



Commissioned Officers' Mess

Some of the delicious foods being prepared for the enjoyment of members and guests of the Commissioned Officers' Mess this weekend are Cornish game hen with wild rice and mushrooms, halibut, salmon stuffed with crab meat, lobster, crab legs, and surf 'n turf.

A menu featuring Cornish game hen is planned tonight, and the seafood entrees will be available Saturday. Dinner on both evenings will be served from 6 to 10 o'clock.

The COM management reminds everyone to make reservations early for the gala New Year's Eve party coming up on Monday, Dec. 31.

The price of \$12.50 will include dinner, a New Year's breakfast served from 1:30 to 2:30 a.m., and party favors and noisemakers for everyone. A happy hour will precede the New Year's Eve party.

The dinner will include tossed green salad, prime rib, baked potato, buttered broccoli cuts, and coffee or tea. It will be served from 7:30 to 9:30 p.m.

Dancing will be continuous from 9 o'clock until 1 a.m., and the music will be provided by the "Kings and Queens," a contemporary music group from the Los Angeles area.

Reservations can be made by calling the COM office at 446-2549. Tickets will be on sale through Dec. 22. Late reservations also will be accepted Dec. 29 and 30.

CPO Club

Bill Coy and his Blue Jeans Disco will provide the entertainment this evening at the Chief Petty Officers' Club from 9 p.m. to 1 a.m.

The CPO Club's Friday night dining room special of prime rib and Icelandic cod will be offered to members and guests from 6 to 9 o'clock.

Tomorrow night the CPO Club will play host to a country extravaganza. From 9 p.m. until 1 a.m., a local country-music group will be playing for the listening and dancing pleasure of members and guests.

Earlier in the evening, from 6 to 9 o'clock, the CPO dining staff will offer a seafood platter with lobster as the main entree on the dinner menu.

Enlisted Mess

This evening the Enlisted Mess will present, for the first time in the Indian Wells Valley, "Kloud," a rock-music group from the Los Angeles area.

Kloud will be performing for the listening and dancing pleasure of patrons from 9 o'clock until 1:30 a.m.

Surf 'n turf will be the featured item on the menu in the EM dining room from 6 to 8:30 p.m.

Plans have been made and tickets are on sale for a New Year's Eve party that will be held at the Enlisted Mess from 8:30 p.m. on Dec. 31 to 3:30 a.m. on Jan. 1.

Party favors, champagne and breakfast are included in the ticket price of \$6.50 per person.

Entertainment will be provided by Luther Davis and Company, a musical group from Bakersfield, Calif. In addition, recorded music will be played in between the live music performance and during breakfast by Bill Coy.

Tickets are being sold at military personnel work centers at China Lake, as well as at the Enlisted Mess. Additional information can be obtained from the EM by telephoning 446-6929.

AFGE meeting set Monday

The American Federation of Government Employees, Local 1781, will hold its regular monthly meeting at 7 p.m. Monday at 65-B Halsey Ave., China Lake.

Local 1781 is the exclusive representative of a unit composed of those non-supervisory civilian employees of the Police Division, Safety and Security Department, who are located at China Lake.



BENEFIT PERFORMANCE — Rehearsing for their appearance in the Ballet Arts Theatre benefit for the Spay and Neuter Program are (front row, l.-r.) Terrie Jacks, Ellen Reed, and Laurie Bonbright, and (in back row, from left) Michelle Ankeny, Stephanie Rainwater, and Christa Goetz. A varied program of ballet will be presented on Saturday, Dec. 15, at 7 p.m. in the Burroughs High School lecture center. Money collected from admission charge of \$3 for adults, \$2 for senior citizens and high school students, and \$1 for children, will be used by the Spay and Neuter Program to offer rebates for local citizens who have their pets spayed or neutered. —Photo by Ralph Halcomb

Hebrew Congregation to begin Hannukah celebration Dec. 14

Members of the NWC Hebrew Congregation will begin their annual celebration of Hanukkah, the Festival of Lights, next Friday, Dec. 14, with services conducted beginning at 7:30 p.m. by Dan Bridge, student rabbi, in the East Wing of the All Faith Chapel.

Hanukkah, which begins at sundown on Dec. 14, celebrates the first victory in the fight for religious freedom. It marks the rededication of the Temple in Jerusalem in the second century.

Antiochus, King of Syria, had defiled the Temple, turning it into a pagan sanctuary where sacrifices were offered to heathen gods and the practice of Jewish ritual was forbidden.

The Jews revolted, under the leadership of the Maccabees, and won their freedom and independence from the Syrians. To celebrate, they cleansed the Temple, rededicated it, and kindled the perpetual light.

The festival, which means dedication, continued for eight days and is still a week-long celebration. Today, Jewish people light candles to observe the rededication of the Temple. On the first night, two candles are lit, and on each succeeding night an additional candle joins the others until a total of nine candles are burning.

On Saturday morning, Dec. 15, Sabbath School students of the local Hebrew congregation will get together for a pancake (latke) lunch that will be followed by fun and games.

In addition, that same evening members

of the Indian Wells Valley Jewish Women's Club will prepare an eight-course dinner featuring roast brisket of beef and potato pancakes.

The dinner, which will be served at 6:30 p.m. in the East Wing of the All Faith Chapel, is open to all local area residents at a charge of \$5 per person. Reservations may be made by calling Rose Varga (phone 446-3939) no later than Monday, Dec. 10.

EAP volunteers plan alternative happy hour party

Volunteers from the Naval Weapons Center's Employee Assistance Program (EAP) are in the midst of plans for the Center's third annual alternative happy hour party for adults.

On the agenda for this event, which will take place next Thursday, Dec. 13, from 4:45 to 6 p.m. in the Sidewinder Rm. of the Community Center, are music, games, refreshments and the serving of some unusual (non-alcoholic) drinks.

Centerites interested in attending are asked to contact Carol Corlett, an assistant in the EAP, by calling NWC Ext. 2574 no later than 4 p.m. today.

Tickets, priced at \$2.50 per person to cover the cost of refreshments, can be paid for in advance or purchased at the door. Reservations are necessary, however, in order to help those planning this party know how many people to prepare for.



CONCERN SHOWN — Signing a proclamation to declare December a safe driving month — a month when even more care than usual needs to be taken to prevent accidents because some people celebrate the holidays with an excessive use of alcohol — are (l.-r.) LaVern Smith, Vice Mayor of the City of Ridgecrest; Capt. W. B. Haff, Commander of NWC; and Gene Tackett, Kern County Supervisor for this district. Looking over their shoulders is Dorothy Carlo, administrative director of the Council on Alcohol Awareness. —Photo by Ron Allen

MOVIES section listing films: BUTCH AND SUNDANCE, CAPRICORN I, MOONRAKER, GAME OF DEATH, MAIN EVENT.

Something warm for winter makes ideal Yule gift

Santas who have not yet finished their Christmas shopping can add warmth to their holiday wishes by following some suggestions proffered by the Energy Program Office.

What better year for gifts of down comforters, quilted "snug-sacks," or attractive blankets? Warm robes feel good in the early morning chill also.

Less expensive, but just as practical would be attractive ski sweaters (or other sweaters) for the whole family.

Good stocking stuffers include stocking caps, earmuffs, mittens, and gloves. (And why not tuck a couple of pairs of woolly socks into that stocking hanging on the mantel?)

More personal gifts might include some bright red long-johns or Scandinavian fish-net thermal underwear.

A gift to the whole household would be a blanket for the hot water heater to help insulate it and keep the utility bill down. Other warmth enhancers for the household include thermal-pane windows and mylar screening; these provide extra year-round comfort because they also help keep a place cool in summer.

A heat transfer device for the fireplace can make a cozy fire as practical as it is attractive. Glass doors for your fireplace can be shut at night to minimize heat loss up the chimney.

A microwave oven uses considerably less energy to cook a meal than either gas or electric stoves (and a convection oven also uses less than either, although it does use more than microwave).

Small electric appliances such as crock pots can be energy saving as well; each appliance is labeled to show the number of watts used, and the smaller the number of watts, the lower the cost of its use.

U.S. Government Printing Office: No. 1979-446-6929

Postcard-style form with fields for From, To, and a stamp area.

Contract signed for geothermal area development

A contract clearing the way for starting work on development of the geothermal energy resource in the Coso area of the Naval Weapons Center was signed yesterday in the Western Division Office of the Naval Facilities Engineering Command (NAVFAC) in San Bruno, Calif.

The contract between the Navy and the California Energy Company, Inc., an engineering management firm with home offices in Santa Rosa, Calif., calls for the contractor to complete evaluation of the resource, develop the geothermal steam field, construct an electric power plant, and operate the plant at no capital cost to the Navy.

Under terms of the contract, title to the land, the geothermal resource, and the electricity produced will remain with the Navy. The private developer is, in effect, performing a service for the Navy in that the company is taking a Navy-owned resource and converting it to Navy-owned electricity.

Authority to begin this development was granted following approval by the Committees on Armed Services of the U.S. Senate and the House of Representatives, acting in accordance with legislation which authorizes the military departments to develop and contract for any geothermal resource within lands under their jurisdiction.

