

CLPL's gas station closes for repairs/renovation of equipment

China Lake Propulsion Laboratory's gas station will be closing for an extended period of time to allow for repairs and renovation of the fuel dispensing equipment. When the presently stocked fuel at CLPL is dispensed, the station will be closed. This should occur on approximately Aug. 15.

Those people who normally obtain fuel at the CLPL station can use either the station located in front of Public Works, the one located at IOB, or the one at NAF.

If you have any questions regarding the closure, contact Nancy Rodgick or Vicki McEnteein, Public Works, at NWC ext. 1143 or 1205 (Code 2671).

FURTHER MARKDOWNS

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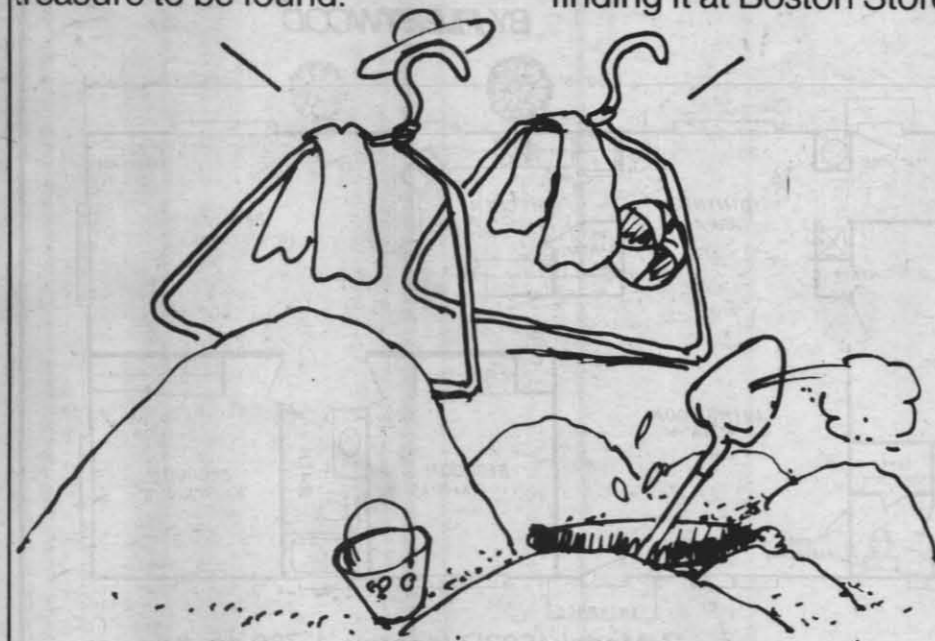
SAVE UP TO

60%

Intermediate markdowns may have been taken.

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(714) 993-4141

POMONA
(714) 593-0212
POWAY
(619) 748-2960

RIDGECREST
(619) 375-3567
ROSSMOOR
(213) 430-1001
(714) 826-1771

VICTORVILLE
(619) 241-7667
WHITTIER
(213) 947-2891

*Capt. Burt to retire
from U.S. Navy-p.3*

*Ice Cream Social
fun for all-p. 10, 11*

NWC Rocketeer

Naval Weapons Center, China Lake, California 93555-6001

Vol. XLIV, No. 29/July 21, 1989

People are best asset First night FSAT flight successful

China Lake's best asset, its people came through again. A China Lake team made the technical and procedural changes necessary to make the first night time flight of a full scale aerial target (FSAT) late last month.

Personnel from the Aircraft Department's Engineering Support Division, the Range Department and the Center's two civilian remote control pilots all played vital roles in this first night FSAT presentation at China Lake.

Intensified low-light camera permits night flights in any kind of lighting

When the Air Force had a requirement for night missile launches against full scale targets, the program office called China Lake because there was no such night flight capability on their own ranges. After some thought and investigation, the decision was made to go ahead. As a result, an Air Force F-15E Eagle fired an AIM-9 Sidewinder at one of NWC's QF-4 Phantom target aircraft on the moonless night of June 27.

Al Sorensen of the Tracking and Control Branch was credited with the engineering effort that made the new capability possible.

Sorensen, in discussing the project, said the hardest part was acquiring new television cameras to mount on the target aircraft. It took several months, and the excellent cooperation of the Center's Procurement Department, to take delivery of these specialized

cameras.

The light gathering capability of the intensified low-light camera is so good, it allows the remote pilot, sitting in the Range Control Center, to see things a safety pilot in the target's cockpit could not, such as beacons from aircraft flying in the Lancaster area.

John Haynes, head of the Track and Control Branch, said this development was a "significant new capability at NWC." For now, China Lake offers the only night FSAT capability in the country.

Once the cameras were acquired, modification of the aircraft took little time since the new cameras were so similar in size to the cameras used for daylight operations on the QF-4 and QF-86.

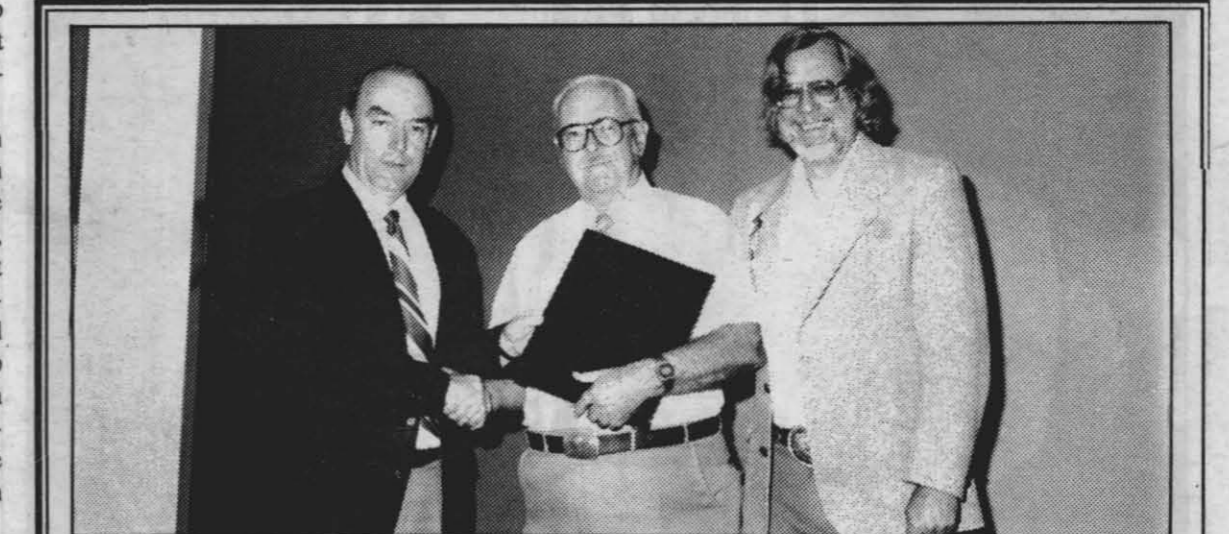
For most people involved with this project the only difference in tasks they performed was the time of day involved. Only the pilots, noted Mike Kaspar of the Target Systems Section, had a really different environment. Kaspar added it took Wayne Greene, the setup pilot, and the section personnel a little longer to prepare the Phantom, but only because of the time of day, not because the mission requirements were any different.

While extra caution was used because of the need to work at night, Bob Whisman in the Target Systems Section said it was really, "business as usual, it all went smoothly for us," as they installed the destruct package.

In the RCC ground control station Norman Osman said, "It's an (Continued on Page 6)



TARGET PILOTS--Harlan Reep and Dick Wright are NWC's civilian pilots responsible for remote piloting of the full-scale aerial targets, the QF-86 Sabrejet and the QF-4 Phantom. The pilots are standing next to the modified QF-4 used in the first night no live operator on board (NOLO) flight last month. Photo by PHAN Cary Brady.



PEER RECOGNITION IN ACTION--is demonstrated by the award of the first-ever "Distinguished Fellow" award presented to John Pearson, center, for his achievements in detonation physics. Gerry Schiefer, left, technical director, NWC, and Richard Hughes, an originator of the Fellow Program, presented the Fellow awards on July 13 to 29 honorees. Photos of newly named 'Senior Fellows' and 'Fellows' appear on Page 7. Photo by PHAN Cary Brady.

NWC Wellness Corner



Questionnaire results revealed

BACKGROUND

To help the Wellness Program assess its performance and plan for future programs, a questionnaire was distributed to all NWC employees who participated in the 1989 Wellness Assessments. Questionnaires were distributed in two ways. Employees who participated in the blood analyses only were mailed a questionnaire form in conjunction with their blood results. Other employees were given questionnaires when they attended their fitness assessment. All participants were instructed to return their completed questionnaires to the Wellness Program Office, Code 2243.

PARTICIPATION

Approximately 1,560 employees participated in the blood analyses (BA) and 972 participated in the health risk appraisal (HRA)/fitness assessments (FA). Included in the FA were 143 high risk employees. In 1988, participation in the BA was 2,453 employees and 2,235 in the HRA/FA. Nine hundred eighty one questionnaires were returned; a response rate of 63%. Respondents reported 1988 participation rates as 68% in the BA, 55% in the HRA, and 59% in the FA. Eleven percent of respondents were not employed at NWC in 1988. Ten percent were employed but stated reasons such as travel, excessive workload, or no knowledge of the 1988 assessments for their lack of participation.

Have you made any changes in your lifestyle because of your involvement? Lifestyle changes were reported by 64% of the respondents as a result of their involvement with the Wellness Assessments. Lifestyle changes reported were:

- 384 (39%) increased exercise
- 242 (25%) lost weight
- 471 (48%) decreased dietary fat

•206 (21%) increased dietary complex carbohydrates

- 217 (22%) decreased cardiac risk ratio
- 133 (14%) decreased blood cholesterol
- 113 (12%) decreased blood triglycerides
- 71 (7%) decreased blood pressure
- 26 (3%) stopped smoking

What type of exercise do you do? Aerobic exercise accounted for 78% of the respondents exercise; 5% non-aerobic, 3% sports, and 7% reported no exercise.

Have you participated in any other wellness sponsored events? Wellness sponsored events other than the assessments were attended by 41% of the respondents. Those that apply include:

- 253 (26%) participated in the fall blood analyses
- 215 (22%) attended Wellness classes and lectures
- 109 (11%) attended aerobic dance classes

How often do you feel you need a blood assessment? The majority of respondents (75%) would like a blood analysis every 6-12 months. Individual group data indicates this same time period.

How often do you feel you need a fitness assessment? The majority of respondents (55%) would like a fitness assessment every year. Individual group data indicates this same time period.

What additional programs would you like to see included in the Wellness Program in the future? Although only 11.8% of respondents answered this question, the most requested areas for expansion were more nutrition classes (13 people), additional tests included in the blood analyses (15 people), and ballroom dancing (10 people). Conclusions drawn as a result of survey answers will be discussed next week.

Community says farewell to Captain Burt on August 4

Capt. John Burt, outgoing commander of the Naval Weapons Center, will be saluted at a farewell and retirement celebration on Friday, Aug. 4. The celebration begins at 6:30 p.m. at the NWC Seafarer Club and residents of the Indian Wells Valley are encouraged to attend.

The evening will feature a no-host bar and heavy hors d'oeuvres for \$6 per person. Advance reservations are needed and can be made by calling NWC ext. 3511 before the close of business on Monday, July 31.

Capt. Burt is a native of Corvallis, Oregon and a 1965 graduate of the U.S. Naval Academy. He was designated a Naval Aviator in 1967. His last assignment before assuming command of NWC on Aug. 13, 1986, was as program coordinator for Support Aircraft and Weapon Systems Managers at the Naval Air Sys-

tems Command in Washington, D.C.

Following his retirement, Capt. Burt will become special assistant for acquisition to the head of the Federal Aviation Administration.

He is married to the former Mary Mechesney. They have three children: John Burt, a student at Cerro Coso Community College; and Heather and Kathryn, both students at Virginia Tech in Blacksburg, VA.

Capt. Douglas W. Cook will relieve Capt. Burt as NWC Commander during a formal change of command and retirement ceremony at 9 a.m. on Monday, Aug. 7. The change of command will take place in front of the NWC headquarters building. The public is encouraged to attend. Cake and punch will be served following the ceremony.

Health and Nutrition books available at Training Center

NWC's Wellness Program, in the Training Center, has three new books available. The books are *Starting Out Well: A Parent's Approach to Physical Activity and Nutrition* by Helen Fish, Ronald Fish and Lawrence Golding; *Osteoporosis: A Guide to*

Prevention and Treatment by John Aloia, and *Conquering Athletic Injuries* by Paul Taylor and Diane Taylor.

Call NWC ext. 2451 to check out any of these books or stop by Room 100 at the Training Center.



