods, techniques and disciplines during the planning, design, fabrication, testing and production of weapon systems, related equipment and components. **Job Relevant Criteria:** Knowledge of quality assurance techniques; knowledge of the acquisition processes; knowledge of inspection techniques; knowledge of safety practices; knowledge of and a willingness to support NWC EEO program goals and objectives; ability to communicate orally; ability to communicate in writing. Incumbent may be required to serve a one-year supervisory probationary period. Promotion potential to DP-3.

No. 62-072, Administrative Officer, DA-341-2/3, Code 62502 - This position is located in the Data Systems Division of the Range Department. The incumbent is responsible for budget administration and financial management, contract management, and personnel and organizational management. The incumbent will provide assistance with a full range of administrative support functions including the annual C&IS plan and procurement, contract package preparation, and MTP and staffing plans. Major functions of the Data Systems Division include the Range Control Center technical operations, range

data reduction, telemetry, timing and communications. These facilities support different aspects of Range testing and are crucial to controlling tests and providing data to Range Communications. **Job Relevant Criteria:** Knowledge of NAVWPNCEN financial accounting systems, terminology and procedures; knowledge of personnel policies and procedures; ability to carry out studies and analysis; ability to communicate orally; ability to communicate in writing; knowledge of spreadsheets and word processing software. Promotion potential to DA-3, but not guaranteed.

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 applications will be rated on elements 4/7/8/9. A SUPPLEMENTAL FORM IS REQUIRED AND MAY BE OBTAINED IN ROOM 100 OF THE PERSONNEL BUILDING.

No. 31-087, Secretary (Typing), DG-318-1/2, Code 3191 - The incumbent will provide secretarial and administrative support to the Systems Engineering Branch. Knowledge and working skill on the Macintosh PC is desirable. The incumbent must presently have a Secret clearance and be able to obtain and maintain a Top Secret clearance. Must be well versed in all aspects of travel. Promotion potential to DG-2, but not guaranteed. Previous applicants need not reapply for this position. Status eligibles may apply.

No. 39-095, Secretary (Typing), DG-318-2/3, Code 39B6 - This position is located in the NAAWS Systems Project Office, Intercept Weapons Department. The incumbent will provide secretarial support to the NATO AAW Project Office. Duties will include typing, processing travel orders, including foreign travel, making arrangements for meetings and keeping a data file for incoming correspondence. Knowledge and experience with the Macintosh computer is desirable. Promotion potential to DG-3, but not guaranteed.

No. 62-073, Secretary (Typing), DG-318-2/3, Code 625 - The incumbent provides secretarial support to the Data Systems Division of the Range Department. Knowledge of and working experience on the Macintosh computer system is highly desirable. Promotion potential to DG-3, but not guaranteed.

Non-appropriated funds

The following vacancies are not Civil Service positions. These positions are paid for from non-appropriated funds and are administered in accordance with policies established by the Department of Defense. Persons selected for these positions have no Civil Service status and are not eligible for appointment to positions in the Civil Service. Persons interested in applying for these positions should fill out a standard application form (SF-171). Applicants need not be presently employed in a Non-Appropriated Fund Instrumentality (NAFI) position, nor must they be employed at the Naval Weapons Center. The SF-171 should clearly be marked "NAFI" on the top and should have the appropriate announcement number listed in Block 1 on the form. Completed applications can be delivered to Room 100 or to Room 120 in the Personnel Building or can be mailed to: Naval Weapons Center, Personnel Dept. (Code 226), ATTN: NAFI Service Team, China Lake, CA 93555-6001.

No. 22-8931, Supervisory Recreation Specialist UA-188-5/6/7, \$15,738 to \$25,343, PA, Code 22951 - Permanent Full Time. This position is located in the Youth Activities Section, Moral, Welfare and Recreation Division. Incumbent is the Director of Youth Activities and is responsible for developing, budgeting, organizing, implementing and evaluating base-wide youth and family recreation programs. **Job Relevant Criteria:** Demonstrated knowledge of the goals, principles, methods and techniques of recreation and child care programs and procedures. Knowledge of EEO Principles, Practices and techniques. Ability to plan and manage a budget. Ability to work with and manage diverse groups. A four-year degree in Recreation or related subjects is highly desirable.