Initially, the full electric requirements of Naval Weapons Center (10 to 20 megawatts) are to be served. Later, as the geothermal energy production expands, the developer will provide up to 75 megawatts of the electric power requirements of other Naval installations in Southern California.

The developer (California Energy Company, Inc.) will recoup its investment through the sale of electricity to the Navy.

For the power load requirement of the Naval Weapons Center in the initial 10 to 20 megawatt development, the developer is to provide a firm price per kilowatt hour of electricity. The subsequent development of up to 75 megawatts will be at a negotiated

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Meeting scheduled Dec. 12 to discuss problem of exploding burro population in range areas

Ordnance is not all that is exploding on the Naval Weapons Center ranges — so is the burro population. Burro breeding patterns result in a 25 to 50 percent increase in their total number each year, with a 25 percent increase as average and the population doubling roughly each 3 1/2 years.

The problems resulting from such a population explosion and the need to manage the feral (wild, free-roaming) burros on NWC lands will be discussed at a public meeting to be held next Wednesday evening at 7 o'clock in the Burroughs High School lecture center.

The meeting will serve two purposes: it will provide the public with information about NWC's intent to manage excess populations of feral burros, and will meet the requirement under the National Environmental Policy Act to have an informational meeting before preparation of an environmental statement.

At the meeting, the public will have the opportunity to ask questions, and anyone who wishes to do so may make a statement of 5 minutes or less. Those who prefer to make written comments may send them to the Public Works Officer (Code 26309) before Jan. 12, 1980. Comments and suggestions will be incorporated in the final scope of the Environmental Statement, and anyone who requests it will receive a copy when the statement is completed.

An environmental statement is required as part of the total environmental assessment of the burro situation before a management plan can be determined. This is only the first meeting of several planned



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CONGRATULATIONS EXTENDED — Bob Hillyer (at left), NWC Technical Director, and Capt. William B. Haff, NWC Commander, jointly congratulated the latest recipients of the Michelson Laboratories Award during a luncheon held Monday at the Commissioned Officers' Mess. The recipients are (l.-r.) Dillard Bullard, Richard Mello, Gordon Greene, and Robert Vorwerk. "These men represent the finest of NWC. We can all be proud of them," Capt. Haff commented as he called for a round of applause for the award winners at the conclusion of the presentation ceremony. —Photo by Ron Allen

4 Centerites receive Michelson Lab Award

The presentation of Michelson Laboratories Awards to four Naval Weapons Center employees highlighted a luncheon held last Monday at the Commissioned Officers' Mess. The latest recipients of this award are Dillard G. Bullard, Jr., Gordon A. Green, Richard J. Mello, and Robert F. Vorwerk.

The awards, which consist of a certificate and an engraved key, were presented by Capt. William B. Haff, NWC Commander, and Bob Hillyer, Technical Director. This special award is designed to recognize outstanding individual administrative and professional excellence, or technical ex-

cellence based on singular effort in the performance of individual duties.

The Michelson Laboratories Award is complementary to the Center's highest award — the L. T. E. Thompson Award.

Bullard, who is now the associate head of the Weapons Department for Anti-Air Systems, received this award for his outstanding technical and managerial accomplishments in his present position, as well as for his work as program coordinator for the Joint Cruise Missile Program and as acting head of the Electro-Optics Division in Code 39.

In the framed certificate that ac-

companied the Michelson Laboratories Award presented to Bullard, it was noted that "he has provided the keen managerial leadership necessary for the development of cohesive, forward-looking Center programs in the anti-air warfare area."

The honoree, it was noted, shouldered a wide ranging load of technical responsibilities simultaneously with maintaining forward progress at all times. As associate department head for Anti-Air Systems, Bullard developed a coordination in NWC's Anti-Air Programs never before realized.

Two Key Roles Carried Out

At the same time, Bullard carried out two key roles on the Joint Cruise Missile Program as the Center's program coordinator and as an evaluator for the program office of contractor plans and efforts. His exceptional performance, as recognized by the Joint Cruise Missile Program Office, has been instrumental in bringing a number of important Cruise Missile tasks to NWC, including the software validation and verification.

In addition, during much of the year, Bullard served as acting head of the Electro-Optics Division — providing management and direction to its programs and personnel.

Bullard, a supervisory general engineer, came to China Lake in 1960 after receiving a bachelor of science degree in mechanical engineering from New Mexico State University at Las Cruces. Upon completion of his junior professional tour he went to work in the Engineering Department, and remained with that department for nearly 18 years until his transfer to the Weapons Department in the spring of 1978 to become the NWC Cruise Missile program manager.

Expert in Explosives

Greene was recommended for the Michelson Laboratories Award on the basis of his achievements in the advancement and application of the explosive sciences.

As head of the Explosives Technology Branch in the Ordnance Systems Department's Conventional Weapons Division, Greene is responsible for a wide variety of advanced technology concepts in the explosives sciences — ranging from full spectrum applications for Department of Defense (DoD) military purposes to Department of Energy requirements.

Because of his broad base of experience and recognition in the explosives field, Greene is frequently called on to arbitrate production capability in private industry

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WILD ONES — The burros often wander miles daily in their search for food when vegetation is not lush (for the desert), following heavy winter rains. When rainfall is too sparse and range grasses don't pop up in the spring, burros have starved. Providing feed for the burro herds during years of scarce food would increase the burro problem because the animals would lose the urge to forage for themselves.



Photo by Ron Allen

NOT FOR REAL — The flames shooting out of this boxcar house are real enough, but the fires in it and in the adjacent abandoned home last Saturday were set by fire fighters to provide realistic training in the fighting of structural fires.

Protest congregation choir to present Christmas cantata at All Faith Chapel Sun.

A Christmas cantata presented each holiday season as a gift to the community has been scheduled on Sunday during the 10 a.m. worship service at the All Faith Chapel.

The 35-year-old adult choir of the Protestant congregation, directed by Mrs. Dovie Leonard, will present John W. Peterson's "The Story of Christmas."

The composer prefaced this work with the statement: "Once again I was caught up in the never-ending charm and wonder of the Bible narrative which tells of the Savior's birth. What a story! What a joy to sing it out to a weary world which needs, as never before, to hear its message of love and hope — peace and goodwill."

Capt. Fred Whitaker, NWC senior chaplain, will give the scriptural narration, and the soloists will be Marcia Daly, Sam Haun, and Robert A. Leonard. The choir will be accompanied by Ray Blume, at the organ, and Joan Fowler, pianist.

As the text of this cantata states: "The Story of Christmas" is the story of love, the story of Jesus and His coming from heaven above. In the words of one of the songs — "Wise men still seek Him . . . wise men come to pay Him homage, and we today His

praises still repeat." "We invite you to join us in worshipping Christ and remembering the true meaning of Christmas," Mrs. Leonard said.

Autovon prefix for NWC will be changed in Jan.

Effective in late January, the Autovon prefix for the Naval Weapons Center will be changed from 245 to 437. This change was directed by the Defense Communications Agency, Washington, D.C., in coordination with the Commander, Naval Telecommunications Command.

The change was brought about by a requirement for a sequential three-number series at another command. While it may cause some inconvenience, it should be only minor in nature.

The exact cutover date will be announced prior to the time that it is to go into effect. Anyone having questions on this matter is asked to call the telephone office at NWC Ext. 3451.

The Rocketeer

Official Weekly Publication Naval Weapons Center China Lake, California. Captain W. B. Haff, NWC Commander, R. M. Hillier, Technical Director, Bernard F. Connolly, Acting Head, Technical Information Department, Don R. Yockey, Editor, Mickey Strang, Associate Editor, Beverly Becksvort, Editorial Assistant, Ron Allen, Staff Photographer.

NAVAL WEAPONS CENTER CHINA LAKE, CALIFORNIA. DEADLINES: News Stories Tuesday, 4:30 p.m.; Photographs Tuesday, 11:30 a.m. The Rocketeer receives American Forces Press Service material. All are Official U. S. Navy photos unless otherwise identified. Printed weekly with appropriated funds by a commercial firm in compliance with NPP-R P-35, revised January 1974. Office at Nimitz and Lauritsen. Information published in the Rocketeer does not necessarily reflect the official views of the Department of Defense. Information in The Rocketeer is authorized for public release by the Office of the Commander, Code 003. Phone 3354.3353

Promotional opportunities

Unless otherwise specified in the ad, applications for positions listed in this column will be accepted from current NWC employees and should be filed with the person named in the ad. All others desiring employment with the Naval Weapons Center may contact the Employment-Wage and Classification Division, Code 092, Ext. 2069. Ads will run for one week and will close at 4:30 p.m. on the Friday following their appearance in this column, unless a later date is specified in the ad. Employees whose work history has not been brought up to date within the last six months are encouraged to file a Form 171 or 172 in their personnel jacket. Information concerning the Merit Promotion Program and the evaluation methods used in these promotional opportunities may be obtained from your Personnel Management Advisor (Code 996 or 997). The promotional opportunities in the Promotional Opportunities column does not preclude the use of alternate recruiting sources in filling these positions. As part of the rating process, a supervisory appraisal will be sent to the current supervisor and the most recent previous supervisor of those applicants rated as basically qualified. The Naval Weapons Center is an equal opportunity employer and selection shall be made without discrimination for any nonmerit reason. The minimum qualification requirements for all GS positions are defined in CSC Handbook X-118, while those for all WG, WL and WS positions are defined in CSC Handbook X-118C.

