



**READY FOR HOLIDAY BAZAAR** — Four-year-old Leslie Stein and her young sister, Sarah, who is 3 months old, are surrounded by stuffed animals that will be among the items offered for sale by the Indian Wells Valley Spay and Neuter Program during the Holiday Bazaar on Friday and Saturday, Nov. 9 and 10, at the Community Center. The profits from this booth will go directly into a fund used to make rebates to those who have their pet cats and dogs spayed or neutered.

## WACOM Holiday Bazaar to open on Nov. 9 at Community Center

The annual Holiday Bazaar, sponsored by the Women's Auxiliary of the Commissioned Officers' Mess and held at the Community Center, is just around the corner.

Capt. William B. Haff, NWC Commander, will officiate at a ribbon-cutting ceremony at 10 a.m. next Friday, Nov. 9, to mark the start of this gala affair, which will be open from 10 a.m. to 8 p.m. on Nov. 9, and from 10 a.m. to 4 p.m. on Nov. 10.

According to Sue Byrd, chairman of the tenth annual bazaar, more than 20 local clubs and organizations are scheduled to take part in this yearly fete — an event which had its origin in efforts to raise funds for POW/MIA personnel during the Vietnam War.

Last year's Holiday Bazaar grossed \$17,762, which enabled the participating organizations to offer scholarships, support missions, and give financial aid to a wide variety of charitable projects.

Mrs. Byrd urges all local residents and their guests to attend, do a bit of holiday shopping, and enjoy the creative efforts of their friends and neighbors.

Once again during the two days of the 1979 Holiday Bazaar, the China Lake Community Center will be transformed into a scene reminiscent of Christmas. Santa Claus will be on stage, Christmas music will be played, and booths colored red will be decorated with green garlands.

### Many Groups To Participate

A partial list of the groups that will be endeavoring to raise money by participating in the bazaar, and some of the many items they will be offering for sale, follows:

**Desert Planters** — miniature dried flower arrangements, pine cone candle wreaths, floral and bird greeting cards, notepaper and calendars, and material to be used in preserving dried flowers.

**St. Michael's Episcopal Church Women** — spice ropes, straw and cornhusk wreaths, holiday door ornaments, knitted and crocheted items.

**Burroughs High School Band Boosters** — Christmas tree ornaments, crocheted angels, wreaths made of cones, and table runners.

**Maturango Museum** — wind chimes, tortoise pillows, books and other publications about the local area.

**Sweet Adelines** — tree ornaments made from wood shavings, Santa Claus lapel pins, and yarn ornaments.

**High Desert Junior Women's Club** — bread-dough ornaments, Christmas stockings, three-dimensional stuffed Christmas trees, stained-glass planters.

**Cerro Coso Wives' Women's Scholarship**

Organization — photographs of children of all ages with or without Santa Claus.

**Randsburg United Methodist Church** — handmade quilts and baby blankets with matching pillows, lap robes, and plates commemorating the 80th anniversary of the Randsburg Church.

**Pink Ladies Auxiliary of the Ridgecrest Community Hospital** — decorations for packages, including tiny ornaments and stickers; and Colonial pocket dolls dressed in Christmas costumes.

**Indian Wells Valley Council for Retarded Citizens** — Christmas cards, glass and wooden ornaments for home and tree, stained glass ornaments.

### Handmade Items for Sale

**Navy Wives Club** — handmade items and macrame towel holders.

**WACOM Ways and Means Committee** — desert wildflower note paper, WACOM cookbooks, and plastic key chain ornaments.

**Burroughs High School Art Club and Woodcrafters** — wood cutting boards, knife holders, pottery and leather items.

**Protestant Women of the Chapel (Friday, Nov., 9 only)** — homemade pies, cakes, rolls, breads, and cookies.

For those whose appetites are whetted by the aroma of homemade baked goods and candies, WACOM will have a tea room well supplied with cakes, pies, sandwiches and beverages.

Visitors are invited to attend the Holiday Bazaar. Special event procedures will be in effect at the NWC main gate to expedite the entry of all those who do not have NWC passes.

## Assessments due from GEBA, CLMAS members

Assessments are now due from members of the Government Employees Benefit Association and the China Lake Mutual Aid Society following the recent death of Fred Dille. This is assessment No. 481.

The deceased, a resident of Ridgecrest and a former long-time employee in the NWC Public Works Department, died on Oct. 30.

The collection of assessments is being handled by Larry Mason, GEBA and CLMAS treasurer. They can be mailed to him at P.O. Box 1559, Ridgecrest.

NWC employees interested in joining can obtain information on GEBA and CLMAS membership by calling Mason after working hours at 446-4794. Wives of members are now eligible to join, Mason said.

## IWV TV Boosters to select four new board members Mon.

Four board members will be elected at the next meeting of the Indian Wells Valley TV Booster, Inc., which will be held on Monday, Nov. 5, starting at 5 p.m. at the Kern County Library, 131 E. Las Flores St. in Ridgecrest.

The election will be held to fill the expiring terms of the positions held by Mike Ripley-Lotee, the current president; Jim Rieger, the current vice-president; and board members Dan Ryan and Don Tilford.

Candidates proposed by a nominating committee are Dave Schultz of Inyokern, Doug Reid of Ridgecrest, and M. Stan Sanders of China Lake. Additional nominations will be accepted from the floor during the meeting.

All IWV TV Booster members for 1979 are eligible to vote and comment on other TV Booster matters. Officers of the organization are selected from the board of directors by those serving on the board. Continuing board members are James Wolley, Gene Schneider, Dorothy Handler, John Speakman, and John Piri.

The IWV Booster, Inc., operates the UHF/VHF and FM translators which serve Ridgecrest, China Lake, and Inyokern.