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EXTRATERRESTRIAL LIFE--Is the topic for tonight's HiDEA dinner meeting, beginning at 6 p.m. at Farris' at the Heritage. Ed Fink, president-elect of High Desert Engineering Association, left, observed while Mike Mower, mayor of Ridgecrest, center, and Capt. John Burt, NWC commander, signed a proclamation citing the significance of Space Observance Week.

ROCKETEER CLASSIFIEDS

1 PERSONALS

URGENT! Ride needed from Kern River Valley to Thompson Lab or Roomate needed for mother & her 2 yr. old baby in R/C area. Please reply before 7/24. 1-379-4226.

"Around the World with Jesus" vacation bible school for 5-10 yr. olds at Ridgecrest Christian Fellowship. 3255 Downs. 375-7301. Monday July 31st thru Friday, August 1, 9:00 a.m. to 12:00 p.m.

15 SERVICES

FIREWOOD - Almond, Apple, Pine & Fir. 377-4465. Wilhorn & Sons Firewood Sales.

20 RENTALS

MOBILE HOME - 12x52, 2BR in park. \$9,800, 446-7284.

LEASE/OPTION TO BUY - nice 2 bedrooms, garage, dishwasher, 237A Richmond Rd. NWC back gate. Assume VA loan, no qualification! Small down, owner carry second. \$550. 446-6487 eves.

20 RENTALS

SPARKLING CLEAN near NW. 2 bedrooms, garage, dishwasher, refrigerator, evaporative cooler, water/trash paid. \$445. 237A Richmond Rd. 446-6487 eves.

KERNVILLE - OVERLOOKS town. 5 min. walk to river. By the week/week-end. Casl 446-3118 after 5 p.m. or leave message.

Section 8, or lease option. 4BR, 13/4 BA, garage, 212 Valley, Inyokern, behind country park. Assume VA loan, no qualification, low down. \$650/mo. 446-6487.

3,000 sq. ft. CUSTOM HOME. 4 BR, huge master bedroom. CasaDelSol. 1st and last, sec. deposit. Must see! For inquiry Call 446-4640.

25 AUTOMOTIVE

1984 Chevy S10 Blazer 4x4. 2.8 V6, ps, pb, a/c, am/fm cass., tilt, custom wheels, trailer hitch. \$7,600. 377-5876 After 5.

1971 Volkswagen van, good cond., 30 gal. aquarium - \$70. 446-6402

25 AUTOMOTIVE

CAMPER SHELL-fits Chevy pick-up, short bed. 446-7044

1985 MITSUBISHI Cordial, one-owner, new tires, excellent condition, 50k miles, see on NWC Lemmon lot. 375-7514.

1984 Suzuki Tempter, \$700-needs work. 1986 Honda Magna, brand new, take over pmnts., need to sell - moving. 446-2780 (EVES) ask for Kirk.

1980 Mazda RX7 race car & trailer. Currently running SCCA regional ITS class at Riverside & Willow. Full cage & current log book. Great for regionals. Solo or solo II. Not street legal. Asking \$3700. 377-5876 after 5.

30 MISCELLANEOUS FOR SALE

CREAM WEDDING GOWN & VEIL, sz. 12, never been worn \$150; rose-colored bridesmaid dress, sz. 12 - \$50; 2 white satin flower girl dresses & slips, sz. 4 & 6 - \$40 each. 446-6954.

35 GARAGE SALES

DRIVEWAY SALE - July 21 & 22, Fri. & Sat. 7-7. Clothes, households, more. 316 Vieweg Circle.

40 PETS

AKC REGISTERED German Short-haired Pointer. White and Liver in color, lot of white. Wormed, 1st shots, declawed. Taking deposits. Avail. around Aug. 7. 446-4492 after 5 p.m.

45 HOMES

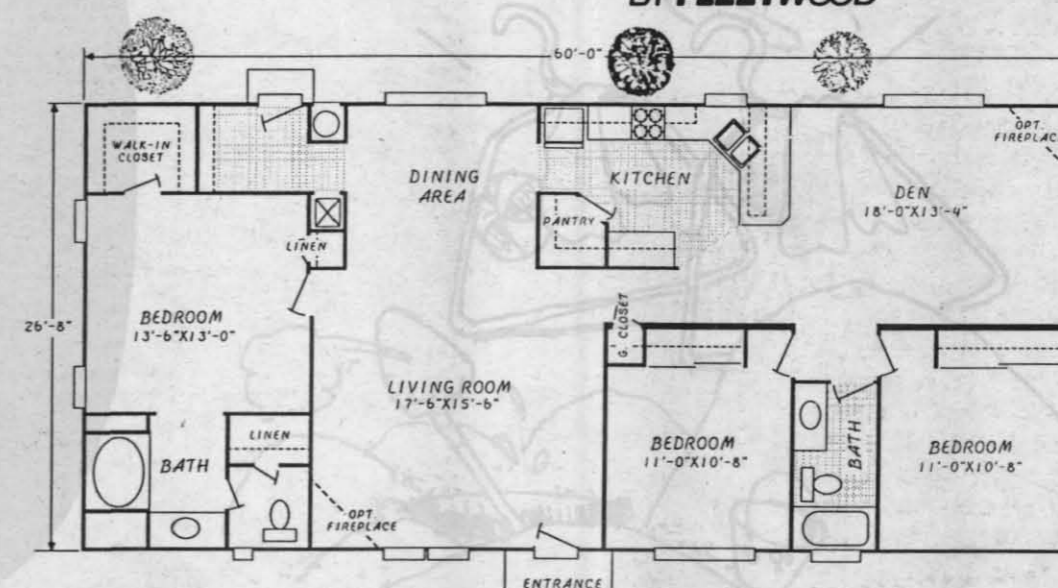
1987 - 14x66, 2BR, 2 BA Singlewide. Excel. cond. - Priced below appraisal value; \$21,000. Many extras: carport, 8x20 front patio, storage shed, bay windows, etc. 446-6915 or 446-6604.

FOR SALE BY OWNER - 3 bedroom, 2 bath home in Heritage Village. Less than 3 years old. Premium lot facing park and mountains. Fully landscaped. \$102,000. Call 446-2388 eves.

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LA CASA MOBILE HOMES SALES

SANDALWOOD BY FLEETWOOD



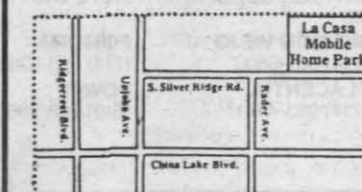
Model 4603D (approx. 1,760 sq. ft.)
3 Bedrooms/2 Baths
Ser. # 11713-2S

Suggested Retail Price	\$39,585
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50 Lottery Tickets with return of this ad upon leasing - one per lease

375-6543

For Special Attention - Call Ahead for Appointment
(next to Kern Regional Park & French Street)

449 Toro Drive

Attendees receive four hours EEO credit

Several sexual harassment prevention sessions are planned for July 27, 28

Morning and afternoon sessions on sexual harassment prevention will be open to all employees on July 27 and 28 in Michelson Laboratory, Room 1000D. No training request is required. Each session can accommodate 150 people and is available on a walk-in basis; a sign-in sheet will be circulated for four hours' EEO credit. The morning sessions begin at 8 a.m. and the afternoon sessions begin at 12:30 p.m. Mr. Lou Perez of the Office of Personnel Management (OPM) will be the instructor.

"Sexual harassment, which creates a hostile or offensive environment for members of one sex, is every bit the arbitrary barrier to sexual equality at the workplace that racial harassment is to racial equality. Surely, a requirement that a man or woman run a gauntlet of sexual abuse in return for the privilege of being allowed to work and make a living can be as demeaning and disconcerting as the harshest of racial epithets." (Henson v. City of Dundee, 11th Cir. 1982).

In 1987, the U.S. Merit Systems Protection Board queried 13,000 federal employees (8,523 employees responded) to determine employee attitudes toward and experiences with uninvited behavior of a sexual nature. Among the board's findings: (1) the most frequently experienced type of uninvited sexual attention is unwanted sexual teasing jokes, remarks, or questions; (2) coworkers are much more likely than supervisors to be the source of sexual harassment; (3) many victims tried more than one response to unwanted sexual attention. Although later judged ineffective by most of them, almost half of all victims tried to ignore the behavior or otherwise did nothing in response; (4) during the two-year period from May 1985 through May 1987, sexual harassment cost the federal government an estimated \$267 million. This cost is in addition to the personal cost and anguish many of the victims

had to bear.

In response to the board's findings and recommendations, the Secretary of the Navy (SECNAV) issued an ALNAVSTA message to all Navy commanders and commanding officers which required that sexual harassment training be provided to all personnel. Heads of activities and commands were directed to ensure timely disposition of complaints of sexual harassment, to impose appropriate penalties, and to establish procedures for monitoring and reporting compliance. Upon completion of this session, you will understand the legal and regulatory basis of sexual harassment policies; how to handle the harasser; how to document a case of sexual harassment; how complaints are handled; and how to identify sexual harassment in all its various forms.

All personnel are encouraged to attend one of these sessions. For additional information, call NWC ext. 2686.

NWC employees need hours

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.

under went 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 had a spinal fusion and neural surgery on his right arm. He has been able to return to work only part time.

Robert Donsbach, Specification Writer/Editor, Code 3656 -- suffered a heart attack on May

4, 1988 and will be unable to return to work until the end of July.

John Hill, Engineering Data Management Specialist, Code 3654 -- has intestinal problems, including internal bleeding, which have led to anemia and long term absence from work.

Joan A. Johnson, Secretary, Code 3592 -- needs annual leave to care for her husband, who is being treated for cancer.

Leave Donation Form Complete and send to Code 221

From: _____

Code: _____

I wish to donate _____ hours of my annual leave to: _____

I have attached a copy of my last leave and earning statement.

Signature _____

Date _____

Dr. Madrigal visits

Dr. Orlando Madrigal of Cal-State University Chico will be on-Center Aug. 18 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 Benese at NWC ext. 2648.



Macintosh class offered at NWC

Intro to the Macintosh (7 hours)

Sept. 19, 0800-1600, Training Center. By Dan Burnett, NWC.

Intended Audience: Beginners with little or no Macintosh experience.

Scope: You should learn to use the keyboard and the mouse to input information to the Macintosh, change software to suit the current application, view files and folders on a data disk, select and drag icons, open icons through the file menus, activate and close windows, use Desk Accessories such as Chooser, Finder and Calculator, use the Clipboard to transfer information, use some typical applications packages such as a wordprocessor, a spreadsheet and/or a graphic program. (Applications to be surveyed may include MacWrite or WORD, MacPaint, MacDraw or MacDraft, Excel or HyperCard -- this class will not be able to cover these applications in any detail -- the student is referred to other classes offered for specific applications.

Note: Enrollment Form 12410/73 is required. Deadline: Sept. 5.

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ALABAMA BOUND--Retiring Chief George M. Chisenall, Public Works Department chief builder accepts best wishes from fellow Geothermal worker, LCdr. Keith Hahn (right). Chisenall spent 21 years with the U.S. Navy. Photo by PHAN Cary Brady.



Builder retires from Navy

Twenty-one years of Navy service culminated July 12 in retirement for Chief George Marshall Chisenall, a Public Works (PW) Department chief builder.

Chisenall, who spent his last Navy tour with the NWC Geothermal Program Office, should be well on his way back to Alabama with his wife, Joanne, by the time this article appears. They will make their home south of Mobile where he plans to take an extended vacation before going back to work.

During the ceremony at the Department Conference Room, Capt. Ken Kelley, PW Officer, presented Chisenall with Department and Center plaques. "You

are going to be sorely missed by this department--civilians, military, and especially the geothermal people," related Capt. Kelley. The officer then bestowed the traditional folded American flag in a wooden and glass case built by the PW shop.

Joanne Chisenall was awarded a certificate of appreciation "for her unselfish, faithful and devoted service during her husband's Naval career," and stood by her husband as Capt. Kelley read the certificate that officially transferred him from active duty to reserve status.

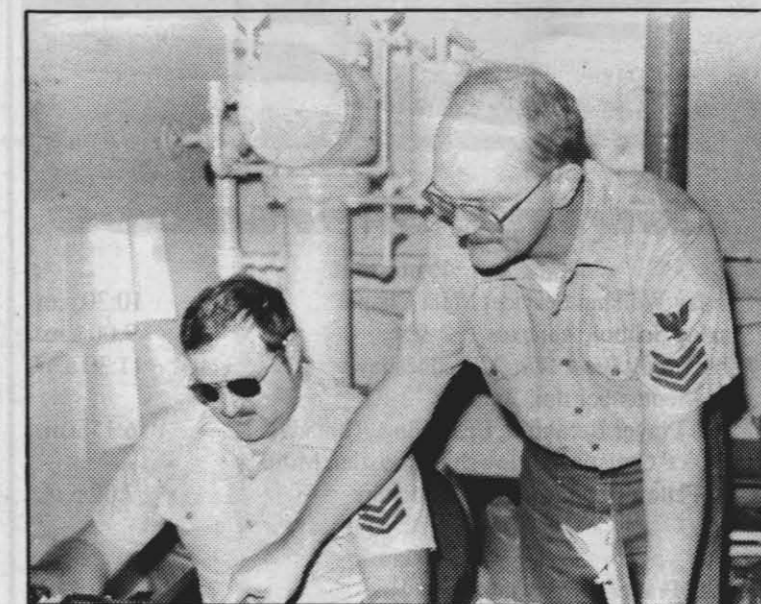
Robert Voight, officer in charge of the Reserve China Lake Seabees extended the group's

appreciation for Chisenall's active membership and for his liaison between the Seabees and the Center's PW department.