Interdisciplinary, GS-855/830/1310-7/9/11/12, PD No. 7806006, Code 0631 — This position is located in the Air Projects Office, Test and Evaluation Directorate. The Air Projects Office is responsible for technical planning, management, administration and coordination of all flight test programs conducted at NWC. The incumbent will be responsible for the design, preparation and accomplishment of tests involving airborne systems, devices and equipment of significant complexity. On completion of a test, the incumbent will work with support personnel in preparing the data package. This involves coordinating and reviewing the work of others. The incumbent will also assess effectiveness of current and proposed air test concepts. Job Relevant Criteria: Ability to plan, monitor, and evaluate tests of considerable complexity; knowledge of data analysis techniques; knowledge of ordnance safety procedures.

Aerospace Engineering Technician, GS-802-5/7, PD No. 7846330N, Code 4411 — As a member of the Engineering Investigation Branch of the Parachute Systems Department, the incumbent will provide technical documentation, support for the entire department. This will entail preparing and maintaining drawings for production equipment, experimental devices and test equipment as part of design disclosure documentation. Incumbent will review formal documentation and drawings developed by contractor support personnel and also perform occasional on-site investigations and failure analysis to identify remedial design actions. Promotion potential to GS-9. Job Relevant Criteria: Knowledge of documentation (drawing) procedures including dimensioning, tolerancing and format; ability to work effectively in a team situation. Status eligibles will be considered.

Aerospace Engineer, GS-861-9/11, Mechanical Engineer, GS-830-9/11, Physicist, GS-1310-9/11, PD No. 7846402N, Code 4412 — Ad closes 12-21-79. These positions are located in the Product Support Branch of the Parachute Engineering Division, Parachute Systems Department. The incumbent works closely with the Fleet to investigate aircraft accidents, in-service deficiencies, and the operational integrity of aircrew escape systems, parachutes, aircraft deceleration parachutes, drogue parachutes and support equipment in order to correct problems encountered and/or to improve the in-service life cycle of these systems. Job Relevant Criteria: Knowledge of Integrated Logistic Support concepts; knowledge of basic maintenance policy and procedures; ability to express self well in writing and orally.

Interdisciplinary Position, Aerospace Engineer, GS-861-9/11/12, Mechanical Engineer, GS-861-9/11/12, Physicist, GS-1310-9/11/12, PD No. 7846420, Code 4411 — (12 vacancies) This position is located in the Engineering Investigations Branch, Parachute Department. Duties of the position are to provide project engineering support in the design, development, test and evaluation of aerial escape, recovery and delivery systems. Job Relevant Criteria: Education and experience including theory and techniques, dynamics, aerodynamics, aeronautical engineering, instrumentation and systems analysis; ability to prepare technical reports; ability to orally present data effectively; ability to deal with contractor representatives. Status eligibles will be considered.

Aerospace Engineer, GS-861-9/11/12, Mechanical Engineer, GS-830-9/11/12, PD No. 7846037E, Code 4412 — This position is located in the Product Support Branch of the Parachute Systems Department. The incumbent performs maintenance engineering functions on parachutes and other aerodynamic stabilization and deceleration systems. The incumbent conducts technical investigations into equipment failure/deficiencies reported during service use and takes corrective action required to improve system maintainability and reliability. Job Relevant Criteria: Knowledge of integrated logistics support concepts; ability to communicate effectively both orally and in writing; ability to organize assignments in such a way that essential features of problems are readily identified and resolved; knowledge of maintenance policies and procedures; ability to work effectively with all levels of personnel. Status eligibles will be considered.

Engineering Technician, GS-802-7/8, PD No. 7846403N, Code 4412 — Ad closes 12-21-79. This position is located in the Product Support Branch of the Parachute Engineering Division. Incumbent reviews service deficiency reports to isolate, identify and resolve problems pertaining to in-service parachute systems. Incumbent conducts continuous maintenance engineering investigations utilizing technical deficiency service data generated by the 3M system, from QDRs, from URs, from aircraft accident reports, etc. Is responsible for managing and monitoring the automated program for storage and retrieval of 3M data. Job Relevant Criteria: Knowledge of aircrew survival equipment and/or parachute systems; knowledge of the elements of aircraft/aircrew inspection, overhaul, maintenance and repair; ability to communicate effectively both orally and in writing; ability to deal effectively with all levels of personnel on Center, at other DOD activities, and with contractors. Status eligibles will be considered.

Aerospace Engineer, GS-861-9/11/12, Mechanical Engineer, GS-830-9/11/12, PD No. 7846411, Code 4422 — Ad closes 12-21-79. This position is located in the Test Support Branch, Test Engineering Division, Parachute Systems Department. The incumbent is the staff engineer responsible for providing technical engineering support to the program. The incumbent provides test program planning and development in area of test vehicle designs and/or modification; assists in obtaining flight clearance for testing of various vehicles; analyzes engineering test data for determination of significant dynamic performance characteristics. Job Relevant Criteria: Knowledge of aircraft, missile or test vehicle design; knowledge of aerospace aircraft structures and store systems; ability to communicate with all levels of technical personnel. Status eligibles will be considered.

Electronic Technician, GS-856-7/8/9/10/11, PD No. 7846444N, Code 4422 — Ad closes 12-21-79. Subject position is located in the Test Support Branch, Test Engineering

Division, Parachute System Department. Subject position provides technical support to the Telemetry Section involving design, development, modification fabrication of airborne and ground instrumentation equipment. Incumbent writes procedures for equipment use, evaluates work in process and advises on technical aspects of the assigned work. Incumbent is required to fly in multi-engine military aircraft when projects require in-flight rigging of jumpers, dummies, weight platforms, etc. Job Relevant Criteria: Knowledge of telemetry, telemetered data acquisition and processing techniques; knowledge of the theory of operations, construction and calibration of transducers; ability to interpret and utilize blueprints, schematics, specification and other technical documentation; ability to communicate effectively both orally and in writing. Applicants at the GS-7 and GS-8 level will be rated on knowledge of principles and theory of electronics instead of the first criteria above. All applicants are requested to submit supplemental statement addressing proficiency as measured by the above Job Relevant Criteria. Applications from status eligibles will be considered.

Electronics Engineer, GS-855-9/11/12, PD No. 7846012E, Code 4422 — This position is located in the Test Support Branch of the Test Engineering Division, Parachute Systems Department. The incumbent designs, develops, tests and evaluates electronic systems used in the testing of parachutes and other deceleration systems. The incumbent must also arrange for in-house or off-center acquisition of the equipment, oversees its installation and evaluates it in the test situation. Job Relevant Criteria: Ability to communicate effectively both orally and in writing; knowledge of electronic tracking systems and telemetry instrumentation; knowledge of testing and evaluation methods/procedures used at Naval Weapons Center. Status eligibles will be considered.

File applications for the above with Bonnie Owens, Bldg. 34, Rm. 204, Ph. 2577. Lead Mail & File Clerk, GS-305-6, PD No. 7808009N, Code 4422 — This position is located in the Mail, Files and Records Branch, Management Division, Office of Finance and Management. The incumbent is a lead clerk and acts as branch head in the branch head's absence. Responsibilities include the direction of the processing of incoming and outgoing mail; determining the routing aspects of complex items; undertaking and solving special or difficult research problems and training new employees. Job Relevant Criteria: Ability to read; ability to comprehend a variety of documents to be identified, categorized and distributed; ability to plan and organize work and establish priorities; ability to meet and deal effectively with others. File applications for the above with Terry George, Bldg. 34, Rm. 204, Ph. 3118.

Contract Administrator, GS-1102-11/12, PD No. 7825018, Code 2521 — This position is located in the Procurement Management Branch, Advancement Division, Supply Department. The incumbent is responsible for controlling and monitoring contractor performance. Duties include: contract changes applicable to requirements; contract modification, establishment and monitoring of suspense dates; follow-ups on delayed deliveries, processing score changes; disposition of residual inventory; transfer of property between contracts. Job Relevant Criteria: Knowledge of Government Procurement and Contractual Practices and Policies. Experience in procurement of

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DIVINE SERVICES

Table listing religious services: PROTESTANT (Sunday Worship Service 1000, Sunday School—All Ages 0830, Sunday School Classes are held in Chapel Annexes 1, 2, 4, (Dorms 5, 6, 8) located opposite the former Center Restaurant. Communion Service first Sunday of the Month.), ECUMENICAL (Wednesday Noon Bible Study 1130, Thursday Men's Prayer Breakfast 0630), ROMAN CATHOLIC MASS (Sunday 0830-1130, Nursery, Chapel Annex 1 0815-1245, Daily except Saturday, 1135, Blessed Sacrament Chapel), CONFESSIONS (Daily 1115 to 1130, Sunday 0800 to 0825), RELIGIOUS EDUCATION CLASSES (Sunday Pre-school thru 11th grade 1000, Above classes are held in the Chapel Annexes across from the former Center Restaurant. Sunday afternoon 12th grade 1630, As announced "In Home" Discussion Groups and Youth Rallies), JEWISH SERVICES (East Wing—All Faith Chapel, Sabbath Services every Friday 1930), UNITARIANS (Chapel Annex 95, Sunday Services—(Sept. May) 1930)



Photo by Jerry Boylan

TROPHY WINNERS — First and second place winners in last weekend's men's racketsball tournament were (l.-r.) Les Bazemore, Ron Derr, Tim Jenkins, and Mike Stoner. Bazemore and Derr were the winner and runner-up, respectively, in the open division, while Jenkins and Stoner were 1-2 in the intermediate division.