### CPO Club

The Chief Petty Officers' Club invites all those with fond memories of the music of the 1950s to once again attend an "Oldies But Goodies" program tonight.

For the listening and dancing pleasure of its patrons, the CPO will provide music by disc jockey Bill Coy and his Blue Jeans disco. Coy will be spinning platters from 8 p.m. until 1 a.m.

From 6 to 9 o'clock the CPO dining staff will offer its regular Friday night Icelandic cod and prime rib of beef specials.



**BIG DOINGS AT COM** — Another special treat is in store for members and guests of the Commissioned Officers' Mess next Friday, Nov. 9. Direct from Las Vegas, the COM will be presenting live in a two-show performance, the George Holmes "Ink Spots," whose big hit rendition of "If I Didn't Care" in 1938, along with all of their other great musical recordings, has gained them fame throughout the country. An early buffet dinner featuring prime rib of beef and all the trimmings is planned from 5:30 to 8:30 p.m. on Nov. 9, and music for dancing will be provided by the musical group that accompanies the "Ink Spots." Showtimes will be 9 and 11 o'clock, and the cost for this gala evening will be \$7 per person. Reservations are a must and can be made by calling the COM office at 446-2549.

## MOVIES

(G) ALL AGES ADMITTED  
General Audiences  
(PG) ALL AGES ADMITTED  
Parental Guidance Suggested  
(R) RESTRICTED  
Under 17 requires accompanying Parent or Adult Guardian

Regular starting time—7 p.m.  
For synopsis information call  
Code-0 Phone 939-2411

**FRIDAY, SATURDAY NOV. 2,3**  
"LORD OF THE RINGS"  
Animated-Fantasy, rated PG, 133 min.

**SUNDAY NOV. 4**  
"AN UNMARRIED WOMAN"  
Starring  
Jill Clayburgh and Allan Bates  
(Drama, rated R, 124 min.)

**MONDAY NOV. 5**  
"STAR CRASH"  
Starring  
Marjo Gortner and Caroline Munro  
(Science Fiction, rated PG, 99 min.)

**WEDNESDAY NOV. 7**  
"GODFATHER II"  
Starring  
Marlon Brando and Al Pacino  
(Drama, rated R, 101 min.)

**FRI..SAT. NOV. 9, 10**  
"IN LAWS"  
Starring  
Peter Falk and Alan Arkin  
(Action-comedy, rated PG, 110 min.)

## Program about ocean liner Titanic slated Nov. 13 by WACOM

The Titanic will be the theme of the November lunch meeting of the Women's Auxiliary of the Commissioned Officers' Mess on Tuesday, Nov. 13, at the Commissioned Officers' Mess.

The social hour will begin at 11 a.m., to be followed by a buffet lunch served at 11:45. The buffet will duplicate the buffet served on the Titanic on April 14, 1912, the day she sank. It will feature cold sliced turkey and ham, along with an assortment of salads and relishes and a hot roll.

Charles Sachs, whose interest in the Titanic has led to a lifetime of research about the vessel, will tell her story. He sponsors the annual Titanic Anniversary Remembrance in Los Angeles, helped with photographic research for the feature film "Raise the Titanic," and is working on a television special about the vessel.

Reservations and cancellations must be made by next Thursday, Nov. 8. This can be done by telephoning either Dayle Ann Huckins at 375-7655, or Ruth Rudeen at 375 4754.

## New map of IWV area on sale at CoC office

A new 4-color map of Indian Wells Valley and surrounding points of interest, as well as a detailed street map of residential and business areas of Ridgecrest, China Lake and Inyokern, has been published by the Ridgecrest Chamber of Commerce and is now available to the public.

Copies of the map, priced at \$1 each, can be purchased at the Ridgecrest C of C office, and at various business places in Ridgecrest and Inyokern.

The map also includes an index of streets and their locations.

U.S. Government Printing Office: 1979—No. 1000

From: \_\_\_\_\_

To: \_\_\_\_\_

PLACE  
STAMP  
HERE

## Substantial gain reported at end of CFC 2nd week

The Naval Weapons Center's Combined Federal Campaign made substantial progress in the second week of this year's drive.

The CFC thermometer at the main gate jumped from \$38,500 to \$90,500 from contributions received as of last Friday, Oct. 26.

Today is the official closing date for the campaign; \$29,500 more is needed to reach the \$120,000 goal. Although late donations will be accepted, it is hoped that all possible contributions have been collected.

Cdr. Gordon Carlburg and Dr. Ed Royce, CFC co-chairmen, emphasized that cash donations may be made now, or payroll

### COMBINED FEDERAL CAMPAIGN Percentage of Participation as of Friday, Oct. 26, 1979 Total amount: \$90,500

Code 00	03	06	08	09	12	21
Pct. 37	73	46	48	20	77	49
Code 24	25	26	31	32	33	34
Pct. 37	72	21	39	30	50	47
Code 35	36	38	39	61	62	64
Pct. 34	36	53	19	46	18	94
Code 93/94	95	96	97	VX-5		
Pct. 67	45	0	80	41		

deductions may be authorized to begin next January by completing the appropriate section on the second copy of the pledge card.

The many organizations that benefit from the Combined Federal Campaign are (Continued on Page 3)

## China Lakers cited for major effort in defense of law suit following railroad yard fire, explosions

Congratulations were extended recently by Capt. William B. Haff, NWC Commander, and Bob Hillyer, Technical Director, to a sizable group of Naval Weapons Center employees who were part of a team that assisted the U.S. Attorney's office in the successful defense of a suit brought against the U.S. Government by the Southern Pacific Railroad Co.

For their part in this effort, an Award of Merit for Group Achievement was presented to more than 40 Centerites who played significant roles in this endeavor.