A final presentation was made by LCdr Keith Hahn of the Geothermal Program Office--a glass seabee mounted on a plaque. "On behalf of the entire program office," Hahn relayed, "We'll miss you. We wish you a fond farewell and a happy retirement."

Chisenall thanked his coworkers from geothermal for making his last Navy job an outstanding experience. A good natured "I'm happy I'm gone," were his parting words.

ASSURING QUALITY--AE1 LeRoy Thissell (left) gets some coaching from AQ1 Michael Haney, VX-5 Supervisor of the Quarter. Haney is the lead petty officer in the QA branch.



Haney is outstanding supervisor

In recognition of his outstanding performance and positive attitude in pursuit of assigned duties, Petty Officer Michael Haney has been selected as Air Test and Evaluation Squadron Five's (VX-5) Supervisor of the Quarter for the Third Quarter, Fiscal Year 1989.

The aviation fire control technician, first class, is the leading petty officer in VX-5's Quality Assurance Branch. In that capacity he is responsible for monitoring numerous aircraft programs, insuring discrepancy reports are

released in a timely manner by the 10 sailors under his supervision.

According to his commendation letter, signed by Capt. Eric Vanderpoel, VX-5 commanding officer, "Haney's superb accomplishments directly contributed to the successful completion of the squadron's mission of operational test and evaluation." When it became necessary for him to temporarily assume the duties of the superiors, Haney "discharged all duties flawlessly."

Haney has 16 years with the

Naval Weapons Center Changes Commanders

Capt. Doug Cook will relieve Capt. John Burt as commanding officer of the Naval Weapons Center on Monday, August 7 at 9 a.m. in a traditional Change of Command ceremony. A retirement ceremony for Capt. Burt will also be included during the event.

All China Lakers are invited to attend the ceremony on the lawn in front of the Administration Building. Rear Admiral Gentz and Rear Admiral Weaver will deliver addresses during the program.

Music will be provided by the Ridgecrest Community Band, conducted by NWC's Stan Ricker.

Capt. Douglas W. Cook is currently the executive assistant to the Commander, Space and Naval Warfare Systems Command and is the Command's Inspector General.

Upon his retirement from the Navy, Capt. Burt will leave China Lake to assume the title of Special Assistant for Acquisition to the FAA Administrator, Admiral James Busey (Ret.).



"All This Over Prunes!"

A certain mother served stewed prunes for dessert every now and then, and her little boy hated prunes with a passion. The mother used the kind of discipline which is probably very familiar to some of us. When her son balked at eating his prunes, she would say, "God won't like that. God doesn't like little boys who don't finish their prunes. God will be very angry."

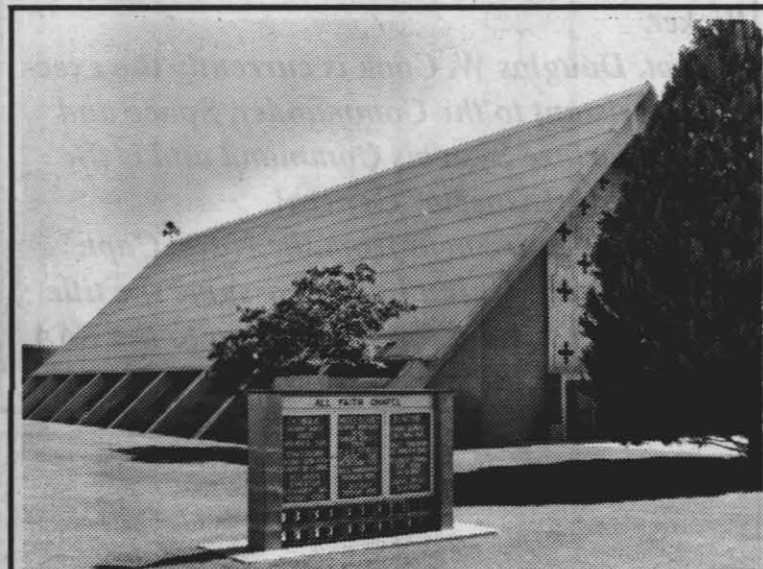
This was typical of the pattern in all the rest of his life as well.

One evening he got down to the last two prunes in the dish and he had had it. He didn't care if all hell broke loose, he was not going to eat those last two prunes. The mother tried all of the usual approaches: "God doesn't like little boys who don't eat their prunes"--the whole bit. Finally she said, "Alright, go to bed this instant. You have been a very bad boy and God will be very angry." A few minutes later a terrible thunderstorm broke loose--lightening flashing, thun-

der roaring, the wind was whipping the rain against the window. The mother thought the boy would be terribly frightened, so she went up to comfort him. She expected to find him in bed whimpering in fear. Instead, he was standing at the window with his face pressed up against the glass, and he was saying, "My, my, such a fuss to make over two prunes." The adult in this boy was rejecting the absurd, destructive theology of his mother.

Many of us have been brought up exactly the same way. God will love us if we eat our prunes. There are a lot of us walking around feeling guilty because we haven't always eaten all our prunes. We have this deep feeling inside that God is not accepting us after all. That is why it is important for us to repeat the Good News in every way we can: God is a gracious god; His love for us is never withdrawn. "This is love: not that we loved God, but that He loved us and sent His Son as an atoning sacrifice for our sins." I John 4:10.

Lt. G.L. Goodman, CHC, USNR
Assistant Command Chaplain



Divine Services

Protestant	
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	6:15 a.m.
Officers' Christian Fellowship/Christian Military Fellowships, Annex 4, Thursday	7:00 p.m.
Islamic	
Jumaa Prayer (Friday in Annex 4)	1:00 p.m.
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
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August 17 is family steak night

Summer means barbecues and outdoor social gatherings, so the Seafarer Club is hosting a Family Steak Night on Thursday, August 17 from 7 to 9 p.m.

The pool will be open and the grill will be lit for all members of China Lake's military and civilian community. The 'Cook your own Steak' buffet will be \$7.95 for adults and \$2.95 for those 12 and under.

Reservations are required by Monday, August 14. Call NWC ext. 2581 to reserve your spot now.



Low-cost drilling experiment to aid Third World countries

A hydraulic winch designed for deep sea fishing boats and Naval vessels appears to offer promise for hoisting a unique China Lake drilling project the final few feet to success.

Gene and Marianne Benson, the husband-and-wife team conducting the current phase of their test and evaluation project here on the Upper Mojave Desert, expect such a winch to overcome the final technological obstacles in their thrust to develop a revolutionary, low-cost technique for drilling wells in water-poor areas of the Third World.

The Benson's equipment is designed to drill to a depth of 1,000 feet, and the entire rig -- engines, generators, pumps, scaffolding, cable, and all -- fits into their family car, a 1979 Oldsmobile station wagon. Powered by hydraulic motors, the rig requires no drill stem and it cases the hole as it drills. The targeted cost, once the project moves beyond the prototype stage, is under \$12,000. By contrast, say the Bensons, conventional equipment would likely carry a price tag in 6 figures and weigh more than 15 tons -- not exactly what's needed in underdeveloped countries

where "roads" are often no more than foot-paths snaking across parched wilderness or through vine-choked jungles to villages where polluted water sources condemn inhabitants to a relentless cycle of disease, poverty, and despair.

God's Drill Team, as the energetic couple call their tax-exempt, non-profit charitable corporation, is on the brink of completing the local phase of its on-site drilling experiments with a resounding victory.

They have identified a Southern California source for the specialized hydraulic winch to which their ingenious research and testing program has led them. As soon as they can obtain and install the winch, along with certain electronic controls to enhance safety features, they expect to move swiftly to the next stage: a full-performance field test to bring clean water, health, and hope to the village in Central America whose plight three years ago inspired Marianne and Gene Benson to start upon their mission of mercy.

More information is available from God's Drill Team, P.O. Box 965, Ridgecrest.

Braithwaite Party Postponed

Moyle Braithwaite's retirement party, originally scheduled for July 27 has been postponed. Watch for rescheduling at a later date.

CSUN classes...

(Continued from Page 16)

1200 at the Training Center, with additional lab times arranged with the students as need on Tuesdays after 1910. By Professor Gadoski, CSUN, (818) 855-2166.

Scope: Study of structural analysis and design problems using matrix methods. Complete development of the flexibility and stiffness methods of analysis. computer applications to structural analysis and design. Three hours of lecture and three hours of laboratory per week.

Text: *Structural Analysis*, Sack, McGraw-Hill, latest edition.

ME 501A: Seminar in Engineering Analysis (3 units)

Sept. 8-Dec. 18; Mondays and Fridays, 1610-1740; Training Center. By Dr. Rockwell, NWC, ext. 4802.

Scope: Investigation of mathematical techniques for the solution of engineering problems. Topics include Fourier's series and integrals, Laplace and other linear transforms, partial differential equations, Bessel functions and matrix theory.

Text: *Advanced Engineering Mathematics*, Wyle and Barret, fifth edition.

Note: This is a core course for the master's degree programs in electrical engineering, mechanical engineering, and applied mechanics through CSUN.

Math 477: Numerical Analysis

(5 quarter units)

Sept. 13-Nov. 15; Wednesdays, 1610-2110; Training Center. By Professor Mohamed, CSUB, (805) 664-2130.

Prerequisite: Calculus III or consent of instructor.

Scope: Number representation and basic concepts of error; numerical solutions of nonlinear equations and systems of equations; interpolation and extrapolation; numerical differentiation and integration; numerical solution of ordinary differential equations; approximation by spline functions.

Note: This is a core course in the math/science option for the bachelor's degree program in computer science through CSUN. This is a prerequisite for ME 592: Computational Fluid Dynamics to be offered Spring 1990. This is a foundation course for the mechanical engineering and applied mechanics master's degree programs through CSUN.

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, Cal-State Bakersfield, or Cal-State Northridge, must be approved on an off-Center Training Request (DD Form 1556) before registration if NWC is to pay for the training.

For more information, contact Cecil Webb at NWC ext. 2648.

Deadline is July 31

TSP open season ends

On July 31 the Thrift Savings Plan (TSP) Open Season closes. During the open season, employees have the opportunity to change their current enrollment or to make an initial participation election.

The TSP is the third part of a FERS employee's retirement plan. Personal contributions to TSP by FERS employees are a very important part of their future financial security. FERS employees receive an automatic government contribution equal to one percent of their basic pay per day period to the TSP. In addition, the

government will match any contribution that FERS employees make to TSP up to four percent of basic pay. FERS employees may contribute as little as one percent of their basic pay per pay period, or even a smaller, fixed-dollar amount, such as \$5 per pay period, and still get a government contribution. FERS employees can contribute as much as 10 percent of their basic pay. All contributions to the TSP are tax deferred.

CSRS employees may contribute up to five percent of their basic pay. While they do not

receive matching government contributions, their contributions are tax deferred.

Enrollments or changes will be effective the beginning of the pay period following receipt of the enrollment form by the Human Resources Department.

Employees wanting to change their current enrollment or begin participation in the TSP should contact their PMA.

For further information, employees should contact their PMA or call Virginia Spille at NWC ext. 2592.

ARE YOU PUTTING ME ON?



Procurement Department, Training Center join forces

Certificate in government contract management is available to local workers

In conjunction with the Procurement Department (Code 25), the Training Center (Code 224) is planning to offer an eight-course series leading to a "Professional Designation" in government contract management. The eight courses are part of a certificate program offered by the University of California at Santa Barbara.

The plan is to offer two courses during Fiscal Year 1990. Additionally, two courses may be transferred toward the certificate from Cal-State Bakersfield electives, already available on-Center. Completion of this certificate program will enable employees to compete for available positions in the Contract Specialist Series DA-1102-1 (GS-5). Locally, this series has a target grade of DP-3 (GS-12/13).

Completion of this certificate program results in a "Professional Designation." This designation is recognized by the National Contract Management Association. Other benefits of a "Professional Designation" are:

- Show evidence to a current or prospective employer of recent

professional level training in the field of contract management for career advancement;

- Gain additional managerial & technical expertise in your field;

- More effectively compete for jobs; and

- Prepare for a new career.