MERITORIOUS AWARD--Barbara Gonder proudly displays the Navy Meritorious Civilian Service Award she was presented by Capt. Douglas W. Cook, NWC Commander. Photo by PHAN Cary Brady

Host a sailor Turkey Day

China Lakers interested in hosting a sailor or marine for Thanksgiving Day can sign up by calling the Naval Weapons Center's Seafarer Club at 446-6929.

There are many military members at China Lake who will be unable to be with their family for this Thanksgiving Day and the

Morale, Welfare and Recreation Division is providing the Seafarer Club as a point of contact for military members and area residents to get together for the holiday.

Military personnel who would like to spend the day with a local family are also asked to call the Seafarer Club at 446-6929.

Navy assisting Smokeout work again this year

Washington(NNS) --In keeping with the Department of Defense's directive on promoting health, the Navy is once again promoting the American Cancer Society's 13th Annual "Great American Smokeout" on Nov. 16.

Navy Smokeout Day is a lighthearted, upbeat event which will be held at military installations around the world focusing on cigarette, cigar, pipe and smokeless tobacco users. You can participate by quitting or cutting back for 24 hours; or if you don't smoke, sponsor someone for the day who does. Encouraging someone to successfully quit smoking for 24 hours or longer may lead to a decision to give up the habit. So quit smoking.

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Gonder saluted for work

(Continued from Page 1) problem and come up with a solution. It is rare to find an individual with her particular combination of resourcefulness, professionalism and intelligence. Her support to Code 39 will be sorely missed."

The award citation, signed by Capt. Cook, said her efforts were instrumental in developing comput-

erized means for processing and analyzing the many millions of data test points collected in the process of NWC testing. Quoting from the citation, Capt. Cook related "You leave us with a wealth of software applications embedded into the very fabric of our daily operations and which serve as models for new applications still in the concept stage."

Braithwaite's effort rewarded

(Continued from Page 1) award, his latest effort was development of the ordnance package from the Tomahawk Land Attack Missile Block III. Capt. Cook said, "Your mature and thorough-

professional administrative and technical skills resulted in a highly favorable reflection of the Naval Weapons Center to its major sponsors and fleet users."

A China Laker since arriving from the University of Idaho in 1960 for his junior professional year, Braithwaite has a degree in mechanical engineering.

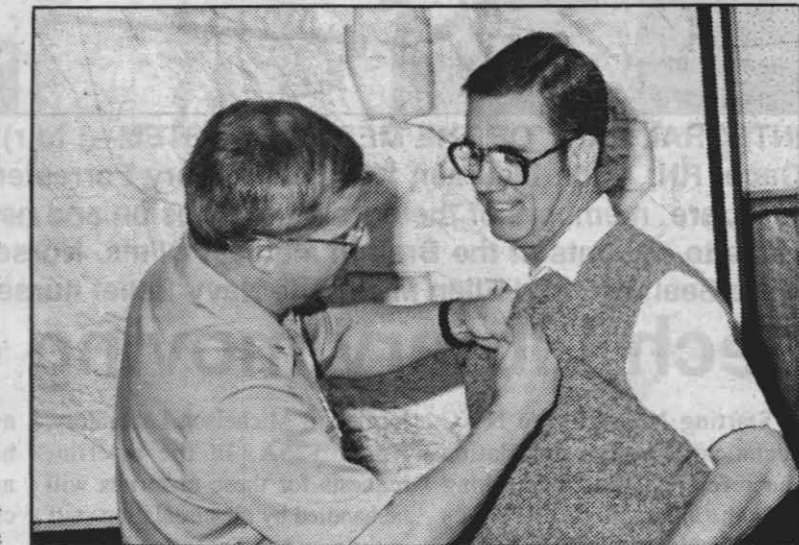
NMCS HONOR--Moyle Braithwaite receives the Navy Meritorious Civilian Service Award from Capt. Douglas W. Cook, NWC Commander, during ceremonies on Monday morning.

Photo by PHAN Cary Brady

Surplus auction November 30

Local Auction 41-0095 of surplus government property will be held by the Defense Reutilization and Marketing Office at China Lake on Thursday, Nov. 30. The auction will begin at 9:30 a.m. in Building 1073, Warehouse 41, and the public is encouraged to bid.