The suit was filed in the aftermath of a fire and explosions that occurred on the morning of April 28, 1973, in the railroad yard at Roseville, Calif. Not only were 18 boxcars — each of which contained 336 Mk 81 bombs (Tritonal) — destroyed, but approximately 300 additional boxcars were demolished.

A suit for approximately \$40 million was filed against the U.S. government by the Southern Pacific Railroad and the court trial started on Nov. 7, 1977. Word was received recently from the Office of the U.S. Attorney handling the defense that a Federal judge had ruled against allegations made by the railroad company that the bombs were the cause of the fire.

**Public Confidence at Stake**  
At issue, NWC ordnance experts feel, was public confidence in U.S. ordnance, and it was proven by the U.S. Attorney in defending the government against the Southern Pacific Railroad Co. suit that the Navy does have quality ordnance, and it isn't just by accident.

More than 400 NWC personnel contributed in different ways to the decision reached by the judge in this matter, but the team leaders were Dr. Taylor Joyner, head of the Explosives Formulation Branch (Code 3264) in the Ordnance Systems Department's Conventional Weapons Division, and Jack Pakulak, a senior scientist in Code

# nwc rocketeer

## Awards presented to two air conditioning mechanics for energy conservation efforts

Naval Weapons Center  
China Lake  
California

November 2, 1979

Vol. XXXIV, No. 44



**APPRECIATION EXPRESSED** — Warren Ellingson (l.) watches happily as Marvin Hunter is congratulated by Capt. W. B. Haff, NWC Commander, for the special award received by Hunter and Ellingson for their energy conservation efforts. The two men, who are air conditioning mechanics, manually controlled the dual-duct system in Michelson Laboratory in such a way that nearly a million kilowatt hours will be saved annually. — Photo by Ron Allen

Capt. W. B. Haff, NWC Commander, presented Special Act Awards to Marvin Hunter and Warren Ellingson at the Commander's meeting on Monday morning. The two men, who are air conditioning mechanics in Michelson Laboratory, were recognized for their contribution to the Center's energy conservation effort.

The award consisted of a certificate and a check for \$935 to be divided between them; this represents a portion of the \$46,600 which will be saved by NWC on its utility bill annually through their efforts.

When Capt. Haff presented the award to Hunter and Ellingson, he added that the Center was proud of their efforts, and that he was sure that President Carter would also be.

### Nominees for Presidential Letter

He added that both men have been nominated for a Presidential letter of commendation.

(The Presidential letter of commendation was established about a year ago to honor Federal employees who have been responsible for an invention, a suggestion, or an achievement that will save the government more than \$5,000 in the first year of its implementation.)

Capt. Louis P. Aldana, NWC Vice Commander, and Capt. Ives, Public Works Officer, added their congratulations and appreciation for these significant conservation achievements.

Financial Savings—\$46,600

In the letter recommending Hunter and Ellingson for the award, Dr. Clifton E. Stine, Energy Conservation Officer for the Center, added that through their manual control of the expansive air conditioning system in Michelson Laboratory the working environment has been comfortably maintained, while energy consumption was reduced by nearly a million kilowatt hours, resulting in a financial saving of \$46,600 annually under current utility charges.

Both Hunter and Ellingson went to work in the Heating, Ventilation, and Air Conditioning Branch (now called Laboratory Maintenance), Code 26425, of the Public

(Continued on Page 5)

## Reduced operating costs of Michelson Lab basis for award

The sustained efficient management of the Michelson Laboratory complex by Dan Butler has resulted in substantial savings to the Center and an award for Butler.

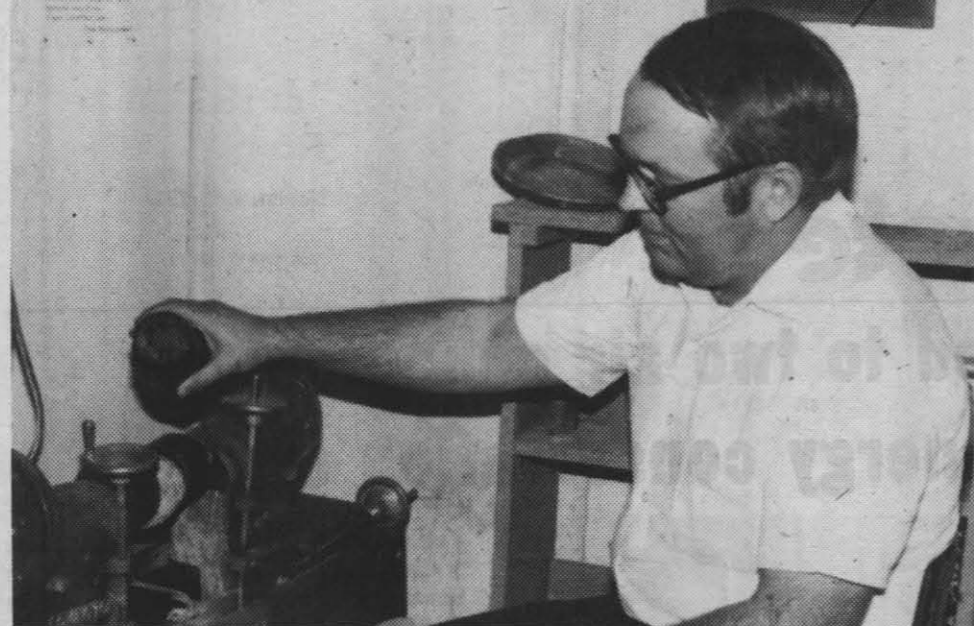
Butler was recently presented with a sustained superior performance award and check for \$1,000 in recognition of his labors in coordinating and maintaining the 500,000-sq. ft. laboratory, machine shop, and office facility in such a way that the overall operating cost was reduced without adverse effect to the working environment.