Men's racketsball tourney results reported

Les Bazemore and Tim Jenkins garnered first place trophies for their efforts in the men's racketsball tournament held last Friday, Saturday and Sunday on the Center's racketsball courts.

Ron Derr battled through the consolation bracket into the championship round of the open division of the tourney and forced a two-match showdown with Les Bazemore, the eventual winner. Derr defeated Bazemore 14-21, 21-19, and 11-7 in their semi-final match, but in the title-decider was defeated by Bazemore 21-5 and 21-12.

There were 11 entries in the open division of the tourney. Derr placed second and Craig Rae finished in third place.

In the battle for first place in the intermediate division, Jenkins, the winner, was put to the test by Mike Stoner.

An earlier defeat in the double elimination tourney also made it necessary

Youth soccer. . .

(Continued from Page 6) of 5 wins, a loss and 2 ties. In games played last Saturday, the Fury and Earthquakes posted 3-0 shutouts over the Express and Sockers, respectively, while the Rowdies won their first match of the season by a score of 1-0 over the Chiefs.

Players for the Fury had the upper hand throughout in their 3-0 win over the Express. Goals were scored by Armando Valdevea and Paul Ashton, with assists credited to Bobby Puckett and J. J. Jones.

The Earthquakes used good ball control and teamwork to set up their 3 goals, while helping the Sockers scoreless. Jeremy Osborn scored twice thanks to assists from Jacob Albers and Matt Mann. Albers also got in on the scoring with a single goal for the Earthquakes.

An unassisted goal by Brian Mather was the only score in the Rowdies' 1-0 win over the Chiefs in another Pacific Division game. In posting their first win of the season, the Rowdies were led on offense by Chris Mills and on defense by Jeff Hannon.

Games slated tomorrow at Schoffel Field are Sockers vs. Fury, 9:30 a.m.; Rowdies vs. Earthquakes, 10:30 a.m.; and Express vs. Chiefs, 11:30 a.m.

In addition, six games are on tap at Davidove Field. The opposing teams, and the time of their games, are Rogues vs. Strikers, 9 a.m.; Lancers vs. Timbers, 10 a.m.; Hurricane vs. Sting, 11 a.m.; Blizzard vs. Drillers, 12 noon; Surf vs. Kicks, 1 p.m.; and Whitecaps vs. Sounders, 2:30 p.m.

League play. . .

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shared by Bruce Hird of the Gas Bags and Ronny Cayanan, of Brown Sugar, who had 11 points each.

In the only other Division C tilt, the Gas Bags erupted for a 53-18 win over Fat, and the Comarco Chickenhawks handed a 28-14 loss to Fat.

Triservice Secure Telemetry Steering gp. slates meeting Wed., Thurs., at China Lake

The fourth meeting of the Joint Service Secure Telemetry Steering Committee will be convened in Conference Rm. 2 of Lauritsen Laboratory on Wednesday and Thursday, Dec. 12 and 13, starting at 8 a.m. both days.

The first session of the triservice meeting will be open to NWC personnel holding a Secret clearance who are users of secure telemetry; other sessions are working sessions for committee members and representatives only. Those who are planning to attend are asked to telephone Gary Davis, head of the NWC Telemetry Division, at NWC Ext. 3227.

The secure telemetry capability development program was initiated by a memorandum of agreement signed by all three branches of the military services, designating the Navy as lead service for the development, test and evaluation of encryptor and receiver/maintenance equipment for telemetry applications.

Inter-service coordination and decisions on day-to-day joint service test efforts are accomplished through the steering committee, which is made up of a designated representative from each military service. A representative of the National Security Agency serves as an advisor to the committee.

Jerry Reed, associate head of the NWC Range Department, serves as chairman, and Gary Davis, as executive secretary, for the committee.

They will open the first session of the meetings to be held next week, followed by a presentation made by John Shearer, Secure Telemetry Program Manager for China Lake. The major technical presentation will

be made by Jack Brown, head of the Telemetry Technology Branch in the Telemetry Division, who serves as Secure Telemetry project engineer.

Other committee members planning to attend the sessions are Charles E. Wright from Hanscom Air Force Base, Maine; Richard Sparks, U.S. Army Test and Evaluation Command, Aberdeen Proving Ground, Md.; and Steve Tuss, National Security Agency, Fort George Meade, Md. Other triservice personnel also are expected to attend the committee meetings.

Hobby classes offer last opportunity to make holiday gifts

Registration is now being taken at the Recreation Coordination Office, located next door to the Center gym, for Christmas handicraft and wood working classes. All classes will be held at the Community Center. There is a \$1 fee for the craft classes and a charge of \$2.50 for each of the wood working classes. The schedule for the classes is as follows:

Handicraft classes -- Christmas stockings, Dec. 18, and Little Woolies, Dec. 20, both from 3:30 to 5 p.m.; and four-footed animals, Dec. 20, 3-5 p.m.

Wood working classes -- Three legged stool, Dec. 17; coat rack, Dec. 19; and hinged box, Dec. 21. All of these classes will be held from 3 to 5 p.m.

The registration deadline for each class is three days prior to its starting date. Additional information can be obtained by calling NWC Ext. 2010.

Promotional Opportunities

(Continued from Page 2)

technical equipment, systems and services; knowledge of current business practices including business law and accounting; ability to communicate effectively, orally and in writing, with all levels of personnel both on and off Center.

File applications for the above with Susie Cross, Bldg. 34, Rm. 210, Ph. 2371. Construction Representative, GS-809-9, PD No. 7826057, Code 242 — This is a temporary position not to exceed six months. This position is located in the Contracts Division, Public Works Department. The incumbent assigned under the cognizance of the WESTDIVNAVAFAC supervisor, Construction representative and representing the Navy, performs surveillance and inspection work on construction contracts between the Navy and private individuals, corporations or partnerships or other contracts subject to administration by NAVFAC. The incumbent reviews project plans and specifications prior to contract advertisement, attends prebid and preconstruction conferences to discuss principal construction features and requirements; coordinates construction operations with contractors, station personnel and Public Works Officer. The incumbent observes and investigates construction at all stages. Job Relevant Criteria: Knowledge of construction practices and methods; knowledge of contract administration; knowledge of construction management; ability to deal effectively with a variety of personnel.

File applications for the above with Lucy Lambert, Bldg. 34, Rm. 212, Ph. 2032. Library Aid, GS-1411-4, PD No. 475001N, Code 3434 — This position is located in the Descriptive Cataloging Branch, Library Division, Technical Information Department. The incumbent is trained to perform descriptive cataloging of technical reports (including serials and monographs) and books. Other duties include filing catalog cards and bibliographic maintenance of publications and records. Job Relevant Criteria: Ability to learn descriptive cataloging practices; ability to work with accuracy; ability to learn library filing procedures; ability to type; knowledge of English grammar. Promotion potential to GS-6. Promotion not guaranteed.

Visual Information Specialist (Presentations), GS-1084-9/11, PD No. 7924020E, Code 3461 — This position is located in Field Service Branch No. 1, Field Service Division, Technical Information Department. Incumbent plans and develops layouts, sketches and final artwork for complex, technical briefings and presentations. Other duties include brochure preparation and illustration of technical publications. Job Relevant Criteria: Skill in oral communications; skill in illustrating abstract technical concepts; skill in designing and creating art work; knowledge of publication art and brochure preparation. Applications from status eligibles will be accepted.

Technical Publications Writer-Editor (P&E), GS-1083-11 PD No. 7924033E, Code 3463 — This position is located in the Field Services Branch No. 3 of the Field Service Division, Technical Information Department. The incumbent writes original material and edits technical reports and open literature manuscripts pertaining to electronic warfare. Job Relevant Criteria: Knowledge of electronic warfare subjects; knowledge of publishing and printing techniques; knowledge of publishing and printing regulations; skill in interpersonal relations.