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INTEGRAL PART OF THE MEDICAL SYSTEM--(l to r) Joan Gaska, RN; Joan Gage, RN; LCdr. Maureen Kusnierek; Mary Forrester; and Susan Hammon, ANP; are members of the nursing profession and help provide medical services to patients at the Branch Medical Clinic. Nurses not shown are Jeannette Seal, RN; and Ellen Miller, the Navy Relief nurse.

Tech Library moving day near

Starting Nov. 20, the NWC Technical Library's circulation and reference functions, along with the open literature books and periodicals, are moving to a new building located near the north entrance of Michelson Laboratory.

The technical reports collection will remain in the old Technical Library location until expanded strong room space and movable shelving are provided in the Research Service Center,

located in Michelson Laboratory, Room 125A. In the interim, requests for these materials will be handled by the circulation staff in the new building.

During next week (Nov. 13-17), the Technical Library will be open from 12:30 to 4:30 p.m. Morning hours will be devoted to packing. The actual move and organization of the new building will take place from Nov. 20 through Dec. 31. During this time, limited services will be

available. These services include high-priority literature searches and circulation of high-interest current periodicals.

"If a real emergency should spring up," said Bill Blanc, head, Library Division, "we will be available. The library staff will do whatever they can to minimize the impact on our patrons."

Users concerned about interruption of service can call Craig Pelz, NWC ext. 2566 or Mary-Deirdre Coraggio, ext. 2639.

Nurses play influential role in Navy health care system

Nurses play an integral part in the medical community. Not only have they dedicated years of study to become professionals, but they devote hours in helping the sick and injured. The Branch Medical Clinic at the Naval Weapons Center has six of these committed professionals serving the needs of the military and their dependents.

As the only military member of the clinic's nursing staff, LCdr. Maureen Kusnierek, senior nurse, ensures nursing duties are performed efficiently and correctly. Working with her are Joan Gaska, Registered Nurse (RN); Joan Gage, RN; Jeannette Seale, RN; Mary Forrester, nurse assistant; and Susan Hammon, Adult Nurse Practitioner (ANP).

In addition, LCdr. Kusnierek collaborates with the Navy Relief nurse, Ellen Miller. As part of her Navy Relief duties, Miller visits homes of newborns, answering new parents' questions and showing them the proper way to care for, feed and handle the baby.

"Nursing isn't like it was 20 years ago," said LCdr. Kusnierek, who has nearly 13 years as a Navy nurse. "There are more levels in today's nursing field and more opportunities for advancement. Today's nurses can expand their capabilities and become whatever they want to be. Many nurses are now going into specialized fields. For example, if a

prospective nurse enjoys babies, that person might decide to specialize in natal care; while someone who enjoys working with the elderly might decide to specialize in geriatrics," she added.

The nursing supervisor notes having military and civilian nurses working as a team in military facilities is very common, especially with the shortage of nurses.

LCdr. Kusnierek said the nursing turnover at China Lake is very low. "Most of our nurses hire on and stay, bringing stability to the clinic. They know what is happening with the military members, as well as in the community."

The supervisor and her co-workers are proud of their profession. "Nursing is an extremely rewarding career," LCdr. Kusnierek said. "It involves lots of work, study, knowledge and sometimes even heartbreak, but the good times more than compensate for the bad. We are lucky that the China Lake population is basically young and healthy. We mainly practice preventive medicine, diet counseling and handle minor, acute problems."

LCdr. Richard Titi, officer-in-charge of the clinic said, "Whether you are talking about military, outpatient or civilian occupational health care, nurses have been one of the keystones of Navy medicine and will continue to be so."

Playing their best is more important than beating the opposition...

(Continued from Page 12)

Goalbusters 4, Stings 2

The Goalbusters did not turn a score sheet. Great team effort and moves by Dan

Behr, Robby Moran and Wolfie Hammerbacker weren't quite enough to stop the Goalbusters. Chris Maci and Mitchell Tims each scored in the loss.

Division IV Renegades 5, Aztecs 3

Both teams' defenses were hard to get past. Roddy Delos Reyes, Scott Foremas-

ter and Greg Greedy managed to slip past Caleb Moore for the win. Mike Terry and Elliott Borden fooled Greg Solem twice to score for the Aztecs.