Energy saving programs administered under his supervision have included relamping work areas with more efficient lights, screening windows with reflective screens to reduce the heat load in the building, and reducing the steam load for the building.

According to the letter of recommendation for Butler's award written by Dr. Clifton E. Stine, NWC Energy Conservation Officer, the estimated dollar value for energy savings achieved by these various programs is \$60,000 per year.



**PERFORMANCE REWARDED** — Jack Russell (l.), head of the Engineering Department, and Dr. Cliff Stine, Energy Conservation Officer, congratulate Dan Butler on his sustained superior performance award. Butler received the award for his efficient management of the Michelson Laboratory complex of buildings.



SPECIAL FEATURE OF GEM, MINERAL SHOW — Dick Compton will be busy during both days of the Indian Wells Gem and Mineral Society's annual show demonstrating the patience and skill needed to grind a piece of onyx or other gemstone material down to a finely polished sphere.

### Annual Gem, Mineral Show slated this weekend at Community Center

The annual show presented each fall by the Indian Wells Gem and Mineral Society will be held tomorrow and Sunday at the Community Center. This event will be open to the public from 10 a.m. to 10 p.m. on Saturday and from 10 a.m. to 6 p.m. on Sunday.

All interested persons are invited to attend, and there is no admission charge. During the hours that the show is in progress, visitors will be admitted at gates to the Naval Weapons Center.

Weeks of preparation for the gem and mineral show have culminated in an event that will include displays and demonstrations, as well as field trips to local gem collecting areas, Frank Campanaro, chairman of this year's show, stated.

Among the more than 60 cases of highly prized work by local rockhounds will be some very fine mineral specimens from the collections of both novice and expert collectors.

Fine jewelry made by talented artisans in the local area also will be exhibited, as will several collections of fossils and Indian artifacts.

Ramona Orton, one of the local area's top silversmiths, will demonstrate her skill during the gem and mineral show. Ms. Orton has taught silversmithing and jewelry-making classes at Cerro Coso Community College for a number of years, and her jewelry work has been shown during annual shows held by the California Federation of Mineralogical Societies.

Another exhibit at the gem and mineral show that is expected to be very popular will be demonstrations by Walter Beck, an old timer from Randsburg, who will show the steps that are followed in wrestling alluvial gold from dry desert stream beds. Beck will be operating his dry washer in the patio of the Community Center on both Saturday and Sunday.

For those who have wondered how

polished spheres are made from gemstones, Dick Compton will demonstrate this technique, which starts with grinding by hand to get the approximate shape and then using a machine to continue the grinding until the article is ready for fine polishing.

Also in the lapidary line, Ed Albright will present a demonstration of the techniques of faceting — showing how rough gem material can be transformed into a mounting for a ring or bracelet, or strung on a necklace.

In addition, Roy Briscoe and his crew will be handy during the daylight hours of the gem and mineral show to operate the big diamond saws that are used to slice open rocks and geodes to expose their inner beauty.

Field trips are planned to Rainbow Ledge on Saturday to collect colorful jasp agate, and to Sheep Springs, where moss agate can be found, on Sunday. The latter outing should be attempted only in vehicles with fairly high clearance.

Caravans for field trips, which are scheduled to start at 11 a.m. each day, will leave from the Community Center parking lot.

For those unable to go on the field trips, there will be sales booths manned by Indian Wells Gem and Mineral Society members at which show patrons can purchase a wide variety of minerals, lapidary materials and jewelry. For the purchase price of an uncut geode, the buyer can have a member of the lapidary crew saw open the geode to reveal a bit of beauty never before seen by man.

A snack bar where cakes, pies, sandwiches and soft drinks will be sold will be in operation during the gem and mineral show.

Camping will be available to out-of-town visitors for a small fee at the Desert Empire Fairgrounds in Ridgecrest. For further information about camper hookups or other details about the gem and mineral show, interested persons can call Campanaro, the chairman, at 446-2349.

### 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. 2049. 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 096 or 097). Advertising positions 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.

Clerk Typist, GS-322-3/4, PD No. 7812004N, Code 2122 — This is a temporary position not to exceed Sept. 1, 1980, and is located in the Telephone Branch, Communications Division, Military Administration Department. Incumbent maintains telephone/radio/circuit records; reviews and verifies radio contract; updates and corrects cable books; operates PABX switchboard and IBM-054 equipment. Job Relevant Criteria: Ability to type rapidly and accurately; knowledge of MAG II typewriter operation; ability to file. Library Aid, GS-1411-3, or Library Technician, GS-1411-4, PD No. 475901N, Code 3434 — This position is located in the Description 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 analyze information and draw sound conclusions; ability to work with accuracy; ability to learn library filing procedures. Promotion potential to GS-5. Promotion not guaranteed.

File applications for the above with Linda Bego, Bldg. 34, Rm. 208, Ph. 3118.

Contract Administrator, GS-1102-11, PD No. 7825032E, Code 2225 — This position is located in the Contract Negotiation Branch of the Procurement Division, Supply Department. The incumbent is responsible for the logistic, financial, technical and security requirements applicable to the purchase of materials or services covered by the contract; duties include negotiation and processing of contract modifications, establishment and monitoring of suspense dates, of contract modifications, establishment and monitoring of suspense dates, follow-up on delayed delivery, processing scope changes, contracts, default action and contract termination. Job Relevant Criteria: Knowledge of Defense Acquisition Regulations (DARs); knowledge of contract modification and termination actions; ability to deal effectively with a wide variety of people; ability to communicate effectively both orally and in writing.

File applications for the above with Susie Cross, Bldg. 34, Rm. 210, Ph. 2271.