File applications for the above with Linda Bego, Bldg. 34, Rm. 208, Ph. 3118. Mail and File Clerk, GS-305-4, PD No. 7935027N, Code 3553 — Position is located in the Land Threat Evaluation Development Branch, EWTFES Division, Electronic Warfare Department. Position function is document control of classified material, drawings,

sketches and technical manuals that relate to the operation and maintenance of systems at Echo Range. The material consists of secret, confidential, unclassified, master prints and key word of content (KWOC) listing. Job Relevant Criteria — Working knowledge of NWC and DOD instructions relating to the control, downgrading and dissemination of classified material; knowledge of standard filing procedures; demonstrated ability to maintain accurate records; ability to operate keypunch machine, blue-line machine and typewriter.

File applications for the above with Janet Thomas, Bldg. 34, Rm. 204, Ph. 2577.

Secretary (Typing), GS-318-4, PD No. 7924318N, Code 3422 — This position is located in the Systems Electronics Branch, Systems Engineering Division, Engineering Department. Incumbent performs a variety of secretarial/ clerical duties in support of the branch head and other branch personnel including preparing correspondence, typing, maintaining records and files, obtaining supplies and support services, scheduling appointments, and acting as receptionist. Job Relevant Criteria: Knowledge of rules and procedures associated with correspondence preparation and records and files maintenance; ability to type (a qualified typist is required); ability to maintain effective working relationships with supervisor and co-workers; ability to meet and deal effectively with personnel from outside the branch in performance of receptionist duties; knowledge of spelling, punctuation, and syntax sufficient to identify and correct grammatical errors.

Secretary (Typing), GS-318-5, PD No. 7929127N, Code 395 — This position is in the RF Division, Weapons Dept. The incumbent provides secretarial support to the head, RF Division, and division staff. The incumbent processes/ screens mail, phone calls, and visitors; maintains files; reviews correspondence for correctness; conformance; prepares timecards, travel orders and itineraries, purchase requests, etc.; types division correspondence reports, etc.; and provides assistance to other clerical personnel in the division. Job Relevant Criteria: Must be a proficient typist; thorough knowledge of Center/ Navy clerical procedures; ability to work well with others and to organize clerical tasks; thorough knowledge of grammar, spelling, format etc.

Electronics Engineer, GS-855-9/11/12, PD No. 7939128, Code 2952 — This position is in the RF Sensors Branch, RF Division, Weapons Department. The incumbent will act as branch point of contact for the digital aspects of anti-air guidance systems. Duties include planning, design, development, test, evaluation, and consultation in microcomputer-based guidance processors. Analysis of technical tradeoffs, identification of critical problems and initiating hardware solutions, and investigation of data-base guidance system organizations are typical tasks. Job Relevant Criteria: Technical background in sensors, communication theory, and RF guidance systems; practical experience with radar systems or digital design; knowledge of microcomputers and computer programming.

File applications for the above with Kitty Berry, Bldg. 34, Rm. 204, Ph. 2722. Secretary (Typing), GS-318-4, PD No. 7932084, Code 3207 — (This is a part-time position not to exceed 6 hrs. a day) The position is located in the Program Management Office, Ordnance Systems Department. Incumbent types, files, reviews and routes incoming correspondence, receives visitors and phone calls and directs them appropriately; prepares time cards, purchase orders and other documents, and prepares travel orders and itineraries. Job Relevant Criteria: Ability to type quickly and accurately; ability to deal tactfully with a wide variety of people; knowledge of standard Navy filing procedures; knowledge of grammar, punctuation and spelling.

File applications for the above with Mary Morrison, Bldg. 34, Rm. 210, Ph. 3392.



BHS varsity cagers score decisive win in season opener

Burroughs High School's varsity basketball team opened its 1978-79 season with a convincing 78-57 win over the Bakersfield High School Drillers in a game played Tuesday night in Bakersfield.

Despite giving up the home court advantage to the Drillers, the Burros were able to build up an 8 or 9 point lead throughout the first half as they went in front 21-16 at the end of the first period.

In the second 8 min. of action, the BHS varsity cagers rattled the hoop for 24 points and left the floor at half time with a 13 point edge of 45-32.

The scoring tempo tapered off some in the second half when the Burros netted 33 points while holding the Drillers to 25. Two factors had a bearing on this, Coach Larry Bird reported.

Mike Wirtz, leading scorer for the Burros, ran into foul trouble in the third period and was benched for a time. Also, Coach Bird noted, the Drillers' scoring output dwindled as the host team ran out of gas in the latter stages of the game.

The Burros, led by Wirtz with 16, had five players in the double-figure scoring column. Others were Steve Motte (15), Richi Drake (12), and Dalton Heyward, Curtis Edmonson and Dan Drake (10 points each).

The game's high point man was Randy Miller, of Bakersfield High, who tallied 19. Two players for the Drillers — Oscar Jennings and Alton Henry — chipped in 10 points each.

The BHS varsity hoopsters traveled to San Luis Obispo to compete in a tournament that started yesterday and will end tomorrow.

Results reported of first full week of play in China Lake Intramural Basketball League

Eleven games were played last week during the first full week of action in the China Lake Intramural Basketball League's 1979-80 season.

Eighteen teams that have been divided into three divisions (A, B and C) are competing four nights a week (Monday through Thursday) at the Center gym.

At the end of last week, the Shooters and Loewen's A were tied for the lead in Division A as a result of their wins over Seattle II and the Sports Etc. Raiders by scores of 63-59 and 55-42, respectively.

The Seattle II cagers got off to a 27-24 halftime lead over the Shooters, but the Shooters (led by Al Sorensen, who tallied 17 points) had the best of it in the second half and emerged with a win by the narrow margin of 4 points. J. T. Howell led the Seattle II team with 13 points.

Mike Graham hit 17 points to set the pace in the scoring department for the Loewen's A team in its 55-42 win over the Sports Etc. Raiders.

In another Division A contest played last week, the Sports Etc. Raiders outscored Desert Motors by a final tally of 45-39. Jerry Pangle of the Raiders was the only player in the double-figure scoring column, and he chalked up 11. Also in Division A, Desert Motors edged Seattle II 53-50.

In last week's Division B competition, the Loewen's B cagers surged into the lead by virtue of a pair of wins at the expense of the Nuggets and the James Gang.

The division leaders, who rolled up a 25-15 halftime advantage over the Nuggets, continued to hold the upper hand during the



BATTLE FOR BALL— Tony Jackson (at left), of Cerro Coso, and Troy Smith, of Reedley College, battle for the ball in this bit of action during last Friday night's college hoop tilt at the NWC gym. Players on the fringe of the melee near the basket are Kevin Tatum (No. 31) of Reedley, and Dan Chavis (No. 40), a starter at one of the guard position for the Cerro Coso Coyotes. Cerro Coso won the game 94-73. The Cerro Coso cagers will play Taft College tonight in another home game at the Center gym. Tip-off time is 7:30. — Photo by Ralph Halcomb

Teams competing in Youth Center Soccer League play resume action

Following a break in the schedule due to the Thanksgiving Day long weekend, action resumed last Saturday for teams competing in the Youth Center Soccer League.

In the National Division (for 5th and 6th graders) the Sounders (who pounded the Surf 6-1) and the Tornados (who edged the Kicks 2-1) are in a battle for the division title.

The Sounders' 6-1 win over the Surf came on two goals each by Scott Hannon and Mike Garrett, and single tallies by Corey Trovinger and Tom Dobbs. Top defensive effort for the Sounders by Dan Webster limited the Surf to a single goal that was scored by Brian Collie, with an assist from Bryan Jones.

Hard work on offense by the Tornados paid off in goals that were scored by Chris Turner and Tim Wee to give their team a 2-0 lead until late in the game when Sean Freyne passed to Scott Piri who scored the lone goal for the Kicks in a losing effort. Christopher Fryer was outstanding on defense for the Tornado team.

In the American Division (for 3rd and 4th grade players), a 2-1 victory by the Timbers over the Strikers enabled the Timbers to hang onto the division lead by the slim margin of 1 point. Results of other American Division games played last Saturday were Drillers 3, Sting 1; Rogues 3, Lancers 1; and Hurricane 2, Blizzard 1.

Wayne Ziegler and his brother, Matt, accounted for the 2 goals tallied by the Timbers in their crucial win over the Strikers. The division leaders also got a lot of help on offense from Eric Wee and Greg Wetzel. The Strikers tallied their lone goal on a penalty kick by Phillip Serpanos.

The Drillers, 3-1 victors over the Sting, overcame a sluggish first quarter performance to rack up goals by Mark Bullard, Bobby Hudson, and David Tetmeyer. Although players for the Sting threatened to score several times, they were able to break through just once on a good pass from Craig Rindt to Mike Rindt, who booted the ball into the net. Scoring efforts by the Sting were hampered by the defensive play of Allen Finley and Steve Dargo, center halfback and goalkeeper, respectively, for the Drillers.

In the Rogues vs. Lancers contest, the Rogues tallied first on a lengthy free kick by Perry Martinez, and then went ahead 2-0 when Wayne Shadd and Doug Chalmers teamed up for another tally. The Lancers cut their opponents' lead to 2-1 on a goal by Paul Andrews (assisted by Julie Hall), but the Rogues came back with final goal that was the result of a good second effort by Carl Hibberts.