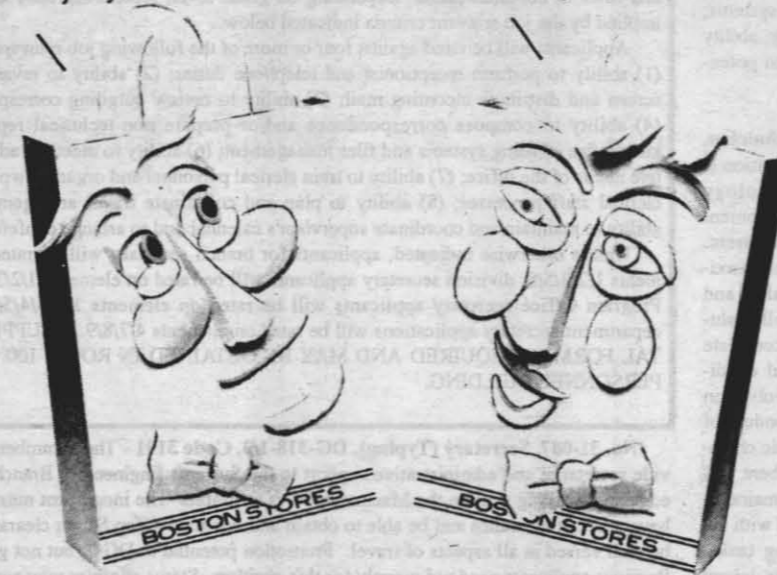
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MEN'S CLOTHING

Haggar Expandomatic dress slacks. Reg. \$32. Sale 25% off.*
Haggar wool blend belted slacks. Orig. \$42. Sale \$32.97.
Haggar wool blend sport coats. Orig. \$99.99. Sale \$79.97.
Cotton blend twill slacks from W. Koury Co. Orig. \$30. Sale \$16.97.
Levi's for Men brushed denim stretch jeans. Reg. \$34. Sale 33% off.*

MEN'S FURNISHINGS

Van Heusen tone-on-tone dress shirts. Long sleeve reg. \$25. Sale 33% off.*
Short sleeve reg. \$21. Sale 33% off.*
Wembley silk ties in neats and paisleys. Reg. \$18.50. Sale 40% off.*

Entire stock of Prince Gardner wallets for Men. Reg. \$20. Sale 50% off.*

Givenchy fashion socks. Orig. \$7. Sale \$3.97.

Men's flannel robes. Orig. \$30. Sale \$14.97.

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Available to all China Lake personnel. Prices are per person, double occupancy and do not include airfare. Cruises leave from Los Angeles. Subject to rate changes and availability. Specific dates apply. Ship's Registry: Azure Seas, Panama; Southward, Bahamas; Fair Princess. Liberia.

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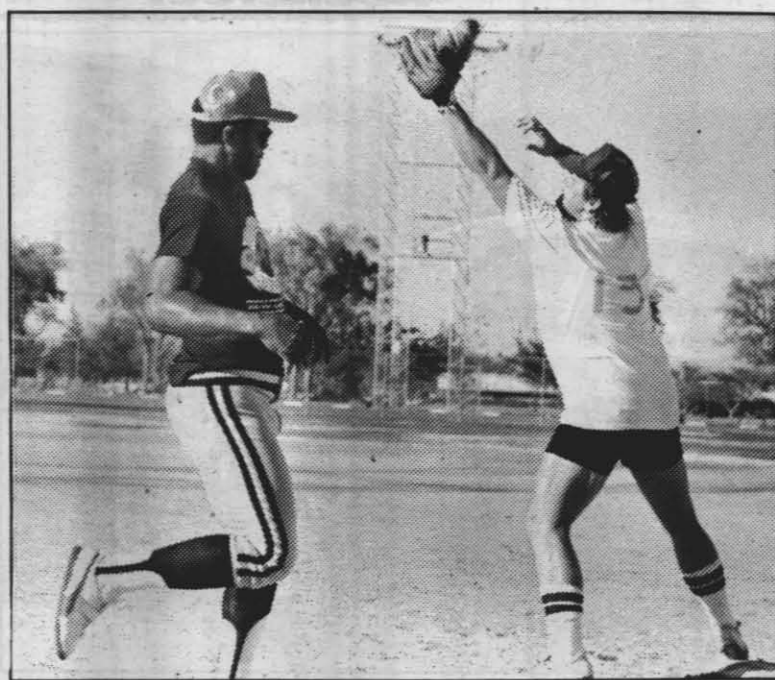
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China Lakers play ball and earn \$\$\$ for local charities

Despite a heavy loss for the celebrity team, the China Lake Police Officers' Association's softball game held last Saturday was a resounding success. Six ex-raider football players came to Ridgecrest to help the association raise money for the DARE (Drug Awareness Resistance Education) Program and to donate to the local Women's Shelter for their local Christmas toy drive.