Currently, local instructors are being recruited to staff this program. This first course will begin in spring of 1990. Each course will meet one night per

week for three hours for a 12-week period. Courses will be open to non-government personnel on a space available basis, with a pre-rated tuition fee of approximately \$325. For more information on this program, or to get your name on a mailing list, fill in the form below and return it to Vicki Munro, Code 224. Non-government employees are encouraged to respond to this unique opportunity.

To: Code 224 -- Vicki

From: _____ Code _____

Phone: _____

SUBJ: USCB Certificate In Government Contract Management

____ Please send more information.

____ Please put me on your mailing list for future information regarding the certificate program.

____ I might be interested in applying as an instructor. Please call me.

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Local Fall schedules announced CSUC

The following classes are being offered this Fall for the Cal-State University, Chico's (CSUC) Computer Science Program (bachelor's and master's degrees). 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 in class on the first meeting. *Deadline for enrolling is 10 calendar days before the starting date of the class.*

CSCI 151: Algorithms and Data Structures (3 units)

Sept. 2-3, Sept. 23-24, Oct. 28-29, Nov. 18-19, Saturdays and Sundays, 1800-1600; Training Center. By CSUC staff.

Prerequisite: CS 16: Pascal or equivalent or consent of instructor.

Scope: The representation, application, and processing of a wide range of data structures, including lists, trees, and graphs. The analysis of algorithms. Recursive and iterative techniques for problem-solving.

Text: *Data Structures and Programming Design*, Druse, Prentice-Hall.

Note: This is a core course for the bachelor's degree program in computer science through Cal-State, Chico. This is a foundation course for the master's degree program in computer science.

CSCI 397C-3: Seminar in Advanced Computer Graphics (3 units)

Aug. 29-Dec. 21; Tuesdays and Thursdays, 1400-1515; Training Center. By Professor James Murphy, CSUC, (916) 895-4022.

Prerequisite: CSCI 231: Computer Graphics or equivalent or consent of instructor.

Scope: A treatment of advanced topics in computer graphics as presented in recently published journals with emphasis on rendering three-dimensional scenes on raster displays and antialiasing, hidden surface removal, texture mapping, and realistic illumination models.

Text: *IEEE Tutorial: Computer Graphics: Image Synthesis*, Kenneth Joy, Charles Grant, Nelson Max and Lansing Hatfield. The Computer Society, 1988.

CSCI 227: Discrete Simulation Systems (3 units)

Aug. 29-Dec. 21; Tuesdays

and Thursdays, 1100-1215; Training Center. By Professor Ralph Huntsinger, CSUC, (916) 895-5740.

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

Scope: Principles of system modeling, simulation models and languages, discrete systems, industrial dynamics, use of probability concepts, queuing patterns, and case studies.

Text: *Simulation of Waiting-Line Systems*, S. Solomon. Prentice-Hall, 1983.

CSCI 371: Comparative Advanced System Design Architecture (3 units)

Sept. 16-17, Oct. 14-15, Nov. 4-5; Saturdays and Sundays, 0800-1600; Training Center. By Professor Cormovick, CSUC, (916) 895-4022.

Prerequisite: CSCI 270: Systems Design or equivalent or consent of instructor.

Scope: An introduction to advanced system architectures, to include parallel processing, memory and I/Q sub-systems, supercomputing, pipelines, vector and array processing, data flow machines, and VSLI computations. System design problems and candidate applications are examined for design conditions.

Text: *Computer Architecture and Parallel Processing*, McGraw-Hill, 1984.

CSCI 278: Computer Networks (3 units)

Oct. 30-Nov. 1, Dec. 2-3, Dec. 16-17; Saturdays and Sundays, 0800-1600; Training Center. By Professor Seung Bae Im, CSUC, (916) 895-4022.

Prerequisite: CSCI 152: Operating Systems Programming or CSCI 153: System Software and CSCI 172: Systems Architecture or equivalent or consent of instructor.

Scope: Covers the concepts, vocabulary, design issues and techniques currently used in the area of computer networks. Topics include history and evolution, transmission media, interconnection topology, control methods, protocols, types of nodes, network interfaces, performance analysis, diagnosis and maintenance, taxonomy, bridges and gateways. Case studies of existing state-of-the-art networks are included.

Text: *Data and Computer Communications*, Stallings. Macmillan, second edition.

Math 477: Numerical Analysis (5 quarter units)

Sept. 13-Nov. 15; Wednesdays, 1610-2110; Training Center. By Professor Mohamed Ex-Ansary, CSUB, (805) 664-2130.

Prerequisite: Calculus III or consent of instructor.

Scope: Number representation and basic concepts of error; numerical solutions of nonlinear equations and systems of equations; interpolation and extrapolation; numerical differentiation and integration; numerical solution of ordinary differential equations; approximation by spline functions.

Note: This is a core course in the math/science option for the bachelor's degree program in computer science through CSUC. This is a prerequisite course for ME 592: Computational Fluid Dynamics to be offered Spring, 1990. This is a foundation course for the mechanical engineering and applied mechanics master's degree programs through CSUN.

CSUN

The following classes are being offered this Fall 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 58: Non-Linear Control Systems (3 units)

Sept. 7-Dec. 21; Thursdays, 1610-1910; Training Center. By Professor Ed Gribes, CSUN, (818) 885-2180.

Prerequisite: EE A80N: Fundamentals of Control Systems or equivalent or consent of instructor.

Scope: Analysis of non-linear systems by means of describing functions and phase-plane diagrams. Stability studies by means of the second method of Liapunow.

Text: TBA.

EE 565N: Radar Systems (3 units)

Sept. 6-Dec. 18; Mondays, Wednesdays, and Fridays, 1130-1230; Training Center. By Dr. Wade Swinford, NWC ext. 2878.

Prerequisite: EE 550N: Random Processes or equivalent or consent of instructor.

Scope: Covers pulse and CW radars and target cross-section, receiver noise and losses, signal detection and matched filters, pulse compression, target parameter estimation, clutter and interferences.

Text: TBA.

IE 504: Economic Analyses of Engineering Systems (3 units)

Sept. 6-Dec. 20; Wednesdays, 1610-1910; Training Center. By Professor Mel Lifson, CSUN,

(818) 885-2166.

Prerequisite: IE 405: Engineering Decision/Risk Analysis is recommended, but not required.

Scope: Evaluation of economic feasibility of large scale engineering systems. Projections of future economic environment, growth of demand, planned expansion of the system use of resources, levels of confidence in projections, risk evaluation and profitability analysis.

Text: Instructor will distribute notes.

Note: This is a core course in the Master's Degree Program in Systems Engineering.

ME 590A: Advanced Topics in Fluid Dynamics--Inviscid Flow (3 units)

Sept. 7-Dec. 21; Thursdays, 1610-1910; Training Center. By Dr. Gutmar, NWC ext. 3745.

Prerequisite: ME 490: Fluid Dynamics or equivalent or consent of instructor.

Scope: Application of analytical and numerical techniques to the solution of inviscid flow problems. Topics include incompressible and compressible flow, one-dimensional and multi-dimensional steady flows, one-dimensional unsteady flows, small perturbation theory and the method of characteristics. Emphasis on aerospace and energy related applications.

Text: *Gas Dynamics*, Vol. 1, M.J. Zucrow and J.P. Hoffman. John Wiley, latest edition.

CE 436: Structures II (4 units)

Sept. 5-Dec. 19; Tuesdays, 1610-1910; Training Center. There will be a lab on Wednesdays, Sept. 6 and 13 from 0900 to (Continued on Page 17)

Soviet Acquisition Process addressed at July 26 briefing

Bill Holder, Chief, Advanced Systems Resources and Management Division, Foreign Technology Division (FTD), Wright Patterson AFB will speak on Soviet Acquisition Process on Wednesday Jul. 26 from 1 to 3:30 p.m.

The briefing which is open to division heads, program managers, branch heads, and project engineers will be held in Building 500 (formerly the Officers' Club) in the Mojave Room.

Holder, a 24-year employee of the Foreign Technology Division began with the FTD Space Systems Division in 1964 working as a technical analyst of Soviet space launch systems. In 1973, he moved to the FTD Directorate of Technology as a lead analyst in the Advanced Systems Resources and Management Branch (TOTM). Since April 1986, he has

been the Division Chief of the Advanced Systems Resources and Management Division receiving a superior management rating from the 1988 IG Team.

Holder has been very active in a number of national-level activities including the preparation of a national-level Soviet R&D Overview Study of which he is the prime author. His interest in space continues into his off-duty hours where he is a nationally recognized aerospace writer.

Throughout the past several years, he has averaged at least 25 missile and space associated briefings annually. During his FTD career, Bill has received a number of Superior Performance Ratings and Sustained Superior Performance Awards. He also received the USAF Civilian Meritorious Service Award in 1984.

Letters to the editor

Thank you China Lakers for making the annual Savings Bond Campaign a great success. I'd like to remind you that saving bonds allotments can be increased or initiated at any time during the year simply by stopping by the Payroll Office in the NWC Administration Building.

Savings Bonds are normally delivered about two to three months after the purchase date. For example, if you bought your first bond in July you should receive it in September or October. If more than three to four months go by without receiving your bond, please contact the Payroll Office at NWC ext. 2121.

Thank you,
Cindy Smith
Employee Relations Division (Code 221)

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

Administration Building
SCF: HAMILTON
SCF: MATHEWSONW
SCF: MACBRUCE

OR CODE 0121



Treaty signed 40 years ago

WASHINGTON (NES)--In 1949, the fear of further Soviet westward expansion led the European allies to form a unique alliance with the United States and Canada in order to guarantee their security through a system of collective defense.

The North Atlantic Treaty was signed on April 4, 1949, giving birth to an alliance comprised of 16 independent nations--Belgium, Canada, Denmark, France, Federal Republic of Germany, Greece, Iceland, Italy, Luxembourg, Netherlands, Norway, Portugal, Spain, Turkey, United Kingdom and the United States.

The preamble to the 14-article treaty signed in Washington, D.C., states its purpose: "The Parties to the Treaty reaffirm their faith in

the purposes and principles of the Charter of the United Nations and their desire to live in peace with all peoples and all Governments.

"They are determined to safeguard the freedom, common heritage and civilization of their peoples, founded on the principles of democracy, individual liberty and the rule of law.

"They seek to promote stability and well-being in the North Atlantic area.

"They are resolved to unite their efforts for collective defense and for the preservation of peace and security.

"They therefore agree to the North Atlantic Treaty."

Article 5 of the treaty provides that an armed attack against one or more member nations in Europe or North America shall be considered an attack against all members.

When the Communists attacked South Korea in June 1950, fears of a growing Russian threat to Western Europe

supreme allied commander in Europe has always been an American general.

Approximately 2.6 million men and women are stationed in Western Europe, of which about 90 percent are provided by the European members of NATO. Seventy to 80 percent of the tanks, combat aircraft and fighting ships stationed in Europe and in the Atlantic Ocean are provided by the European allies. NATO's nuclear forces are provided primarily by the United States.

NATO's policy is to safeguard peace by maintaining sufficient forces to deter aggression while being ready to negotiate reductions in forces and armaments and a more constructive relationship between East and West.

For 40 years, NATO has preserved peace in Europe for its member countries through a policy with twin pillars: maintaining sufficient military strength to deter any potential aggressor, and working through constructive East-West dialogue to prevent or ease tensions and to promote mutually advantageous relations. During the same period, more than 150 armed conflicts have raged in other parts of the world.

NATO's military forces are organized into three main commands: the Atlantic Command, Channel Command and Allied Command Europe. Most of NATO's forces are in Allied Command Europe, and the

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Air Force project paves way for night tests of NWC night attack capability projects

(Continued from Page 1)

abrupt change from daylight flying for the pilots, but not for the people in the control room. We watched the instruments and didn't know if it was night or day."

Harlan Reep and Dick Wright, the pilots, knew what time of day it was! While TV camers in the nose can be turned off for most of each remote flight, and instruments only used, the pilot's vision is essential for take off and landing, and they wanted to recover the aircraft if possible.

During the first proving flight of the modified system Wright was in the aircraft as safety pilot. Wright recalls he halfway expect-

ed Reep would make a couple of passes at the runway, in attempting to land, then decide it couldn't be done without floodlighting the

this development...is a "significant new capability at NWC"...China Lake offers the only night FSAT capability in the country.

runway.

It didn't work out that way!

Reep quickly discovered visual resolution with the intensified camera was more than adequate for this mission. It was, he noted, a relatively simple matter once the runway lights were adjusted to the right intensity and the nose taxi light of the QF-4 was modified to act as a landing light.

The two pilots said only the area between about a mile from the runway and 100 yards from the runway were really tricky.

Beyond a mile out they are still flying instruments. Inside 100 yards from the end of the runway, there is enough lighting from landing lights to judge distance from the ground and the aircraft's glide slope.