Equipment Mechanic, WG-5352-8/10, JD No. 373, Code 26414 — Installs, overhauls, repairs, maintains, "alters as needed," machine shop equipment, power plant equipment, large fresh water pumping equipment, range testing equipment, cranes and hoists, high and low pressure pneumatic systems and equipment, hydraulic systems and equipment, hydraulic-pneumatic systems and equipment, sewage disposal plant equipment, steam engines, steam cleaners, internal combustion engines, also controls for above items. Job Relevant Criteria: Ability to install, repair, maintain, and test all mechanical equipment; ability to read and interpret blueprints, sketches, etc.; ability to troubleshoot pertinent equipment; ability to use hand tools and measuring devices; ability to do the work of the position without more than normal supervision. This is a correction of advertisements run 10-26-79 for an Equipment Mechanic, WG-5352-10, JD No. 373 and Equipment Mechanic, WG-5352-8, JD No. 330. Previous applicants need not apply.

Engineering Technician, GS-802-10, PD No. 7926059, Code 244 — This position is located in the Geothermal Operations Branch, Geothermal Utilization Division, Public Works Department. The incumbent will provide highly skilled technical assistance to the members of the division by preparing and conducting scientific experiments and field tests involving explosive charges. The incumbent will work closely with the branch supervisor and other scientists in determining and evaluating possible approaches to various experiments. The incumbent will design and develop mechanically, pneumatically, hydraulically, electrically, and explosively actuated devices that are not commercially available. Job Relevant Criteria: Knowledge of scientific systems; knowledge of ordnance disposal techniques; ability to use initiative and judgment in using tools and equipment of the welding and sheetmetal mechanic trades. Position has promotion potential to GS-11. Applicants who previously applied for this position during the week of 10-26-79 need not reapply.

Air Conditioning Equipment Mechanic, WG-5306-11, JD No. 493N, Code 26453 — This position is located in the Range Shop, Field Support and Utilities Branch, Maintenance-Utilities Division, Public Works Department. This is one of several identical positions in which the incumbents install, maintain, and repair refrigeration and air conditioning equipment and components used in providing refrigeration and air conditioning for living quarters, offices, commercial, industrial, and lo-temp test units for environmental control. Equipment includes refrigeration units, refrigerated air conditioning, humidifiers, evaporative air conditioning, gas, steam, and hot water heating units. Job Relevant Criteria: Ability to do the work of the position without more than normal supervision; ability to read and interpret blueprints, sketches, etc.; ability to troubleshoot pertinent equipment; ability to use tools and measuring instruments; ability to install, repair, or maintain pertinent equipment.

File applications for the above with Lucy Lambert, Bldg. 34, Rm. 212, Ph. 2032.

Supervisory Electronics Engineer/Supervisory Physicist, GS-855/1310-14, PD No. 793312E, Code 35401 — An incumbent will be the associate head of the Microwave Division, Electronic Warfare Department. The division is responsible for radar threat simulation development, electronic warfare countermeasures, special electronic warfare projects and signal exploitation. An incumbent will assist the division head in the full range of his responsibilities of technical and administrative managing the work of the organization. This includes supervisory responsibility with respect to the division's employees, participation in the overall planning and direction of the division's efforts and providing consultation as an expert in EW systems and techniques (air and non-air), threat systems, signal exploitation and intelligence regarding special areas. Job Relevant

Criteria: Significant EW experience to include analysis, design, test and evaluation; experience in managing projects/programs where planning and control was demonstrated; experience as an effective supervisor of scientific/engineering personnel; experience that would indicate recognition as an "expert" in EW techniques and systems. Administrative Officer, GS-341-11 or Administrative Assistant, GS-341-7/9, PD No. 7825084E, Code 35402 — This position is that of division administrative officer for the Microwave Division, Electronic Warfare Department. The division develops replicas of foreign threat radar systems, conducts analysis, applied research, design and development of EW and reconnaissance related systems and technology. The division has four branches, a staff of 70, 40-60 active projects which range in size from \$K to 2.5M, annual budget is \$5 million. The incumbent is responsible for the administrative functions of the division with particular emphasis on financial management. Promotion potential to GS-11. Job Relevant Criteria: Knowledge of overall NWC mission/goals/general technical aspects; comprehensive knowledge of government fiscal processes, internal accounting, with extensive working knowledge of NWC type financial systems; ability to direct, simultaneously, a variety of unrelated functions; Skill in processing, analyzing and interpreting quantitative data; have a high degree of adaptability and ability to maintain good interpersonal relationships; knowledge of administrative processes involved in security, personnel, space management, major procurements. Electronics Engineer/Physicist, GS-855/1310-12, PD No. 7935120E, Code 3543 — This position is located in the Countermeasures Branch, Microwave Development Division, Electronic Warfare Department. An incumbent will be responsible for ascertaining the effects of radar signal processing in radar targets, clutter and electronic countermeasures signals which are used in radar systems. The types of signal processors include: Moving Target Indicator (MTI), pulse doppler, CW doppler, frequency agility and polarization systems. Job Relevant Criteria: Experience in radar, radar video processing and countermeasures systems design, hardware construction and field testing. Supervisory Electronics Engineer/Supervisory Physicist, GS-855/1310-13, PD No. 7935116E, Code 3544 — The filling of this position is subject to approval of its classification by NCCP-WFD. This position is head of the Signal Exploitation Branch, Microwave Development Division, Electronic Warfare Department. The branch is responsible for conducting exploratory and advanced development in radar techniques, electronic warfare and unique projects critical to the defensive/offensive posture of the U.S. The work is associated with the development of special electronic techniques, sensors, signal processors and displays for use in intelligence. Other projects include development of active countermeasure devices directed at tri-service use. Job Relevant Criteria: Broad experience in electronic R & D; experience in radar system design, test and evaluation; experience in project management that involves contract management responsibility; thorough knowledge of active radar seekers, microwave theory and measurement and digital and analog circuit design. Electronics Technician, GS-856-11, PD No. 7935119, Code 3554 — Position is located at Sea Site, Echo Range, in the