In another close game (Hurricane 2, Blizzard 1), Bobby Gaines, aided by an assist by Shaw Carter, got the Blizzard team off to a 1-0 lead. This headstart failed to hold up however, as the Hurricanes finally got rolling and won the game on goals by Tony Haaland and Phillip Walker—the latter assisted by David Mann.

Two teams, the Fury and the Earthquakes now lead the Pacific Division (for 1st and 2nd graders) with identical records

second half and won by final margin of 47-33. High point man was Wynn Christiansen with 16 for Loewen's B.

In the Loewen's B team's win over the James Gang, the Loewen's team led 27-18, at the half and won by a final score of 49-42. Gary Ziegler of the James Gang was the top scorer with 24, closely followed by Garyl Smith, of the Loewen's B squad, who had 22.

Scores of other Division B games played last week were Burger King 64, Night Stalkers 55; and Bebops 47, James Gang, 36.

Following the first six games played between Division C teams, the Poochies and Brown Sugar are tied for the division lead with a record of two wins apiece.

The Poochies outscored the Innates 31-23 and overwhelmed the Pizza Villa Floorburners 48-26. Ron Atkins scored 11 points for the Poochies in their win over the Innates, while Cindy Barber (the only girl player in the Intramural Basketball League) tallied 10 for the Poochies during their lopsided win over the Floorburners. High scorer in this contest was Art Castillo, whose 13 points were half of the total tallied by the Floorburners.

The Brown Sugar team began the Division C slate with a 44-30 win over the Pizza Villa Floorburners. Larry Rafael, of the B.S. squad, tallied 14 points—one more than Sam Minshew, who was the top scorer for the Floorburners.

Brown Sugar had to overcome a 14-9 halftime deficit in order to post a 31-28 win over the Gas Bags in its second game of the season. High point honors in this contest were

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(Continued on Page 7)

Cerro Coso College squad rips Reedley in first home game

In the first home appearance of the 1979-80 season, the Cerro Coso Community College basketball team rolled to an easy 94-73 win over the visitors from Reedley College during a game played last Friday night at the Naval Weapons Gym.

The Cerro Coso Coyotes, coached by Bill Locke, led by as much as 23 points in the first half, which ended with the Coyotes in possession of a commanding 43-22 lead.

A swarming defense by the Coyotes, coupled with the fact that the players from Reedley were consistently off the target in their scoring attempts, accounted for the comfortable lead the Cerro Coso cagers were able to build up prior to the half-time intermission.

Jon Hall, stellar guard for the Coyotes, tallied 15 of his 23-point total in the first half.

The complexion of the game changed a bit during the first 6 min. of the second half, when the Reedley cagers outscored Cerro Coso by a margin of 22 to 10 and cut the Coyotes' lead to 9 points (53-44).

For the remaining 14 min. of action, however, the Cerro Coso hoopsters had the upper hand and went on to win going away by a final tally of 94-73.

The game's high point man was Troy Smith of Reedley with 27, but only two other players on the visiting squad finished the game in the double-figure scoring column. They were Brad Fry with 12 and Kevin Tatum with 10.

Smith, who hit only two field goals in the first half, found the range during the second 20 min. of play and tallied consistently on long, looping shots from the outside.

The Coyotes had much better balanced scoring than did Reedley. In addition to the 23 points by Hall, the Coyotes had four other players with 10 or more points. They were Curtis Owens (17), Ron Morgan (14), Tony Jackson (13), and Dan Chavis (10).

In another non-conference game played Tuesday night, the Coyotes were steamrollered 109-80 by the San Diego City College squad. Next home game for Cerro Coso will be tonight against the Taft College Cougars. Tip-off time is 7 p.m. in the Center gym.

price. The contract does not include power development beyond 75 megawatts.

The California Energy Company, Inc., has quoted an initial price of 4.2015 cents per kilowatt hour at current rates. When this price is escalated to 1985 price levels using an index cited in the contract, it is anticipated that the geothermal resource may be shown to save the Navy approximately \$1,250,000 in the first year of operation.

This savings is expected to grow throughout the duration of the contract as the difference between the cost of commercial electricity and geothermally-generated electricity increases.

Development of the geothermal energy resource in the Coso area of NWC will be carried out under a program sponsored by NAVFAC. The contracting office is NAVFAC's Western Division Office in San Bruno and the contract administrator is Capt. Jon Ives, NWC Public Works Officer.

The contract signers yesterday were Capt. John Paul Jones, Commanding Officer of the Western Division Office of NAVFAC, and R. Greene Risley, vice-president of the California Energy Company, Inc.

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ROUNDUP TIME — Bureau of Land Management personnel (l. to r.) Lavern Young, who is the "burro specialist" from the Bakersfield district; John Peek, from Bishop; and Glenn Harris, livestock management specialist from the Ridgecrest BLM office, confer after a herd of 18 burros were rounded up from private lands south of the Center's boundary after they had munched the homeowner's plants. These burros were then transported to a holding facility at Olancha to await adoption under the BLM "adopt a burro" program. Anyone who has the capability to handle a burro and clearly knows what owning a burro means can apply for a free burro from BLM. Last year about 150 burros were adopted in this region before cuts in funds forced the program to a standstill. This year Young hopes that more than 1,000 burros can be placed into the hands of those who wish them as pets or pack animals. — Photo by Ron Allen

Exploding burro population...

(Continued from Page 1)

already suffering because the burros not only eat food plants needed by bighorn sheep and deer, but also trample through and foul the springs used by a variety of animals for drinking water.

They also compact the ground on their trails (burros follow each other's footprints single-file) at the foot of cliffs and elsewhere on hillsides; rodents can no longer survive in the compacted and trampled ground, thereby eliminating a food-source for eagles, falcons, and other raptors on the ranges.

The burro population pressure has already brought groups of the animals from the remote upland range areas where they have roamed since breeders at a burro farm in the Argus Range and at another Hunter Mountain turned their animals loose when the automobile and truck first came to the desert. Burros wander across Armitage Airfield runways and across state and county roads beyond the boundaries of NWC.

So far no plane crashes have occurred because of burros on airfield runways; aircraft are warned off by air controllers when the four-footed hazards are seen strolling across the concrete. Drivers of automobiles have not been so lucky, however. Several have recently had accidents when burros crossed a road unexpectedly in the dark.

A problem with burros has existed sporadically at NWC since the 1950s. Periodic droughts resulted in death by starvation of many burros (especially in the

Mojave "B" Randsburg Wash range complex). Herds were also carefully culled, with permission from state and federal authorities, in both 1965-6, and 1966-7.

Burros are a regional rather than a local problem. Currently about 9,000 roam the Saline Valley, Panamint Valley, Death Valley, and NWC. All of Inyo County, other than NWC lands, is a state burro preserve; all burros in the area legally belong to the State of California.

Outside organizations such as the Sierra Club, The Audubon Society, National Wildlife Foundation, Desert Protective Council, and various professional organizations have concluded after studying the problem that humane reduction is necessary to protect the land for wild species. Other feral species, NWC's wild horse herd of 500 animals for instance, do not destroy land for other use in the same way that burros do.

NWC's proposed action to reduce the size of the wild burro herd at China Lake is based on an obligation to exercise good stewardship for the welfare of the burros and other desert wildlife. No firm decision will be made about whether or how this shall be accomplished until the management plan is completed in November 1981.

Contract signed...

price. The contract does not include power development beyond 75 megawatts.

The California Energy Company, Inc., has quoted an initial price of 4.2015 cents per kilowatt hour at current rates. When this price is escalated to 1985 price levels using an index cited in the contract, it is anticipated that the geothermal resource may be shown to save the Navy approximately \$1,250,000 in the first year of operation.

This savings is expected to grow throughout the duration of the contract as the difference between the cost of commercial electricity and geothermally-generated electricity increases.

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Cdr. Valovich to take over duties of head of Military Administration Dep't

Cdr. Paul Valovich, a veteran of 14 years as a Navy officer and naval aviator, will assume the duties of head of the Military Administration Department and Commanding Officer of Enlisted Personnel during a change of command ceremony to be held on Monday, starting at 8 a.m., at Armitage Airfield.

Cdr. Valovich is replacing Cdr. Rodney A. Knutson, who will be leaving China Lake for the Miramar Naval Air Station in San Diego, where he is slated to serve for 15 months as executive officer of VF 126, a Fighter Replacement Air Group. After 15 months, Cdr. Knutson is due for promotion to the post of commanding officer of VF 126.

During the change of command ceremony, remarks appropriate for the occasion will be presented by Capt. William B. Haff, NWC Commander, following a review by Cdrs. Knutson and Valovich of military personnel assembled for this event.

Cdr. Valovich has been assigned here from the Naval Air Station, Lemoore, Calif., where he has served with Attack Squadron (VA) 192 for nearly two years.

His 14 years of service as an officer in the Navy began following his graduation from Purdue University in June 1965 with a degree in mechanical engineering. He had been involved in the NROTC program at Purdue and, upon graduation, went directly into primary flight training at Pensacola, Fla.