Harlan Reep also noted there is a different visual pattern in night flying; you're looking for

runway lights, not the runway itself, and you position the aircraft to land between the two parallel rows of lights.

Sorensen said the camera works well enough to give NWC this night target presentation capability in almost any kind of lighting, from full moon to a dark, moonless night.

While the actual target presentation was done with the QF-4 Phantom, NWC modified a QF-86 as part of this program as well. The Sabrejet FSAT was used in preliminary test flights of the camera system.

Haynes said the impact of this accomplishment will go beyond

this Air Force project. Three current NWC programs, the AV-8B Harrier, F/A-18 Hornet, and the Marine Corps' Light Armored Vehicle test program involve night attack capability. The Air Force project paves the way for night tests by the Navy and Marine Corps on these and other projects if needed in the future.

"This is part of our constant effort to improve service to program offices," said Jay Bornfleth, head, Engineering Support Division, Aircraft Department. "We now know we can present targets not only during the normal day hours, but at night and even without moonlight."



WHY ARE THESE PEOPLE DRESSED ALIKE?--The Second Annual Barefoot Bar Crud Tournament drew a large crowd for a rollicking Saturday afternoon in June. Locals formed into teams of five players to play the fast-paced pool table game at China Lake's Officers' Club. Photo submitted by Cdr. Dottie Michael.

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Personnel news and notes

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 applications 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. 30-013, Interdisciplinary (General/Mechanical/Electrical/Electronic/Aerospace Engineer/Mathematician/Computer Scientist/Operations Research Analyst/Physicist), DP-801/830/850/855/861/1520/1550/1515/1310-1/2/3, Code 3031 - This position is that of an analyst in the Operations Branch of the Weapons and Tactics Analysis Center (WEPTAC) Program in the Weapons Planning Group. WEPTAC is a computer based, interactive wargaming facility providing man-in-the-loop simulations to evaluate the effectiveness and utility of weapons, weapons systems, platforms, sensors and tactics. The incumbent's technical responsibilities include working with project personnel and sponsors in the definition, prosecution, analysis, reporting and briefing the results of wargaming projects. Send SF-171 to Bob Olson or Linda Andrews at NSC extension 2419/2793.

No. 30-043, Interdisciplinary (General/Mechanical/Electrical/Electronic/Aerospace/Industrial Engineer/Physicist/Mathematician), DP-801/830/850/855/861/896/1310/1520-3, Code 36A1 - This position is located in the Sidewinder Production Office. The incumbent will act as project manager specializing in the Sidewinder Guidance Control System (GCS). The incumbent will be involved in coordinating the efforts of the two GCS contractors. This includes, but is not limited to, the coordinating of ECP's; communication with contractors regarding interpretation of government drawings, specifications, test procedures, and the review and reporting to NAVAIR/Contractor on the adequacy of production program plans, vendor qualification test plans, reliability program plans, lot acceptance reports, and other data specified in the respective contracts. The incumbent will coordinate the efforts of NWC support disciplines (i.e., product assurance, design/technical, etc.). Please submit a current SF-171 to Gil Cornell, Code 36A1 NWC ext. 3784. This ad will close on 8-4-89.

No. 39-053, Interdisciplinary (General/Mechanical/Electrical/Electronics Engineer/Physicist), DP-801/830/850/855/1310-2/3, Code 3933 - This position is located in the RF Fuze Branch, Fuze Sensor Systems Division, Intercept Weapons Department. The incumbent will act as the Project Leader for various Target Detecting Devices (TDDs) programs. The incumbent will plan, coordinate, and direct the effort of junior engineers. As Project Leader, the incumbent will be responsible for design, development, testing, and technical monitoring support for these TDD programs. The incumbent will be expected to interact with technical program managers on Center, NAVAIR sponsors, and contractors. Occasional travel is required. Knowledge of RF engineering principles and design techniques is desired but not required. Ability to communicate well orally and in writing, as well as to deal effectively with all levels of personnel on Center, with

NAVAIR sponsors, and contractors is highly desirable. Promotion potential to DP-3, but not guaranteed. Please send current SF-171 to John Gustafson, Code 3933, NWC ext. 1211. Previous applicants need not reapply.

No. 39-062, Interdisciplinary (Electronics/Industrial Engineer/Physicist), DP-855/896/1310-2/3, Code 3934 - This position is located in the Standard Missile Fuze Branch 2, Fuze Sensor Systems Division, Intercept Weapons Department. The Branch's responsibilities are the design and testing of standard missile proximity fuzes in support of engineering development, transition to production and production engineering improvements. The branch is currently involved in the qualification of a second source developer and producer of Standard Missile fuzes. The incumbent will participate as a team member in this second source effort, working with senior fuzing engineers, transferring the design, alignment techniques and test experience to the new fuzing source. The incumbent will also participate in engineering design, development of components and circuit designs in support of advanced fuze systems. Work areas are broad based and best suited for engineers interested in broad engineering experiences. Areas of responsibilities include: Antennas; microwave; IF detection circuitry; analog and digital processing circuitry; power supplies; and test equipment correlation and documentation. Promotion potential to DP-3, but not guaranteed. To apply, send a current SF-171 to Walter Martin, Code 3934, NWC, Ext. 2769/6611. Previous applicants need reapply.

No. 39-064, Interdisciplinary (Electronics/Industrial Engineer/Physicist), 855/896/1310-2/3, Code 3934 - This position is located in the Standard Missile Fuze Branch 2, Fuze Sensor Systems Division, Intercept Weapons Department. The Branch's responsibilities are the design and testing of Standard Missile proximity fuzes in support of engineering development, transition to production and production engineering improvements. The incumbent will participate as a team member in the testing and evaluation of engineering designs, and circuits used in standard missile advanced fuze systems. Work areas are broad based and best suited for engineers interested in broad engineering experiences. Areas of responsibilities include: Engineering testing and evaluation (and the redesign if appropriate) of analog and digital processing circuitry, power supplies and test equipment. Promotion potential to DP-3, but not guaranteed. To apply, send a current SF-171 to Walter Martin, Code 3934, NWC, Ext. 2769/6611. Previous applicants need not reapply.

No. 39-066, Interdisciplinary (General/Mechanical/Electronic/Aerospace Engineer), DP-801/830/855/861-2/3, Code 39B8 - The incumbent serves as an engineer for the AIM/RIM-7 missile system in the Sparrow Project Office. The incumbent will practice interdisciplinary

systems engineering in support of all Sparrow variants including 7M, 7P (PIP), Vertical Launch System, and Missile Homing Improvement Program (MHIP). The initial focus of this position will be on MHIP and a general grounding on the other Sparrow variants. This position reports through the Sparrow Systems Engineer to the Sparrow Project Manager on Sparrow systems issues. **Job Relevant Criteria:** Knowledge of air-to-air missile systems, experience in air-to-air missile development, testing, and operations; ability to work through and with a matrix organization, and demonstrated communication skills. Promotion potential to DP-3, but not guaranteed. To apply, send a current SF-171 to Dave Eiband, Code 39B8, NWC, Ext. 2630.

Secretarial opportunities

This column is used to announce secretarial positions for which the duties and job relevant criteria are generally similar. Secretaries serve as the principal clerical and administrative support in the designated organization by coordinating and carrying out such activities. Secretaries perform numerous tasks which may be dissimilar. Positions at lower grades consist primarily of clerical and procedural duties and, as positions increase in grades, administrative functions become predominant. At the higher levels, secretaries apply a considerable knowledge of the organization, its objectives and lines of communication. Depending on grade level, typical secretary duties are implied by the job relevant criteria indicated below.

Applicants will be rated against four or more of the following job relevant criteria: (1) ability to perform receptionist/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/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/coordinate travel arrangements; (9) ability to maintain/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. 28-052, Secretary (Typing), DG-318-A/1/2, Codes 2834/2835 - This position provides secretarial and administrative support to the Heads of the Resource Analysis and Plans and Programs Branches and the branches personnel. Experience with Macintosh computers is desirable. Promotion potential to DG-2, but not guaranteed. Status eligibles may apply.

No. 31-065, Secretary (Typing), DG-318-3/4, Code 31 - This position provides administrative and secretarial support to the Head of the Aircraft Weapons Integration Department. Experience with the Macintosh II is desirable.

No. 38-004, Secretary (Typing), DG-318-2, Code 381 - Incumbent serves

as Division Secretary providing clerical and administrative support to the Division Head of the Physics Division and other Division/

Department staff. Incumbent participates as an active member of the Physics Division management team. Candidates must possess knowledge of Naval correspondence, domestic and foreign travel, personnel actions and procurement as well as general secretarial and administrative procedures. Candidates must demonstrate positive interpersonal skills in interaction with personnel at all levels. Experience using the Macintosh II and Microsoft Word is desirable. Promotion potential to DG-3, but not guaranteed. Status eligibles may apply. Previous applicants need not apply.

No. 38-009, Secretary (Typing), DG-318-1, Code 3851 - This position is located in the Chemistry Division. The incumbent provides secretarial and administrative support to Branches 3851 and 3858 Research Department. Incumbent must be able to use or learn the Macintosh II equipment, be familiar with Navy correspondence and be able to coordinate complex travel arrangements for both branches. Promotion potential is to the DG-2 level, but not guaranteed. Status eligibles

may apply.

No. 39-065, Secretary (Typing), DG-318-2/3, Code 393 - This position is located in the Intercept Weapons Department, Fuze Sensor Systems Division. The incumbent provides secretarial and administrative support for the Division Head and staff. Knowledge and working skill on the Macintosh II PC is desirable. Promotion potential to DG-3, but not guaranteed. Status eligibles may apply. Previous applicants need not reapply.

No. 39-067, Secretary (Typing), DG-318-2/3, Code 394 - This position is located in the Electro-Optics Guidance Division. The incumbent provides secretarial and administrative support to the Division Head and members of his staff. Incumbent must be able to use or learn to use the Macintosh II. Promotion potential to DG-3, but not guaranteed.

No. 39-061, Secretary (Typing), DG-318-1/2, Code 3924 - The incumbent provides clerical support to the Advanced Concepts Branch, Concept Development Division, Intercept Weapons Department. Experience with the Zenith PC desired but not necessary. Promotion potential DG-2. Status eligibles may apply. Previous applicants need not reapply.

Cerro Coso offers two fall Quality Assurance classes

For the first time this fall, Cerro Coso Community College will be offering classes in Quality Assurance. This is a new program being offered by the college.

During the fall semester, two courses will be offered. *Introduction to Quality Assurance* will meet on Tuesdays and Thursdays from 5 to 6:20 p.m. in Room 113 at the City Center. The instructor will be Tony Miller.

Fundamentals of Nondestructive Testing will meet on Mondays and Wednesdays from 5 to 6:20 p.m. in Room 101 at the City Center. Peter Stewart will instruct this course.

Both classes will begin during the week of Aug. 21. Students wanting more information about these classes should call the Counseling Office at Cerro Coso, 375-5001.

DIGITAL EQUIPMENT CORPORATION

Digital cordially invites all interested persons to attend a presentation on VMS License Management Facility (LMF) given by Mr. Gazanfer Namoglu, a Senior Software Engineer and Project Leader for LMF with VMS Engineering in Nashua, New Hampshire.

Date: Friday, July 28, 1989

Time: 9 a.m. or 1:30 p.m.

**Place: Carriage Inn Conference Center
901 N. China Lake Blvd.**

**Please phone (619) 446-3511
to confirm your attendance**

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Instructor: Annette Spencer
Sign-ups start July 8 - July 27

Classes Offered: July 29 - Aug. 26 Sats 10-11a.m. Beginning B (5-14 yr.)
July 29 - Aug. 26 Sats 11-12n Intermediate (C-A)
July 29 - Aug. 26 Sats 5-6p.m. Adult Beginning B
July 30 - Aug. 27 Suns 11-12n Advanced A
July 30 - Aug. 27 Suns 5-6p.m. Beginning A (5-14 yr.)
July 30 - Aug. 27 Suns 6-7p.m. Adult Beginning A

Sign up now to reserve your spot!

For more information, Call the YOUTH CENTER Today! 939-2909



Promotional opportunities

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

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

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

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

No. 00-003, Writer/Editor (Printed Media), DA-1082-2/3, Code 0033 - Incumbent serves as Associate Editor of the Rocketeer and is responsible for writing and editing material for this publication. Incumbent should require minimal supervision and is responsible for providing advice and service on all but the most complex issues; acts as Rocketeer editor on the absence of the editor and is part of the NWC public affairs team. **Job Relevant Criteria:** Knowledge of writing and editing; knowledge of print media; knowledge of photojournalism; ability to communicate orally. Knowledge of Macintosh computer operation and Quark Express software is highly desirable, but not mandatory. Promotion potential to DA-3 level if selection made at DA-1082-2 level, but not guaranteed.