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### DIVINE SERVICES

PROTESTANT	
Sunday Worship Service	1000
Sunday School	0835
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	
Contact Chaplain's Office for specifics.	
JEWISH SERVICES	
EASTWING—ALL FAITH CHAPEL	
Sabbath Services every Friday	1930
UNITARIANS	
CHAPEL ANNEX 95	
Sunday	Services—(Sept-May) 1930

### Burros pound Rebels 27-14...

(Continued from Page 6) two plays and ended up calling a quick kick on third down from their own 20 yd. line in order to avoid being pushed back even further.

Before the half time intermission, the BHS varsity mustered one more scoring threat by moving the ball from their own 30 to the Quartz Hill 34 yd. line. At that point, however, a blocked pass and a 5 yd. delay of game penalty stalled this drive. Once again McDowell sparked this offensive thrust with a 19 yd. run to the Rebels' 34.

Early in the third quarter, the Quartz Hill team got its act together and moved swiftly from its own 10 yd. line to the BHS end zone.

A pass interference call against Burroughs that gave the Rebels a first down on their own 23 igitned this scoring drive. From there, Mark Perez found



—Photo by PHAA Terence Cole FAMILIAR SIGHT — Leotis McDowell, speedy halfback for the BHS varsity, turns it on after getting past the line of scrimmage and goes for a long gain in the Burroughs vs. Quartz Hill varsity football game. Chasing McDowell, who is cutting towards the sideline, is Mike Nunnelee, defensive back for the Rebels. McDowell gained 168 yds. on 17 carries and scored the game's first touchdown as he led the Burros to a 27-14 win over Quartz Hill in last Friday night's Homecoming tilt.

running room on two successive plays that gained 24 yds. and a first down on the Quartz Hill 47. Quarterback Valencia then picked up 10 more yds. to the BHS 43, and (on the next play) handed off to Perez, who romped down the right sideline for a touchdown. Perez also rammed the ball over from 2 yds. out for a 2-pt. effort that made the score Burroughs 21, Quartz Hill 8 with a little less than half of the third quarter still remaining to play.

The score remained 21-8 in favor of Burroughs until shortly after the start of the fourth period of play. The final BHS tally of the game was set up by a pass interception by Rockwell, stellar tackle for Burroughs, who rambled some 25 yds. with the ball to the Quartz Hill 10. Two plays later quarterback Drake pitched a scoring strike to Curtis Edmondson in the end zone. The try for the PAT on a kick by Bell was wide of the uprights and the Burros led by a margin of 27-8.

(Continued from Page 6) Jeremy Osburn early in the game. Although most of the game was played in the Express end of the field, the contest between the Express and Rowdies ended in a scoreless tie. One shot at the Express goal was close enough to glance off the goalpost, but didn't go into the net. Goalies David Shumway and Steven wage starred in this game for the Express — a team led on offense by Jonathan Bland and Steve Mills. On offense, Will Freeman led the Rowdies, and Jeff Jones was the team's top defensive player.

On two occasions during their 2-2 game with the Chiefs, the Sockers took the lead on goals by Mark Frisbee, but after each tally the Chiefs battled back to tie the game — first on a goal by Danny Shotwell and later in the contest on a score by Tim Matson. Standout players on defense in this contest were Mark Nemeth of the Chiefs and Matt Duncan of the Sockers.

Quartz Hill was stopped at its own 14 on the return of a long kickoff by Bell, but a well-executed dippy doodle play then produced the longest scoring play of the game.

After a crack at the line failed to gain, quarterback Valencia handed off to a halfback, who started to run and then flipped the ball back to Valencia. The latter whipped a long pass to near midfield where Scott Edwards, an end, was running full speed in the clear 10 yds. beyond the nearest Burroughs defender.

Edwards caught the ball and continued on untouched to the end zone for an 86-yd. scoring play. The try for two points on a run was stopped short of the goal line and the score remained at 27 to 14 in favor of Burroughs.

Inside Kick Misfires An attempted inside kick by Quartz Hill in order to regain possession of the ball misfired, and the Burros once again were in good field position on the Rebels 48. Two first downs on runs by Waters moved the ball to the Quartz Hill 23, but three plays later Chris Perry of Quartz Hill recovered a fumble by quarterback Drake to blunt this scoring threat.

With time running out in the game, it was all over for Quartz Hill as the Burros settled back to successfully defend against passes and held the visitors short of a first down on their own 45.

Regaining possession of the ball for the final time, the Burros ran out the clock and the game ended with the local team on top by a final score of 27-14.



HOMECOMING COURT — Coleen Burke (center), who has been active as a member of the City of Ridgecrest's Tumbleweed team and the Golden League championship gymnastic team at Burroughs, reigned as queen over last Friday night's Homecoming football game between the Burros and Rebels from Quartz Hill, and at the Homecoming dance the following evening. Miss Burko is flanked by other members of the Homecoming court — Princesses Leah Pinto (at right) and Sharyl McCullough. — Photo by PHAA Terence Cole

### Promotional Opportunities

(Continued from Page 2)

Data Systems Branch, Countermeasures Division, Electronic Warfare Department. Incumbent is responsible for maintenance, operation, modification, and reconfiguration of real-time data gathering and displaying systems including Univac 1230 computers, video record/playback systems, and communications systems such as intercom, UHF, and FM radios. Incumbent performs these operations to meet special test requirements, then documents the systems changes and analyzes the test data for validity. Job Relevant Criteria: Knowledge of electronic test equipment (oscilloscopes, volt ohm meters, signal generators, and digital logic analyzers, etc.); ability to work from electronic or digital schematics; ability to maintain and operate real-time digital data recording and display systems; ability to work with all levels of personnel; ability to communicate effectively both orally and in writing. File applications for the above with Janet Thomas, Bldg. 34, Rm. 204, Ph. 2577.