Other flight training at Meridian, Miss., and Beeville, Tex., prepared Cdr. Valovich for duty as an A-4 Phantom aircraft pilot. For three years, March 1967 to February 1970, he was home based at Lemoore NAS, and, as a fighter pilot with VA 192, was involved in deployments to Vietnam aboard the aircraft carriers USS Ticonderoga and USS Oriskany.

Cdr. Valovich flew F-4s on 209 combat missions, earned 21 Air Medals, the Navy Commendation Medal, and appropriate

service ribbons for his part in the Vietnam War.

Duty as an A-4 aircraft flight instructor with Training Squadron 21 in Kingsville, Tex., then preceded 2½ years as a student at the Naval Postgraduate School in Monterey, Calif., where Cdr. Valovich received a master's degree in aeronautical engineering in September 1973.

Sea duty followed as a member of the ship's company (catapult and arresting gear officer) on the USS Coral Sea, the aircraft carrier from which strikes were launched at the time of the Mayaguez incident that came right on the heels of the U.S. departure from Vietnam.

Once more back at Lemoore NAS for replacement pilot training after nearly a year on the USS Coral Sea, Cdr. Valovich soon joined Attack Squadron 215 as maintenance officer and was with the squadron

Other flight training at Meridian, Miss.,

Fed'l Women's Program, EEO awards presented at banquet

Nearly 150 Naval Weapons Center employees and friends attended the banquet and awards program held on Nov. 28 at the Community Center at which outstanding contributions to both the Federal Women's Program and the Equal Employment Opportunity Program were recognized.

Mistress of ceremonies for the event was Karen Altieri, NWC Professional Recruitment Coordinator, who was formerly the Center's Federal Women's Program Coordinator in the EEO Office. Awards were announced by Burrell W. Hays, Deputy Technical Director, representing Command, and were presented by Beto Bernal, Deputy EEO Officer, and Betsy Eggleston, chairperson of the Federal Women's Program Committee.

Three Supervisors Honored

There were three winners of EEO awards in category 1, which is for supervisors at all levels of supervision and management personnel who excel in promoting EEO within their organizations.

Eddie G. Nelson, head of the Metrology Branch of the Engineering Department, was honored for his efforts to assist employees in his branch by providing growth and career development opportunities to them, and by making total use of the Upward Mobility Program and its concepts.

Dr. Marguerite Rogers, head of the Systems Development Department, received an award based on the continuing emphasis that she places on EEO within her department, and the Center-wide impact she has had on furthering the Center's EEO goals. Dr. Rogers received a standing ovation from the audience, amidst laughter as Hays referred to her as "Den mother to the department heads."

The third winner in the supervisor category was Nadim Totah, head of the HARM Program Management Office and formerly head of the Product Assurance Division (Code 368). He was honored for encouraging his branch heads to seek qualified women and minority group members to fill vacancies in their branches.

EEO Effort Recognized

In the second category, that for persons whose activities have EEO implications, there were four winners.

The first honoree was June Deatherage, a visual information specialist in the Technical Information Department, who has designed and created awards (including the award that she herself received), plaques, and the other art-related items used by the EEO program. Mrs. Deatherage was not aware until her award was announced that she would be receiving an award, as was the case with the other



HAPPY OCCASION — Burrell Hays, NWC Deputy Technical Director, beams benignly on winners of Federal Women's Program Awards at the annual FWP banquet. Recipients (l. to r.) were Dr. Jean Bennett, outstanding woman scientist; D. Madge Bryant, outstanding woman technician; Eloise Burkland and Roland ("Boo") Burks, for support provided to the FWP; and Bernie Connolly, acting head Technical Information Department, who received an award on behalf of TID for support provided by the department to the FWP beyond that to be expected in the normal course of duty.

honorees.

James Fath, a management analyst in the Electronic Warfare Department, was honored for his continuing support of the School Visitation Program, and for his efforts on behalf of the Native American community in the Lone Pine area.

The other two winners in this category were Mrs. Toni Goff, a former administrative assistant in the Detonation Physics Division of the Research Department, and Anthony San Miguel, a mechanical engineer formerly with the Applied Technology Branch in the Ordnance Systems Department.

Both were recognized for their work with the Hispanic Employment Program. Joe Lopez, Jr., the Center's Hispanic Employment Coordinator, accepted the awards for them.

The final EEO award, that presented to an EEO Program official, was given to Grant B. Williams, Jr., the former Deputy EEO Officer for the Center. Emanuel Dunn accepted the award for Williams, who now works in Washington, D.C.

The Federal Women's Program Awards each year recognize women who have served in varying ways, with categories being changed annually to permit more women to be honored. The 1979 categories



HONORED FOR EEO EFFORTS — Burrell W. Hays, (at left) NWC Deputy Technical Director, presented EEO awards to four individuals whose activities have EEO implications. Shown are two of the recipients (l.-r.) June Deatherage and Jim Fath, and Joe Lopez, Hispanic Employment Program Coordinator. Lopez accepted awards on behalf of Toni Goff and Anthony San Miguel, who were not able to be present at the ceremony. Manny Dunn, (at far right) accepted an award honoring Grant B. Williams for his work as an EEO Program official. Williams is now employed in Washington, D.C.

Bryant was honored for the contributions she has made to a varied and technically demanding research, development, and testing program in the field of thermal research.

Two winners were selected to receive awards for their individual service to the Federal Women's Program.

Mrs. Eloise Burkland, information receptionist in the Program Coordinator's Office, was chosen for her volunteer efforts to coordinate the tickets sales and reservations of six annual Federal Women's Program events although these are not part of her duties.

Also selected was Roland "Boo" Burks, an audio visual production specialist, formerly with the Program Coordinator's Office, for his cheerful dedication and service in providing, often on his own time, the skills needed to ensure that Federal Women's Program events had an effective sound system.

TID Receives Award

The Technical Information Department was honored for the support provided to the Federal Women's Program beyond that to be expected in the normal course of duty. This award was accepted by Bernie Connolly, acting department head, who noted that he was acting as surrogate for all the people in his department who had provided the support.

A special Federal Women's Program Award was presented by Mrs. Eggleston to a very surprised Karen Altieri. Mrs. Eggleston noted that this was one way in which members of the Federal Women's Program Committee could express their appreciation for Mrs. Altieri's efforts on behalf of the Federal Women's Program and EEO.

Speaker for Evening

Speaker for the evening was Philip C. Russell, Public Affairs Officer for the Civil Engineering Laboratory, Port Huene, Calif.

In his address he discussed the role that sports can play in the development of a professional woman, both physically and psychologically. He stressed that women can excel in the professional world and in sports without any loss of femininity, and that sports can leave women with pride in and control over their own finely tuned bodies.

singled out a woman in science or engineering, a woman technician, and an individual award for service to the Federal Women's Program.

There also was a department award that was presented to the department that provided the most support to the Federal Women's Program during the year.

Outstanding Woman Scientist

Dr. Jean Bennett, a research physicist in the Research Department, was selected as the outstanding woman of the year in science or engineering. She has distinguished herself in creative scientific research, in strengthening relations between the Center's research program and efforts in industry, and in the professional guidance and encouragement that she has given junior scientists at the Center as their careers have developed.

Selected as technician of the year was D. Madge Bryant, a physical science technician in the Thermal Analysis Branch of the Ordnance Systems Department. Mrs.



SUPERVISORY SKILLS RECOGNIZED — Supervisors honored for their excellence in promoting equal employment opportunities for women and minorities in their organizations were (l. to r.) Nadim Totah, now head of the HARM Program Office and formerly head of the Product Assurance Division of the Engineering Department; Dr. Marguerite Rogers, head of the Systems Development Department; and Eddie G. Nelson, head of the Metrology Branch in the Engineering Department.

NWC gas tanks apt to run dry unless consumption is cut

Idling motors get zero miles per gallon; in any case, the need to let a vehicle idle to warm up the engine is an old wives' tale, according to the Transportation Division of the Public Works Department.

Not only should an engine not be idled to warm it up, but also, if it has to stop for longer than 30 seconds, the engine should be turned off and the key pulled.

The need to conserve each drop of gas is real; NWC is receiving 10 percent less gasoline than its 1977 allocation, although the activities requiring gasoline have increased.

The Parachute Systems Department, for example, requires 28,000 gallons of gasoline annually; the department moved to China Lake from El Centro, but its gasoline allocation did not.

Besides demands imposed from new or additional activities, NWC's own fleet of vehicles are, on the average, two years older than they were in 1977. Being older they are less fuel-efficient, yet they, too, must function on the reduced fuel allowance.

Recently the Center has been using more gasoline than it has been receiving — a condition that obviously cannot continue because the extra supplies that had been on hand have been depleted.

Had a supply truck not arrived last Monday morning, many of the Center's vehicles would have been without fuel because no reserve supply of gas remains. Only through making the best use of the fuel available can the Center's essential driving needs be met.

Next ROCKETEER will be final issue in '79

The ROCKETEER to be issued next Friday, Dec. 14, will be the final publication of the year. The Center newspaper will resume publication in 1980 with the issue dated Jan. 4.