The final score was China Lake 22, Ex-Raiders 0. There were two other winners, however, in this fund-raising event. According to Brian Cornett, a member of the China Lake Police Division, the association raised approximately \$1,000 for each of the two charities. "We had great community support," he said. "I only wish the point spread hadn't been quite so wide."

The celebrity team consisted of Lester Hayes, Rod Martin, Jeff Barnes, Otis McKinney, Henry Lawrence and Mike Davis. "These men participate in about 80 charitable games a year," said

Cornett. "While they lose sometimes, the majority of time they trounce the hosting team. Saturday was just a bad day for them."

\$2,000 donated to charities

China Lakers donating their time to help organize this event were James Brown, who helped manage the home team, Cornett, Scott Haygood, Allan King and Al Spaeth. The people who got down and dirty included NWC's Commander, Capt. Douglas W. Cook, Roy Parris, James Adams,

Stanley Austin, David Burkey, Steve Erslund, Sue Hunsaker, Richard Kohr, Ronnie Lewis, Mark Marr, Danny Mitchell, Kathy Ochs, Amy Soyke, Kerry Swiggum, Steve Cornett, Andy Pudgorski and Don Wright.

"We did make one mistake," said Cornett. "We ordered too many hot dogs. Anyone who would like to buy some hotdogs at wholesale prices can call me at NWC ext. 2947. Next time we'll know to cut down what we order."

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YOU'RE OUT--The celebrity team heard those words often during the China Lake Police Officers' Association's fund-raising softball game. Final score -- CLPOA 22, Ex-Raiders, 0. Winning isn't everything

(Continued from Page 10)

Glenn Conrad's lone goal put along with goals by Chris Peters and Jeff Robbins, resulted in victory. Plays by Karla Villegas, Chris Long and Chandelle Harris, and a goal by Pete Greedy, helped build excitement.

Jets 3, Strikers 0
In a great game, the Jets shot to the top with goals by Ben Nazeck, Robbie Hoffman (assisted by Lawrence French) and Jason Hiett. The Strikers gave their best, especially Ryan Laboda and Misha Akers, but the Jets dominated the game.

Bullets 3, Electrons 1
Scott Dame, Steve Schultz and Jason Schweitzer successfully handled the ball in the win. Blake Hardin, Joey Blanton and Jose Tovar kicked in the winning goals. The Electrons did not turn in a score sheet.

Diplomats 2, Earthquakes 2
In spite of excellent moves by Mark Ogren, Darren Hodge and Erik Rosenlof, the Diplomats couldn't break the tie. Sam Miles booted in both Diplomats' goals. The Earthquakes did not turn in a score sheet.

Division III Soccers 6, Furies 2
A header goal by Jamie Rugg and successful shots at goal by Johnathan Mickelson, Michael Ross and Matthew Girardot dot the Soccers to a goal of their own. Two goals by Mark Kuz, defensive moves by Mike Murray and Jeromy Ellingson, and offensive attempts at goal by Melanie Westberry and Katie Roberts couldn't stop the Soccers.

Mustangs 1, Lancers 0

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November 15
•Disco at the Seafarer Club -"Sound Waves"
•Lip Sinc Contest at the Seafarer Club

November 16
Seafarer Lunch Special- Mexican Fiesta
Seafarer Dinner Special- Spaghetti

November 17
•Disco at the Seafarer Club- "Sound Waves"
•Seafarer Lunch Special-Fish Day
•Seafarer Dinner Special-Steak & Shrimp

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Saturday	5-9 p.m. - Dinner/Dancing Jazz, Ballroom, Ballads, and Oldies Music A Return to Romance and Fine Dining	9 p.m. - 2 a.m. - 21 & Up Top 40 Dance Music 2-4 a.m. - 18 & Up After Hours Dancing Breakfast Served Hourly Drink Specials \$3 Cover Charge
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Youth league teaches players they are all winners

In every sport, someone must win and someone must lose. The Youth Soccer League attempts to teach its players that winning isn't everything and that part of learning a sport is how to lose gracefully. The sixth week of play for the league saw many winning teams, but even more importantly, many winning players, whether they won or not.