No. 30-014, Security Specialist, DA-080-1/2/3, Code 306 - This position is located in the Advanced Technology Support Program of the Weapons Planning

Group, Code 306. Incumbent will provide support in various security disciplines, including: information security, physical security, operational security, personnel security and communications security. **JOB RELEVANT CRITERIA:** Ability to communicate orally; ability to communicate in writing; ability to deal effectively with people. To qualify applicants must have a recent, favorably adjudicated Special Background Investigation (completed within the last 5 years).

No. 32-038, Supervisory Interdisciplinary (General/Mechanical/Aerospace/Electrical/Electronics Engineer), DP-801/830/861/850/855-3/4, Code 32901 - This position is the Associate Head of the Fuze Safe-Arm Division in the Ordnance Systems Department. The division is responsible for research and development for rocket motor arm-firing devices, safety arming devices, contact fuzes, destructors, and warhead initiators for guided missiles and freefall

weapons. The incumbent will assist the Division Head to coordinate, supervise and manage the operations of the Division. The incumbent will be responsible for assuring that "best practices" are maintained on programs within the Division. The incumbent will be responsible for supervision of Division staff members assigned to perform program management and coordination. **Job Relevant Criteria:** Knowledge of design and development experience of ordnance components and systems; skill in presentation of technical material; knowledge of safety controls necessary for explosive ordnance operations; ability to supervise; ability to communicate well both orally and in writing; willingness to support NWC EEO policies and goals. If selection made at DP-3, promotion potential to DP-4, but not guaranteed. Incumbent may be required to serve a one-year supervisory probationary period.

No. 36-038, Supervisory Interdisciplinary (General/Safety/Mechanical/Electronics/Industrial Engineer/Physicist/Mathematician/Chemist), DP-801/803/830/855/896/1310/1320/1520-3/4, Code 3687 - This position is that of Head, System Safety Branch, Product Assurance Division, Engineering Department. The incumbent is responsible for providing system safety support for a wide range of complex weapon systems and related equipment developed or managed by the Naval Weapons Center. The duties include providing direct technical system safety support on assigned programs for establishment, coordination and implementation of Center system safety policies and procedures consistent with applicable Center, DoD, OPNAV, SPAWAR, NAVSEA, and NAVAIR requirements and policies. **Job Relevant Criteria:** Knowledge of system safety; knowledge of the acquisition process; knowledge of weapons systems development including design, test, and documentation; knowledge of supervisory practices and policies; knowledge of and a willingness to support NWC EEO program goals and objectives; ability to communicate orally and in writing. The incumbent may be required to serve a one-year supervisory probationary period. Promotion potential to DP-4 but not guaranteed. Previous applicants need not reapply.

No. 36-039, Computer Specialist, DS-334-1/2, Code 3627 - The incumbent will implement software quality assurance procedures for Tomahawk software support activity. The duties include certifying that software quality assurance procedures are correctly followed, reviewing test and tape handling procedures, reviewing software documents, providing reports and comments in written and oral form. The incumbent will participate in the nuclear certification process, perform reproduction of tapes and replicate test cases from procedures and scenarios provided by project engineers. **Job Relevant Criteria:** Knowledge of tape loading and backup procedures for VAX computers; knowledge of military specifications is desirable; knowledge of configuration control procedures; ability to follow written procedures to achieve expected test results and report discrepancies; ability to communicate orally and in writing plans, procedures, and observed results. Promotion potential DS-3.

No. 36-040, Supervisory Interdisciplinary (General/Mechanical/Electronics/Industrial Engineer), DP-801/830/855/896-2/3, Code 36212 - This position is that of Head, Seeker Development Section

located in the Missile Systems Branch, Systems Engineering Division of the Engineering Department. The Section provides technical direction for the transition from advanced development to experimental production of the Sidewinder, AIM-9R Seeker Assembly. The incumbent directs the efforts of a staff of 6-8 technicians and engineers; provides overall direction, coordination, and management of the section activities; and serves as the lead engineer for the AIM-9R Seeker production. The incumbent is responsible for defining test requirements and facilities required for Center support in investigation of seeker production problems. As a member of a team of NWC engineers and managers, the incumbent monitors and resolves technical production problems. **Job Relevant Criteria:** Knowledge of missile seeker sensors and subsystems; knowledge of engineering drawings and specifications; knowledge of and a willingness to support NWC EEO policies and goals; ability to communicate both orally and in writing; ability to present technical material. The incumbent may be required to serve a one-year supervisory probationary period. Promotion potential DP-3.

No. 36-041, Logistics Management Specialist, DS-346-1, Code 3664 - The incumbent is responsible for preparing and implementing ILS plans for DOD weapons systems/equipment. Duties include establishing logistics support criteria for system specifications, solicitation packages, contracts, and life cycle cost studies. The incumbent prepares and manages budget for cognizant programs and ensures system support during deployment and operation. **Job Relevant Criteria:** Knowledge of logistics planning techniques and methods; knowledge of logistics maintenance, support principles, and military command structure and how it relates to logistics support of tactical missile systems; ability to participate effectively as a member of a technical team; ability to communicate orally; ability to communicate in writing. Promotion potential DS-3.

No. 36-042, Supervisory Interdisciplinary (General/Mechanical/Electronics/Industrial Engineer), DP-801/830/855/896-3, Code 36211 - This position is that of Head, Weapons Support Section located in the Missile Systems Branch, Systems Engineering Division of the Engineering Department. The Section provides support for advanced development and experimental production of various weapons (including RAM and Cruise missiles) and various related support equipment. The incumbent directs the efforts of a staff of 6-8 technicians and engineers, and provides overall direction, coordination, and management of the section activities. The incumbent monitors multiple production sources and resolves technical production problems at subcontractor plants as a member of a team of NWC engineers and managers. **Job Relevant Criteria:** Knowledge of production procedures and the engineering change process; knowledge of and a willingness to support NWC EEO policies and goals; ability to communicate in writing; ability to communicate orally; ability to present technical material. The incumbent may be required to serve a one-year supervisory probationary period. Promotion potential DP-3.

No. 38-007, Administrative Officer, DA-341-1/2/3, Code 38102 - Incumbent participates as a member of the Physics Division management team and provides

administrative support to the Division and the Research Department in the areas of financial management, procurement, personnel, facilities, equipment and space (FES), safety, and security. **Job Relevant Criteria:** Knowledge of NAVWPNCEN's financial system required; knowledge of the procurement, personnel and FES procedures desirable; knowledge of Macintosh II, Excel and Word desirable; ability to deal with people at all levels on and off the Center; ability to communicate orally and in writing. Must be able to obtain a secret clearance. Status eligibles may apply. Promotion potential to DA-3, but not guaranteed.

No. 38-008, Supervisory Research Chemist/Chemical Engineer, DP-1320/893-3/4, Code 385 - This position is the Head, Chemistry Division in the Research Department. The Division specializes in basic and applied research in the chemistry of energetic materials, polymeric materials, optical and electronic materials, non-linear optical materials and instrumental analysis as applied to process diagnostics and materials characterization. The applicant must be an advocate for basic research. He/she will provide broad direction and goals in basic research as well as specific guidance in research applied to Navy needs. He/she will be responsible for long-range needs of the Division for personnel, space, facilities, etc. As the Division leader, he/she must be able to communicate with all levels of NWC management as well as sponsors outside NWC. A PhD in Chemistry/Chemical Engineering preferable; communication and leadership skills is desirable. **Job Relevant Criteria:** Knowledge of the Navy establishment; knowledge of DOD personnel policies and procedures and a willingness to support NWC EEO policies. May be required to serve a one-year supervisory probationary period. Status eligibles may apply.

No. 39-051, Interdisciplinary, (Physicist/Aerospace/Electronics/Mechanical Engineer), DP-1310/861/855/830-3/4, Code 3941 - This position is located in the Sensors and Platforms Branch, Electro-Optics Guidance Division of the Intercept Weapons Department. The incumbent will be the project engineer for the IR Mosaic Seeker project. The incumbent will lead a team of approximately 15 scientists and technicians. The task for the team is to design, fabricate, test and document an electro-optic seeker based on an infrared focal plane array camera. The project engineer is responsible for ensuring the completion of the task. **Job Relevant Criteria:** Knowledge of electro-optic guidance systems; knowledge of E-O seekers; knowledge of infrared focal plane arrays and signal processing; ability to plan and execute technical and fiscal aspects of a project; ability to lead a multidisciplinary group. Promotion potential to DP-4, but not guaranteed. Previous applicants need not reapply.

Courses on hold

Naval Postgraduate self-study courses are on hold until NPG decides to continue their self-study program or comes up with new funds around Oct. 1.

Anyone who has recently submitted a DD Form 1556 and wishes to cancel it, please call NWC ext. 2451 to do so.



1989 FELLOWS--are expected to be role models for the scientific and engineering community. This year's honorees are, l to r, bottom row, May L. Chan, Ph.D., Alexis Shlanta, Ph.D., Donald D. Paolino, and David J. White. Standing in the next row up are Floyd E. Towner, C. Douglas Lind, Ph.D., Kenneth R. Wetzel, and J. Merle Elson, Ph.D. The next row's honorees are Charles A. Johnson, Bruce M. Heydlauff, Fay A. Hoban, and David K. Andes, Ph.D. The top row trio is Carl W. Hall, Melvin H. Miles, Ph.D., and Robert L. Joy. Mike Gibeault was not present at the ceremony.

Don't call 911 from 939

A reminder from the Fire Division states that the numbers to call in case of emergency from NWC 939 prefix numbers are: NWC ext 3333 for fire or medical assistance, and NWC ext 3323 for police aid.

Although the Rocketeer ran a community service ad in last week's paper instructing readers to call 911 in case of emergency, 911 will only access emergency services from a phone with a 446 prefix.

Century-old contest focuses on sea power

The U.S. Naval Institute announces its annual Arleigh Burke Essay Contest. Formerly called the General Prize Essay Contest, this 110-year old contest has been won in the past by people such as Lieutenant Charles Belknap, USN; Lieutenant Commander R. Wainwright, USN; Lieutenant Ernest King, USN; Rear Admiral J.K. Taussig; and Representative Sam Stratton (D, NY).

Cash prizes of \$2,000, \$1,000, and \$750 and medals will be awarded to the authors

of the top three essays. The topic of the essay must relate to the mission of the U.S. Naval Institute: "The advancement of professional, literary and scientific knowledge in the naval and maritime services, and the advancement of the knowledge of sea power."

Essays must be received on or before Dec. 1 and must not exceed 4,000 words. Winning essays will be published in *Proceedings*, the monthly magazine of the U.S. Naval Institute.

For a complete list of contest rules write the Naval Institute Membership Department, Annapolis, MD 21402, or call toll-free (800) 233-USNI.

The United States Naval Institute (USNI), located in Annapolis, Maryland is the professional society for the naval services, and is an independent, self-supporting, non-profit organization. The Naval Institute is not part of the U.S. government.

USNI advances knowledge about the

naval and maritime services through the publication of a monthly magazine, *Proceedings*, the quarterly *Naval History*, the annual *Naval Review*, and more than 300 books.

The institute sponsors a series of seminars of interest to naval professionals and others in the wide audience of the Institute's membership, which includes more than 100,000 individuals from all walks of military and civilian life throughout the world.

NWC peers name 1989 China Lake Fellows

SENIOR FELLOWS--This first group of Senior Fellows was chosen for their sustained, wide-ranging and crucial contributions to NWC programs. From l to r, bottom row, are Carl Austin, Ph.D., Jean M. Bennett, Ph.D., and William Woodworth. Middle row recipients are; Joe Alex McKenzie, Lee W. Lucas, Ph.D., and Joseph A. Mosko. Standing in the top row are Arnold T. Nielsen, Russell Reed, George Banura, and W. Ray Magoorian. George A. Hayes, Ph.D., was not present for the ceremony.



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Monday	Tuesday	Wednesday	Thursday	Friday
Short Ribs	Spinach Lasagna	Chicken Piccata	BBQ Beef Ribs	Seafood Cannelloni
Oven Roast Potatoes	Egg Plant Parmesan	Peas - Pearl Onions	Cabbage - Potatoes - Bacon	Broccoli in Cheese Sauce
Glazed Carrots	Mix Sautéed Vegetables	Scallop Potato	Penne - Primavera	Fried Potatoes
Baby Shell - Primavera	Angel Hair Pomodoro	Cornette - Spinach Alfredo	Linguini - Pesto	Linguini w/dam sauce
Fettucini - Alfredo	Spaghetti - Ragù	Spaghetti - Amatriciana	Fettuccini Alito Olio	Cornette Lemon Caper
Cornette - Boloness	Wedge Cut Potatoes	Tortellini - Pomodoro		Spaghetti Pomodoro

Vincenzo's Italian Restaurant
Includes Fresh Breadsticks & Pizza, Full Salad & Soup Bar
Separate Checks Now Available
Towne Centre Plaza 375-9311



FLORIDA VISITORS--Capt. Mike Gavlak, CO, Naval Coastal Systems Center, far left, and Ted Buckley, technical director, NCSC, far right, receive a briefing from Lt. Steve Eaton, HARM project officer and Bill Leverett in the HARM Facility. The pair traveled from Panama City, FL, for their two-day overview of NWC.