In view of this, all clubs, organizations and other groups interested in publicizing special holiday activities are reminded to submit their information to the The ROCKETEER office no later than Tuesday, Dec. 11, and earlier if possible.



READY TO GO — PR3 Mike Kolb helps PR3 Anne Michelle Mooney get set for her first parachute jump — a jump made from a C-117 aircraft traveling at a speed of 100 knots at an altitude of 4,000 ft. PR3 Mooney is one of two local female parachutists who will complete the 18-jump syllabus required to attain a rating of test parachutist. All their jumps will be videotaped and filmed as part of a biomedical research project to gather data on the physiological responses of the parachutists. The data will then be used to help design parachute and equipment that will fit female aviators correctly.

Speaker at IEEE meeting to discuss photovoltaic work

Garyl Smith, program manager for Alternate Energy Systems in NWC's Energy Program Office, will discuss the Navy's photovoltaic program at a lunch meeting of the China Lake Section of the Institute of Electrical and Electronics Engineers on Monday at 11:30 a.m. in the Chart Room of the Commissioned Officers' Mess.

NWC has been designated lead laboratory for the Navy's photovoltaic work. Smith will give a general description of photovoltaic systems, their potential use, and the details of Navy participation in the Department of Energy's Photovoltaic Utilization Program.

Visitors are welcome, and no reservations are required. Lunch will be either from the buffet or the regular lunch menu.

Make a list, check it twice, for a fire-safe Christmas is always nice

By NWC Fire Division

Each year thousands of American families suffer needless injuries, loss of life and destruction of property due to accidents involving holiday decorations.

Before you buy that tree, here are some things to consider. Check it for freshness; there are several things you can look for. Brittle branches and shedding needles are sure signs of dryness; fresh needles bent between the fingers won't break. Tap the tree lightly on the ground. If any needles fall off, the tree is too dry.

When you bring your tree home, cut the butt end diagonally one or two inches above the original cut. Place the tree in a sturdy holder. For additional stability for a large tree, fasten it to the wall or ceiling with thin wire from at least two points.

If you decide to purchase an artificial tree, it should be made of fire-resistant material. This does not mean that the tree will not burn but that it will not catch fire easily. As with natural trees, keep it away from heat sources.

If you purchase lights this year and are concerned about energy savings, buy miniature blinking lights. They use less energy and stay cooler than the standard solid burning types. Always look for the UL Label of Underwriters Laboratories when purchasing light sets. If you are using your old lights, check for frayed wires, loose connections, broken or cracked sockets and spots where the bare wire is exposed. Any set that is damaged should be thrown out or repaired.

If you must use extension cords, don't overload them. Don't put more than three sets of lights on any extension cord.

When leaving the house or retiring for the evening, be sure that all lights are turned off by unplugging them at the wall outlet.

Never use wax candles on or near a tree. This is a very serious fire hazard. Any decorative candles should always be kept well away from children and any flammable materials.

All trimmings used for tree or home decorations should be flame resistant.

Here are some other things to ponder in regard to decorations and young children: Mistletoe and holly berries may be poisonous if more than a few are swallowed.

Use only artificial icicles that do not contain lead.

Fire salts which produce a multicolor effect when thrown on a wood fire contain heavy metals; eating them can cause serious gastrointestinal problems.

This is also the season for fireplaces. Keep a screen in front of the fireplace any time a fire is burning. Never use the fireplace as an incinerator. Do not burn wrappings or evergreen boughs there. These can burn suddenly and rapidly, throwing off sparks and burning debris.

Before starting a fire, remove all decorations from the area and be sure the flue is open. Never use flammable liquids to kindle or rekindle a fire. Keep children away from the fire because their clothing can ignite easily.

Let's make this holiday season a safe one. The National Fire Protection Association estimates that 9,500 people will be treated for injuries due to holiday decorations and fireplaces. Don't be one of these statistics. The NWC Fire Division hopes that these reminders help you and yours have a safe and happy holiday season.

Any questions regarding outside decorations should be directed to Code 242, ext. 2146, or Code 2605, ext. 3411-224.

Hillyer to speak at Navy League dinner on Dec. 13

Bob Hillyer, NWC Technical Director, will be the guest speaker at the next monthly meeting of the Indian Wells Valley Council of the Navy League.

The meeting will be held on Thursday, Dec. 13, at the Enlisted Mess.

The Navy League get-together will start with a social hour at 6:30 p.m., followed by a T-bone steak dinner served at 7:30.

The deadline for reservations, which can be made by calling Tom Andress, Navy League president, at 446-5763 or 446-5914, or Irene Rainey at 377-4276, is Sunday, Dec. 9.



Four win Michelson Laboratories Award . . .

(Continued from Page 1)

and (where appropriate) establish the Naval Weapons Center as a base of production for explosive ordnance for selected items.

Additionally, it is noted in the memorandum recommending Greene for the Michelson Laboratories Award, that (on his own initiative) he perceived the need for a full spectrum integrated detonation physics laboratory.

Drawing upon his experience and expertise in the field, Greene designed, developed specifications for, and fostered the construction of a complete integrated laboratory for the study of explosive phenomena. At present there are no other such labs in the DoD with this integrated capability.

Greene's recognition as an authority in the explosives field extends beyond NWC to several segments of government and industry. As a result, he was a key participant in the design of the escape system for the Boeing 747 Space Shuttle carrier aircraft.

His work in this program resulted in the development of an explosive system to create a large opening in the side of the Space Shuttle carrier aircraft to permit emergency escape by the crew.

Greene, who was graduated from Bucknell University in Lewisburg, Pa., in 1957 with a BS degree in electrical engineering, came to work here in 1962 as an electronics engineer in the Research Department. He was transferred in 1964 to the Propulsion Department (now called

Ordnance Systems Department), and has remained in this department for the past 15 years.

Mello was chosen to receive the Michelson Laboratories Award in recognition of his exceptional contributions to the field of defense suppression through threat analysis and weapons system synthesis as applied to anti-radiation missiles.

Mello, who heads the Systems Analysis Branch in the Electronic Warfare Department's Systems Science Division, is recognized nationally as an expert in the area of lethal defense suppression. During nearly 20 years in this field, he has contributed substantially to the development of three major U.S. lethal defense suppression weapons systems. They are Shrike, Standard Anti-Radiation Missile (ARM), and High Speed Anti-Radiation Missile (HARM).

Contributions made by the honoree have spanned the major areas of scenario and threat analysis, weapons system analysis, system effectiveness, performance analysis, cost effectiveness analysis, and system integration.

Many of the areas analyzed by Mello required development of models, techniques and tools that previously did not exist. This work with state of the art systems design demanded creativity, logic and practicality on the part of Mello, who repeatedly displayed these characteristics.

The Michelson Lab Award recipient has published more than 30 reports that document the results of his work. Many of these reports have been pivotal in

establishing design features for anti-radiation missiles.

Mello's knowledge of anti-radiation missile weapons has caused sponsors to seek him out for support in developing U.S. countermeasures against threat anti-radiation missile weapon systems. He also is involved in a pioneer effort aimed at modifying existing radar systems and designing new radars to minimize their susceptibility to ARMS.

Now a supervisory physicist in Code 35, Mello began working here in 1960 in the Weapons Development Department. At the time of a departmental reorganization in 1970, he was transferred to the Electronic Systems Department.

Mello is a 1956 graduate of Providence College in Providence, R.I., and has a bachelor of science degree in physics.

Presentation of the Michelson Laboratories Award to Vorwerk was based upon his managerial excellence and leadership as program manager for the Restricted Area Air Space R-2508 Enhancement Program.

Vorwerk, who heads the Range Instrumentation Support Division in the NWC Range Department, was given management responsibilities in 1975 for the fledgling R-2508 Enhancement Program. At that time, the program consisted basically of two phases — the first aimed at providing an interim surveillance radar capability for NWC, and the second calling for integration of the NWC system into a larger network to provide improved radar surveillance to the total R-2508 restricted air space that takes

in a 17,000 sq. mile area from Palmdale to Bishop.

The interim system consisted of a surplus "Arctic tower" and Nike-Hercules radar located at Laurel Mountain and a mission control facility site on the NWC ranges. Vorwerk successfully overcame a wide spectrum of construction, installation and system technical difficulties that initially hampered completion of Phase I of the program.

While involved with Phase I, he also was engaged in the detailed planning of Phase II. This included obtaining commitments from the Federal Aviation Administration (FAA) and other DoD agencies to provide staffing and funding support to operate and maintain the new R-2508 expanded surveillance network.

Vorwerk was able to work effectively in gaining the cooperation and support of the FAA and other DoD agencies in establishing this critically-needed airspace surveillance network. In addition to reducing the potential of mid-air collisions, one of the prime goals of the R-2508 Enhancement Program is to enable better management and more efficient use of this air space.

Vorwerk is a 1959 graduate of Iowa University in Iowa City with a BS degree in electrical engineering. He joined the work force at China Lake in 1963 as an electronics engineer in the old Test Department.

In 1971, his group was reorganized into the Electronics Systems Department and then transferred two years later to the Test and Evaluation Department. He has worked in the Range Department since 1976.