Division I

Express 2, Owls 0

Alexa Thompson and Adam Dubois teamed up to prevent the Owls from scoring. Matt Wilson and Kyle Owen knocked in the winning goals. The Owls had good goal defense by Caleb Crow and Ben Roush and good offensive plays by Greg Waller, Ronnie Delos Reye and Jeff Arnts.

Sounders 2, Eagles 1

Donald Beveridge's first goal of the year and a well-aimed kick

by Lance Sattertwaitte put the Sounders on top. Goalie Brennan Paterson successfully blocked several Sounders' attempts at goal. Plays by Greg Ford and a goal by Matthew Wooley made this an exciting game.

Coyotes 1, Appolos 0

An excellent job by Tony Luciano and Rachel Lutgens, and a goal by Kevin Collins pushed the Coyotes to victory. The Appolos put up a tough fight with defensive moves by Brett L'Hommedieu, Ricky Bergin and Richard Tyberski.

Stallions 2, Cougars 1

In the last quarter, Mike Giroux broke the tie with a hard,

well-aimed shot at goal. With Giroux's goal and one by William Power, along with superb play by Eric Davis, Jon Harris and William Powell, the Stallions raced to victory. The Cougars did not turn in a score sheet.

Cobras 4, Hurricanes 0

Two goals each by David Kennedy and Jared Crutchfield, and moves by Sheldon Plummer, Alan Silva and Shannon Webber, caused the Cobras to be victorious. The Hurricanes did not turn in a score sheet.

Division II

Wolves 1, Roughnecks 1

In a well-matched game, a

goal by Rory L'Hommedieu and efforts by John Ames, David Kirby and James Fujiwara weren't enough to overcome the Roughnecks. However, the Roughnecks couldn't pass the Wolves, despite excellent saves

by goalies Warren Mayer and David Turner and a goal by Thomas Martin.

Whitcaps 2, Rockets 1

Outstanding goal defense by Robbie Mitchell and teamwork, (Continued on Page 12)

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Vampire takes second place in bracket finals

In his first drag-racing series, SSgt. Richard C. Whitcomb finished in the money. Even though it is rare for an individual to make the bracket finals in first-time competition in the Firestone Centerline ET Series, SSgt. Whitcomb not only beat the odds, he took second place. The VX-5 Phase supervisor pitted his skills against 120 other drivers in the Bracket 3 (heavy street cars) category.

He became eligible for the Bakersfield competition by placing third in the Dust Devils Auto Club-sponsored qualifying races held earlier this year in Inyokern.

The racer keeps his '73 Plymouth Duster's mechanical parts as close to stock as possible. "I've noticed engine parts last longer when they are as close to the car's original parts as possible," he said. "Since my wife, Alice, and I are the only sponsors for the car, we need something that works and won't constantly be breaking down or having to be replaced."

In addition, the young racer does all of his own mechanical work. "When most people get off work, they go into the living room and relax by watching television or whatever. I relax by going out and working on my car."

While this wasn't the first time SSgt. Whitcomb has raced, it was his first series. Prior to drag racing, which he has been doing for three years, the staff sergeant participated in "outlaw racing" (not under the direction of a racing organization) in Yuma, Arizona. "I feel I did pretty well for my