Electronics Engineer, GS-855-12, PD No. 7936182E, Code 3431 — Position is located in the Guidance Branch, Product Design Division, Engineering Department. The purpose of this position is to provide analysis, development, and evaluation of automatic test systems, built-in-test techniques, and weapon system testability design. Job Relevant Criteria: Knowledge of computer science principles and their application to the design and development of engineering duties concerned with the application of software to ATE, system interface, and BIT techniques; detailed knowledge of hardware and software used in ATE; knowledge of principles and practices associated with production engineering programs; and ability to negotiate with sponsor and private industry personnel. Quality Assurance Specialist, GS-197-11, PD No. 7936152E, Code 3482 — Position is located in the Quality Assurance Branch, Product Assurance Division, Engineering Department. Incumbent participates in the review of contractual quality assurance requirements of complex items for various weapon systems. This responsibility includes reviewing contractors' procedures, technical documentation, and results of tests, failure reports, etc., to insure that DoD, Navy, and NWC quality assurance procedures are followed and, thus, quality products are produced. Travel to contractor facilities and other government activities is required. Job Relevant Criteria: In-depth knowledge of the environment associated with production/manufacture of complex weapon systems; ability to communicate effectively orally and in writing for the purpose of presenting technical data to engineering personnel, contractors, and program management personnel; ability to perform quality reviews of contractor production facilities. Promotion potential to GS-12.

Supervisory Reliability Engineer, GS-801-12, PD No. 7936184E, Code 3488 — (2 vacancies) Positions are located in the Reliability/Maintainability Branch, Product Assurance Division, Engineering Department. Incumbents will technically and administratively supervise the efforts of a group of engineers and QA specialists responsible for providing reliability/maintainability support for design, development, and production of assigned weapon systems programs. These are developmental positions wherein the incumbents will receive on-the-job and formal training to develop the skills necessary to perform the full range of supervisory duties inherent in the full performance level (PD No. 7936136E). Job Relevant Criteria: Ability to technically and administratively supervise the efforts of 6-10 engineers and QA specialists; in-depth knowledge of reliability engineering concepts, practices, and requirements; ability to communicate effectively orally and in writing with design, sponsor, and contractor personnel; working knowledge of applicable material acquisition policies and procedures. Promotion potential to GS-13.

File applications for the above with Marge Stanton, Bldg. 34, Rm. 206, Ph. 2925.

Secretary (Typing), GS-318-4, PD No. 7939088N, Code 3921 — This position is located in the Signal Processing and Control Branch, Weapons Development Division, Weapons Department. The incumbent types a variety of forms and correspondence; maintains personnel, accounting, and security files; writes routine memoranda; performs clerical receptionist duties and other functions as required. Job Relevant Criteria: Ability to perform a variety of clerical and secretarial functions; ability to type with speed and accuracy; knowledge of Navy correspondence format and procedures, and knowledge of correct English grammar and spelling. Previous applicants need not apply.

Supervisory Mathematician / Physicist, GS-1252 / 1310-12 or 13, PD No. 7939113E, Code 3922 — Missile Software Branch — (GS-13 subject to classification with WFD) This position is the branch head responsible for technical and administrative supervision of the branch, program management of experimental systems, system design and development, and documentation of branch projects. Performs, directs and advises on missile-related mathematical models. Assists in the validation of software designs. Coordinates efforts with other NWC groups, SYSCOMs, contractors, etc. Job Relevant Criteria: Ability to program in both assembly and compiler languages; knowledge of systems technology and programming constraints involving command and control interface with weapons, operators and detection sensors; experience monitoring contractor efforts; ability to communicate both orally and in writing; willingness to travel extensively (30-40 percent).

Secretary (Typing), GS-318-4 / 5, PD No. 7939114, Code 3923 — Position is located in the Special Projects Division, Weapons Department. Incumbent is secretary to the head of the division and gives secretarial support to the division. Includes reviewing incoming correspondence and taking proper action; i.e. getting signatures, returning for correction, informing affected personnel, etc.; performing final review of all electronic messages and travel packages for conformance to regulations; collecting and disseminating information; receiving and screening office and telephone callers; keeping supervisor's calendar; receiving and controlling classified material; making travel arrangements; scheduling conferences; typing/maintaining division files, etc. Job Relevant Criteria: Ability to type accurately and efficiently; ability to coordinate clerical staff; knowledge of clerical functions and office procedures; ability to deal with personnel of all levels; ability to use fact and judgment; ability to communicate effectively both orally and in writing.

Electronics Engineer, GS-855-9 / 11, PD No. 7939115, Code 3956 — This position is in the Monopulse Design and Evaluation Branch, RF Division, Weapons Department. The incumbent provides design, development, and analysis support for branch efforts in missile guidance system development. Job Relevant Criteria: Knowledge of stripline techniques, electro-magnetic areas of missile guidance engineering design, systems analysis and review, project planning/scheduling, and liaison with other R&D groups and contractors. Job Relevant Criteria: Experience in circuit design and analysis and in production engineering of the electronic portions of missile guidance systems; working knowledge of methods used to obtain and verify electronic systems reliability; negotiation and presentation skills. File applications for the above with Kitty Berry, Bldg. 34, Rm. 206, Ph. 7223.