NCMA members to Rap with board of advisors

On Tuesday, Jul. 25, the next meeting of the National Contract Management Association (NCMA) will take place at 5 p.m. at the Hideaway.

This month's meeting features a 'rap' session with the Board of Advisors including Mr. Carl Schaniel, Cdr. Steve Nyland and Mr. Harry Parade. Topics to be covered will include: *How does Management view NCMA?*, *How does NCMA help members advance?*, *How should Management use NCMA?*

NCMA is a professional organization for everyone who deals with government contracts. It is an organization dedicated to the professionalism and education of its members.

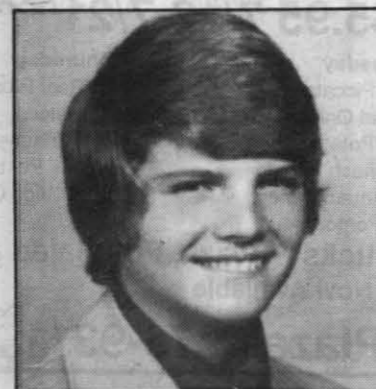
A get together starts at 5 p.m., discussion at 5:30 p.m., followed by dinner at 6:45 p.m. Dinner will include a choice of Boneless Chicken Breast or Chef Salad. Cost is \$9 for members and \$10 for non-members (price includes beverage, tax and tip). Reserva-

tions are required by noon, Jul. 24. For more information or to pre-register, call Annie Blanc, 446-3535, (Code 256).

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Some things seem to improve with age; like cheese, wine and you!

HAPPY BIRTHDAY!

Love ya,
Pete and Rose

Folk singer to perform in benefit concert on August 18 at NWC

By Lisa Blanc
Summer Intern

Glen Yarbrough, well known for his 1965 hit: "Baby the Rain Must Fall," will return to China Lake after a three year hiatus. Yarbrough played here before the Rotary Club and liked the area so much that he requested to come back. That request became reality when Yarbrough decided to perform at the Benefit Concert for the Women's Shelter Network and the Vietnam Veterans of America.

On Aug. 18 at 7:30 p.m. the country, western, and folk singer will appear at the NWC Station Theater. All proceeds will go the Women's Shelter and the Vets. Tickets are \$10 general admission and \$8 senior citizens. Tickets are available at the Women's Center Office, Contel Business Office, The Art Buffet (Heritage Inn Lobby), The Music Man, & Farris' Italian Gardens.

The Women's Shelter Network, the only domestic violence between Lancaster and Reno this side of the mountains, will benefit greatly from the concert. Unfortunately, recent legislation has cut back funding for the Center by 35%; at the same time the Center has provided a 56% service increase in the last 6 months.

Diane Gratorotti, originator of the entire project, stated that: "If we do well with the fundraiser, the money will go towards an educational program at the Center or into the operating budget."

The idea behind the education-



1965 Hit: "Baby the Rain Must Fall"

GLENN YARBROUGH

al program is to inform and teach people about domestic violence, and what is/is not acceptable in a healthy relationship. According to Gratorotti, these informed people can then become better citizens and the cycle of accepting abuse leading to abusing others will be broken. She hastened to add "this show is purely entertainment with a very good cause behind it." All members of the community are encouraged to attend the event and enjoy the show.

The Marine Aviation Detachment (MAD) will operate a concession stand before the perfor-

mance and at intermission. MAD has consistently volunteered time and effort to the shelter in the past.

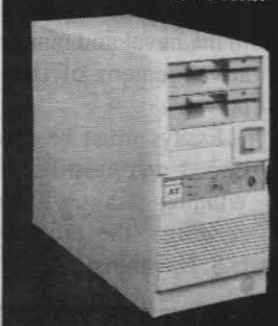
The Vietnam Veterans, who had the facilities and manpower to manage a program like this, were adamant about sharing the proceeds with the Women's Shelter, believing strongly in its efforts to break the domestic violence cycle present in one out of four marriages in America today.

For tickets to the concert or further information about the Women's Shelter Network, please phone 446-7491. The Hotline number for the Center is 375-7525.

20MHz AT \$1,895 Complete 48MB System

Special: 48MB SCSI drive & free baby tower case

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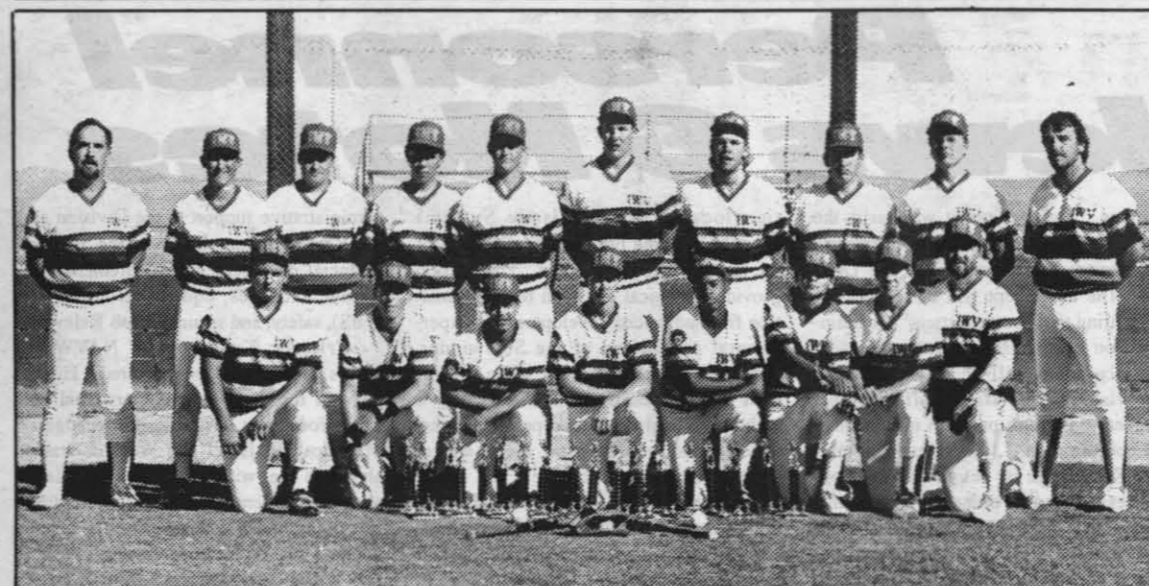


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NUMBER ONE--IWW Pony League, Colt Division All Stars display trophies they received for winning the Pony League District Level All Star Baseball Tournament. The undefeated team won the championship by beating All Star teams from Lake Los Angeles, Palmdale and Quartz Hill. Regional play began in Newhall last Wednesday. The Colt Division All Stars manager is Spud Cheever (far left); coaches are Mike Egge (far right, standing) and Mike Albers (far right, kneeling). Colt Division All Stars are, (not in order) Mark Willard, Danny Mather, Jeremy Hollingworth, Rusty Ricker, Lamont Dawson, Able Hernandez, Brian Barker, Brian Mather, Jake Albers, Derek Erthal, Brad Bays, Matt Pohl, Mike Cheever, Nick Wallace and Mike Dabbs.

Mustang/Bronco All Star tournaments continue through tomorrow at NWC

Excellent pitching by Kevin Martin and hits by the rest of the team brought IWW's Mustang All Stars one game closer to district championship. Pitching all five innings, Martin struck out seven batters, allowed only two hits and gave up eight walks in his first tournament game.

IWW's Mustang team beat Palmdale's Mustang team in the first game of the Mustang All Star District Tournament, being held on China Lake this week, 11-1. With the win, the valley's team competed last night against Lake Los Angeles, the winner of Tuesday's night's bout, for a

chance to proceed to the championship game scheduled for tomorrow at the Mustang Field on-Center, beginning at 4 p.m. Thursday's game results were not in by the *Rocketeer's* deadline.

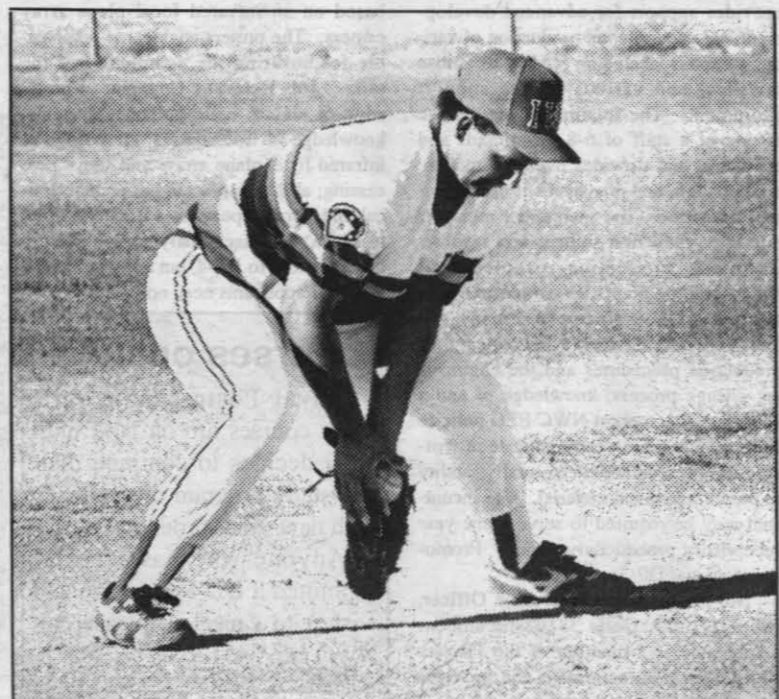
In other All Star action, the IWW's Bronco All Stars were given an upset by Palmdale's Bronco All Stars as they competed in the first game of the Bronco All Star District Tournament, being held at the Bronco Field at NWC. A flawlessly executed squeeze play gave Palmdale's Bronco All Stars their first win, and IWW's All Stars their first loss. The final score was Palm-

dale 4, IWW 3.

The IWW Broncos proceeded to offset their loss by beating Searles Valley on Wednesday night. In order to compete in the championship game being held tomorrow at 5 p.m., the IWW team must beat the loser of Thursday's night game tonight. Tonight's game begins at 7 p.m.

Tournament play continues tonight at the Mustang Field at 6 p.m. and the Bronco Field at 7 p.m. The Mustang championship game will be played tomorrow starting at 4 p.m. The Bronco championship game, also slated for tomorrow, will start at 5 p.m.

PRACTICE, PRACTICE, PRACTICE--This IWW Pony League Colt Division All Star learns practice makes perfect during one of the many practice sessions the undefeated Colt All Stars have had these past few weeks. This year's Colt All Stars were the first in IWW's history to win district competition. The All Stars and their manager and coaches left Wednesday for regional play in Newhall.



Driving range open limited hours Monday closure to affect local golfers

With the exception of the driving range, the NWC Golf Course will be closed on Mondays, announced Mark Lynch, the golf course's manager. During the days the course is closed, the driving range hours of operation will be 4 to 8:30 p.m.

The manager noted that this weekly closure would allow the course "to rest" after the heavy play on weekends, allow a breather from the extreme heat and stress on the greens and allow the grounds crew an entire day of uninterrupted maintenance work and irrigation system repair.

In addition, the grounds crew will be able to do an entire nine holes of greens maintenance in one day.

The course will be open on holidays. If the holiday falls on a Monday, the course will close on Tuesday to allow it to recover from heavy usage on the previous days.

On days the course is closed, the golf course's snack bar, the Par & Grill, will be open from 10 a.m. to 2 p.m. only.

Lynch concluded, "This one day closure will enable golfers to have a quality, green golf course for all to enjoy."

VX-5 comes in last, The Place grabs first place

With five wins, The Place triumphed in last weekend's Hitter's Softball Classic Men's 3-Pitch Softball Tournament. The key game for The Place was the championship game, in which they matched their skills against T.I. Hitter's, and won 16-3. Both teams were undefeated entering the championship game.

Standings were: The Place, five wins; T.I. Hitter's, four wins, one loss; The Renegades, three wins, two losses; TNT, two wins, three losses; and VX-5, five losses.

Even though VX-5 came in last place, they did go home with the Sportsmanship trophy.

Only 30 seconds were allowed between each half inning for the new defense to take the field, so teams really had to hustle to get on and off the field. This new strategy began to take its toll later in the tournament.

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Fishing slow in Lone Pine area's lake, streams--better elsewhere

Fishing has been slow on the lake and streams in the Lone Pine area, noted the Bishop Chamber of Commerce. Worms and salmon eggs have had the best results in the streams, while there is some bass fishing still going on at Diaz.