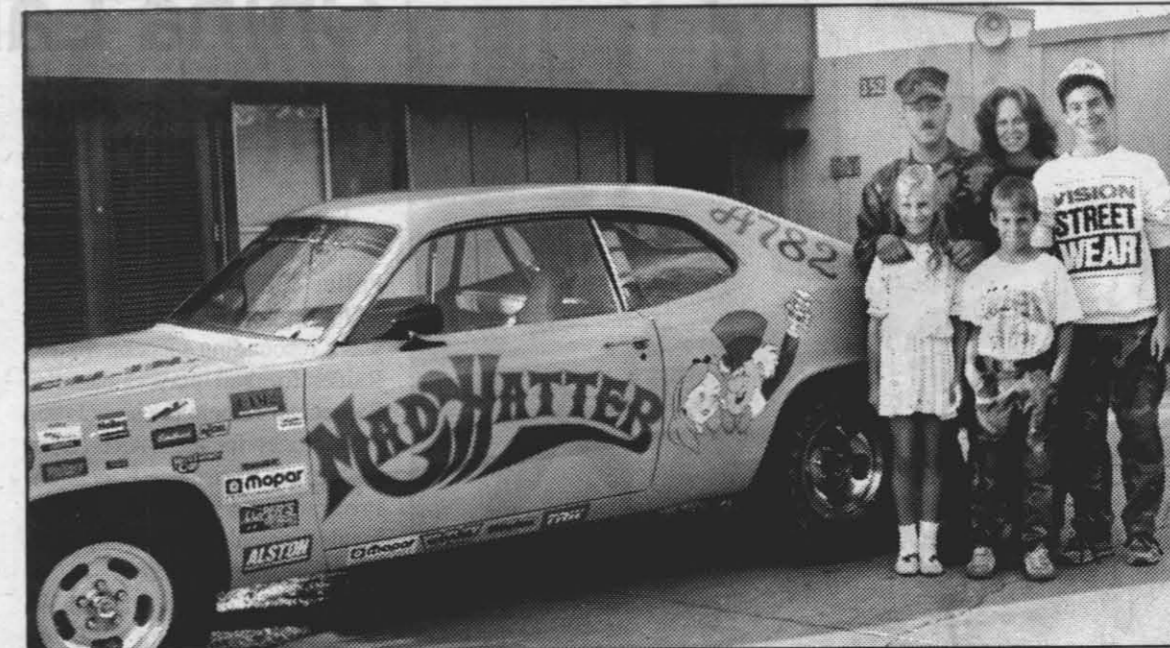
first attempt," he said. "As long as the car keeps performing as consistently as it has been, I should do even better next year."

The speeder figures he only has about \$3,400 invested in his car, including the original cost of the car. "I bought it when it was just a piece of junk. I put in a new transmission, and managed to turn it into a winner," he said.

Racing is a family affair in the Whitcomb household. "When I am working on the car, Alice does the leg work, picking up needed parts or just general running around for me," he said. "My son, Jeff, checks the tires and makes sure they have enough pressure in them and my daughter, Monyka, and other son, John, spray bottles of water on the radiator after a race and keep the car clean."

SSgt. Whitcomb doesn't figure racing is too expensive. "The car is the biggest expense," he said, "but other than that I figure I spend less attending a race with my family than I would by taking them to Disneyland for a day. In Bakersfield we camped out and did our own cooking. Where's the expense in that?"

His next race is the "Nostalgia Drags" in Palmdale later this month. "I like to race, but the best part of racing events is the atmosphere and the people you meet. Racers are the best!."



FAMILY AFFAIR--SSgt. Richard C. Whitcomb receives help from his wife and children when participating in racing events. The staff sergeant recently took second place in the bracket finals of the Firestone Centerline ET Series. Posed with his winning car are Whitcomb, his wife, Alice, and children Monyka, John and Jeff.

NWC team loses to Pt. Mugu

Technical fouls and poor throws caught the NWC Varsity Basketball team off balance last weekend, resulting in two losses. NASA Pt. Mugu varsity players beat the NWC team 89 to 79 and 83 to 76.

According to Mike Exford, player-coach for the NWC team, technical fouls cost them the games. "We had two techs in the first game and five in the last game," he said. "Four of those five were received in the last two minutes of the game."

Exford acknowledged he missed a lot of free throws in the first game. "I was really off my mark," he said. "If I had hit my mark each time I had a free throw, we might have won that first game."

Despite being off on his free throws, Exford was still the high scorer for both games, making 27

points in the first game and bouncing in 36 points for the second match. Other high scorers in the first game were Vernon Nabors with 21 points and Charles Moore and Abe Washington, who threw in 12 points apiece. In the second match, Nabors tossed in 18 points and Amos Bouyer added an additional 12 points.

"We are definitely looking for a rematch on home territory," said Exford. "We will beat them the next time."

The NWC varsity team have their next challenge this weekend at home as they go head-to-head against NAVSTA Long Beach. Games will be played at 6 p.m. on Saturday and 11 a.m. on Sunday at Burroughs High School Gymnasium. Be sure to turn out and root the home team to victory!


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