In the Big Pine area, fishermen have been catching lots of limits from Big Pine Creek on salmon eggs, cheese or power bait. Salmon eggs and cheese have also been doing well at Baker Creek. Crickets are the best bet on the river, but night crawlers have also been doing well. The river, however, has been high and swift, so be careful.

Lots of planters are being caught on power bait, flies, green bodied mosquitoes and black gnats in the Bishop Creek area. For lures, use Panther Martins or Mepps. Trolling on Lake Sabrina is best in the early morning hours with lures and worms. Pleasant Valley, in the gorge area, has been producing limits as well. North Lake has only been fair.

The "Rock Creek Special," a fly developed years ago for the Rock Creek Resort, has been found again and is being reproduced and made available at the resort. It seems to be a big hit on Rock Creek Lake, but green bodied mosquito in the evenings or the fly and bubble combo

also seem to be working well. Lures producing the best results from the lake are the gold super duffers. The Big Meadow campgrounds' stream has been releasing lots of browns on Panther Martins.

In the Convict Lake area, lots of rainbows and browns have been caught on power bait, worms and marshmallows. One angler hooked a 5 lb. brown on salmon eggs out of Convict Lake Creek.

Fishing is good to excellent in the Crowley Lake area. The big browns are beginning to turn up on the lake for the angler who is dedicated and works hard. Trolling on flat fish and needlefish for the 3 lbs and up has been good also. One very happy fisherman caught an 11 lb. 8 oz. brown while trolling with a repala. Worms and power bait are good for shore fishing for up to 4 lb. browns.

Lake George, in the Mammoth Lakes area, has had good shore fishing with the fly and bubble combination and dry flies with four feet of 2 lb. leader. Casting and retrieving real slow works the best. Pink power bait is also working well for the shore fishermen. Flashers and repalas or needlefish are best for trolling. At Lake Mary, shore fish with fly and bubble and mosquito flies, phoebe lures or orange power bait. Trolling is very effective with mono

line using a Thomas or Phoebe lure. Use the Panther Martin or inflated night crawlers from shore at Lake Mamie. Remember, boats are not allowed on Lake Mamie. The fly and bubble with a "Twin Lake Special" is best at Twin Lakes. Bait fishing is good on pink power bait. The San Joaquin River has been excellent on No. 00 Mepps Spinners or No. 502 Super Duffers. Crickets are also good on the river, while garden worms, salmon eggs or crickets have been good on all the streams in the Mammoth area.

In the June Lake area, fishing is good at June Lake for those using power bait, yellow or pink; or those trolling with Nickel or Frog pattern needlefish. Excellent fishing is being reported at Gull Lake on power bait or flies in late evening. Worms and marshmallow combos are knocking them dead at Silver Lake. Plants were just made on June, Gull and Silver lakes this week. Rush Creek has been best with eggs or yellow and black Panther Martin lures.

Bridgeport Lake (reservoir) has been excellent for 1-2 lb. rainbows for those either trolling or still fishing. Fishing has been reported as "good" during daytime hours and "excellent" in the evening at Virginia Lakes. The streams are in excellent condition and lots of campground sites are available.

Regulations change for Crowley Lake on Tuesday, August 1

CROWLEY LAKE--Anglers who plan to visit Crowley Lake would do well to make a note of mid-season regulation changes to take effect Tuesday, Aug. 1.

The State Department of Fish and Game wants to remind anglers they will be restricted to a two-trout daily limit, both of which must be at least 18 inches total length. Also, only artificial **Camping gear can be rented at gym annex**

Going camping? Gear issue, located in the Gym Annex, has a variety of equipment that might make your trip a bit more enjoyable.

Games, lanterns, cooking, stoves, camping trailers, boats, horse trailers, ice chests, back packs and even barbecues are available for military and DOD employees. Due to lack of washing facilities, sleeping bags are not being checked out. Tents are only being checked out to military personnel in an "as is" condition.

For more information, call NWC ext. 6542.

lures with a single barbless hook can be used.

General trout season rules that allow bait fishing and a five-fish daily limit ends Monday, July 31.

Crowley tributaries between the north end of the lake and US 395 will remain open to the take of 10 trout daily, 10 in possession with any legal bait allowed. However, the tributaries will also revert to a two-fish daily limit, both 18 inches total length or larger, and mandatory use of artificial lures with barbless hook for 31 days beginning Oct. 1.

File now for desert sage grouse hunts

Early postcard applications for three proposed desert sage grouse hunts are now being accepted by the State Department of Fish and Game. The proposed hunts are to be considered for adoption by the State Fish and Game Commission next month.

The short time span between the possible adoption of the hunts (Aug. 4) and the deadline for applications (Aug. 21) is the reason Fish and Game solicits the early applications.

Proposals call for a third year of quota grouse hunting in Lassen, Inyo and Mono counties. July surveys showed improved habitat, dispersed birds and good brood sizes in Lassen.

In the Eastern Sierra counties, biologists found bird numbers and brood sizes continue to be depressed from habitat problems due to heavy grazing pressure.

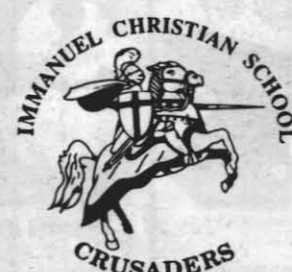
If hunts are approved, the names of 400 hunters will be drawn from the postcard applications for a Sept. 2-3 hunt in east Lassen County and 300 names for a north Mono County hunt and 250 for a south Mono County hunt, both to be Oct. 7-8.

To apply, licensed hunters must submit no more than one standard U.S. Postal Service postcard per hunt and must include the name, a mailing address, hunting licenses' numbers and preferred hunt area. Up to four hunters may apply on one card.

For Inyo and Mono, cards must be sent to the DFG at 407 West Line Street, Bishop 93514.

Cards must be received by the DFG no later than 5 p.m. on Aug. 21. Successful hunters are notified by mail.

Last year, 800 hunters applied for the 400 Lassen permits. The Inyo-Mono hunts were not filled.



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Community Events

Audition dates for the final show of the Community Light Opera and Theatre Association's (CLOTA) 1989 season (*West Side Story*) are July 31, Aug. 1, 2 and 3. Auditions begin at 6 p.m. each night and will be held at Cerro Coso Community College. A prepared song is requested of each auditioner, in addition to readings from the script and improvisations. *West Side Story's* performance dates are Nov. 3, 4, 10, 11, 17 and 18. For more information, call 375-5529.

"The Heat is On" is the message being broadcast by the Junior Professional Recreation Committee. China Lakers are invited to attend their summer rocker on Friday, July 28 at the O' Club and dance to the music of 'Kontakt.' Advance tickets of \$4 (\$5 at the door) will cover unlimited drinks, snacks and entertainment.

Reserve your hot spot by purchasing a ticket from Mark Lambert, NWC ext. 1130; Mike Coe, NWC ext. 1492; Alison Soderberg, NWC ext. 3383; or from the Professional Recruitment office at NWC ext. 3371.

Musicians needed for ceremony

Volunteer musicians are still needed by the Ridgecrest Community Band to perform during the Naval Weapons Center change of command on Monday August 7.

Stan Ricker, conductor for the band said volunteers who play any band instrument (brass, woodwind or percussion) are welcome and needed. Instruments can be provided for musicians who do not have their own.

"We've had a great response so far--about 38 musicians have volunteered," said Ricker. "We'd like to round the group out to 45 players."

Practice sessions will be held on July 25, 26, and 27 and Aug. 1, 2 and 3 at 7 p.m. in the Center Theatre.

Anyone interested in volunteering is asked to call Ricker at NWC ext. 3508 or 2137.



	Max	Min	Gusts
Thurs.	106	65	16 knots
Fri.	108	67	26 knots
Sat.	104	66	31 knots
Sun.	104	61	27 knots
Mon.	107	60	19 knots
Tues.	111	63	15 knots
Wed.	113	74	20 knots

Maturango Museum to conduct formal training for new docents in September

This fall, the Maturango Museum will conduct a formal training program for new docents (teachers). Training, which is offered only at two-year intervals, will commence with an orientation meeting from 9 to 11:30 a.m. on Tuesday, Sept. 5, at the Maturango Museum.

Docents are volunteer teachers for the museum. They provide both general tours of the museum and its displays, and an outreach program at schools or local meeting places.

The Docent Training Program offers a unique opportunity to learn more about this fascinating area in which we live by presenting a variety of subjects for study: INDIANS--The Panamint Shoshone, survival, crafts and basketry demonstration;

DESERT ALIVE--what kinds of animals and plants survive in this environment and how; PETROGLYPHS--the rock drawings of the Coso Range; HISTORY OF THE INDIAN WELLS VALLEY and much, much more.

The only qualification neces-

sary to become a Docent with the Maturango Museum is a willingness to share excitement and knowledge with others. Please contact Julie Troutman at 446-7023, or call the museum, weekdays, between 10 a.m. and 5 p.m. at 375-6900.

Advanced Digital Group

Inc. is very pleased to be given the opportunity to be on base Aug. 8, at the Sea Farer (EM Club), from 10:00 a.m. to 3:00 p.m. Our objective is to display the Instrumentation and Systems we feel can provide very cost effective solutions for your needs.

A brief summary of the companies we will represent is as follows:

AMPRO CORPORATION - Complete PC/AT or 386 systems on a foot print of a floppy disk. Clock rates up to 20MHz with 4MByte RAM. Serial, Parallel, VGA and more.

ARIUM CORPORATION - Logic Analyzer up to 16 CHIs @ 400MHz or 80 CHIs @ 100 MHz capture mode, with multi simultaneous 16 or 32 bit microprocessor disassembler pods.

BYTEK CORPORATION - Universal PROM/Bi-Polar/PLD programmer, stand alone, or PC compatible, Gang unit. All in one for about 35% less than Data I/O.

GENERAL MICRO SYSTEMS - VME 68010/020/030. Up to 33MHz clock, 4MByte RAM, Mezzanine I/O, VSB, SCSI and more.

MICROCOSM CORPORATION - 286/376/386SX/386 Emulators, 0 waitstates, running up to 33MHz. 512K add on overlay memory. PC compatible.

ORCAD CORPORATION - The hottest Schematic capture package on the market today. PC based software, along with all it's support packages: VST-timing simulator; PCB-board layout; PLD-jedec design tools.

SBE CORPORATION - VME and Multi-Bus 68010/20, SBC on Multi-Bus form factor, RAM, I/O and more. VME System T1 speeds for Communication, Ethernet and 68030 CPU SBC systems. VME custom gate array and custom interface chips.

TRACEWELL CORPORATION - DIN enclosures, 3U to 9U. Design complete system, power supplies, back planes, and fan assemblies. Custom designs welcomed.

WINSYSTEMS CORPORATION - An Ms/DOS 10 to 20MHz AT on the STD Bus form factor. Completely compatible with all existing STD Bus I/O cards on the market today. Running Phoenix BIOS, 100% compatible with all existing software. Only NOW it is industrialized.

Also attending: **DDC-I, Inc.** - presenting a Real-Time ada compiler for the 80X86 focusing on Real-Time embedded systems, and featuring a high performance, configurable Ada Run-Time System. DDC-I's Ada Compiler Systems (DACS tm) include a complete Ada Programming Support Environment, and are currently used in a number of prominent DOD programs.

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Ice cream social enjoyable for all

With an approximate 450 people attending the 38th annual Ice Cream Social, the Protestant Women of the All Faith Chapel raised over \$1,000. The money raised will benefit the PWOC's mission projects such as IWV Association for Retarded Citizens, the Women's Shelter in Ridgecrest, Bakersfield Rescue Mission, Kern County Teen Challenge, The Ridge in Corona, plus three foreign missions.

While children enjoyed the activities provided just for them, children and adults alike enjoyed performances by the Cactus Squares, a puppet show presented by Bob and Mary Haynes and music by the Dixieland Band.

On top of all the entertainment provided, attendees enjoyed delicious ice cream, cakes and pies.

As one spectator remarked, "This is a great way to spend an evening. Not only do we get good food and are entertained, but we get to spend a relaxing evening with family and friends."

Photos by
PHAN Cary Brady



CATCH A PRIZE--
(Left) Youngsters have fun "fishing" for prizes during the ice cream social.



YUMMY, YUMMY--
(Right) This little tyke looks like she is enjoying some of the delicious food served Tuesday night.



SOMETHING FOR EVERYONE--(Above) Scoops of ice cream were just one of the many deserts offered at the social. (Left) Approximately 450 people attended the 38th annual Ice Cream Social this year. Proceeds from the event benefit the Protestant Women of the All Faith Chapel's mission projects. (Below, far left) The Dixieland Band provided music at the festivities and (below) the Cactus Square dancers kick up their heels as they show their audience the proper way to have fun.