Administrative Officer, GS-341-12, PD No. 7842022E, Code 4203 — This position is head of staff for the Range Department with primary responsibility for the establishment and direction of department-wide administrative policies and procedures. Incumbent performs planning for funds, manpower, space, equipment; reviews and analyzes department organizational structure and functions for efficiency; acts as administrative advisor to the department head and as liaison to personnel of other departments and activities. Job Relevant Criteria: Knowledge of personnel, finance, organization and management theory, administrative systems analysis and research methods; ability to exercise originality and initiative; skill in gaining acceptance of policies and programs; ability to coordinate diverse operations; ability to work with personnel at all levels; ability to communicate effectively, orally and in writing. Secretary (Typing), GS-318-4, PD No. 7942084N, Code 4221 — This position is located in the Range Department's Air Operations Branch. The incumbent screens visitors and incoming telephone calls. Prepares and edits correspondence submitted by personnel in the Branch. Responsible for proper format, address, correct distribution and security classification. Performs timekeeping duties, arranges conferences, maintains files. Job Relevant Criteria: Ability to get along with others; reliability and dependability; ability to type accurately and efficiently; knowledge of Navy correspondence format. Electronics Engineer, GS-855-11 or 12, PD No. 7942085N, Code 4242 — This position, located in the Telemetry Operations Branch, is that of a design engineer for the development and acquisition of digital and analog telemetry instrumentation. The incumbent is responsible for carrying out diversified technical assignments such as modernization of telemetry facilities, extending capability of existing equipment, design of digital interface equipment, etc. In short, the function of this position is one of a problem solver who studies, analyzes, and implements changes to make the telemetry operations function efficient and practical. Job Relevant Criteria: Knowledge of digital control interface concepts; electronics instrumentation design experience; ability to work well with others. File applications for the above with Bonnie Owens, Bldg. 34, Rm. 204, Ph. 2577.

Golf Course Superintendent / Manager, China Lake Golf Course, US-1601-10, PD No. 7955110 — Permanent full-time (Wednesday-Sunday), \$17,532 PA, plus benefits. — This is not a Civil Service position. Incumbent is responsible for the operations of the golf course and golf pro shop. These duties include: plans, organizes and supervises all phases of the operation of the grounds maintenance, resale shop, driving ranges, practice course and main course; prepares the budget; prepare long range planning; schedules and conducts tournaments; provides golf instructions; oversees resale operations, recruits and maintains personnel; maintains course; provides training for golf personnel; publicly; ex-officio member of Men's and Women's Golf Clubs; and determines and enforces rules. Qualifications: Incumbent must have the equivalent of an undergraduate degree in Agronomy or Business Administration plus three years experience which demonstrated a knowledge of overall golf course management and maintenance; or equivalent experience which demonstrated skills, abilities and knowledge in techniques in operating a financial establishment; how to plan budgets and daily routine accounting procedures; turf maintenance; use of insecticides; and irrigation techniques. This is a merit promotion position for current Code 089 non-appropriated employees only.

Recreation Aid, PS-018-02, PD No. 7455105, Code 0891 — Golf Pro Shop, permanent part-time (20-34 hours per week). This is not a Civil Service position. Incumbent schedules usage of facility and golf carts; assists patrons in purchases; collects dues and fees; and is responsible for certain cleaning functions. Qualifications: Experience as a sales clerk and ability to lift and carry 40 pounds. File applications for the above with Cheryl Hartley, Bldg. 21, Ph. 3387.

### The Rocketeer

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## Recreation Roundup

## Scrimmage set between NWC, college cagers

A scrimmage between the Cerro Coso Community College basketball team, coached by Bill Locke, and the NWC varsity cagers, under the direction of Chief John Smith, of VX-5, will be held tomorrow, starting at 9:30 a.m., at the Center gym.

Players on the NWC varsity squad are Skip McIntosh, Basil Robinson, Kenneth Gibson, Bob Bailey, Barry Adams, J. W. Spells, Mark Lehman, Derek Graves, Buzz Gibbs, Jud Neidigh, and James Carr. The team manager is B. J. Moses.

Taking the floor for the Cerro Coso Coyotes will be William Mitchell, Jim Bowen, Curtis Owens, John Hall, Anthony Jackson, Daniel Chavis, Ronald Morgan, and David Ray.

## MDISL Competition

The Naval Weapons Center was represented last weekend by three distance runners in the Mojave Desert Inter-Service League's 10 kilometer run held at Norton Air Force Base in San Bernardino.

In this event, which is part of the MDISL lifetime sports program, Dave Rugg placed second in the senior men's division for runners 40 years of age and over.

For his efforts, Rugg, who is a data manager in the Engineering Department's Technical Data Division, received a medal.

## Intramural Basketball

An organizational meeting for managers or coaches interested in entering a team in the 1978-79 China Lake Intramural Basketball League will be held this evening at 5 o'clock in the Joshua Room of the Community Center.

Forms on which team rosters can be listed can be obtained now at the gym office. Plans call for separating the teams into one of three divisions for the Intramural Basketball League season that is scheduled to begin on or about Nov. 13.

## Military marksmen to compete in next Captain's Cup event

Teams representing NWC Blue (Code 612), NWC Gold and VX-5 will vie in Captain's Cup (formerly Admiral's Cup) marksmanship competition next week.

A practice shoot is planned Monday at the Sierra Gun Club range. It will start at 9 a.m. for prospective trap and skeet shoot entrants who will be firing 12 gauge shotguns, and at 12 noon for pistol marksmen using .22 caliber hand guns.

Those selected for the various teams following the Monday practice session will again demonstrate their skill in the Captain's Cup marksmanship match that will follow on Wednesday, Nov. 7, starting at 9 a.m.

Military personnel interested in additional information about this event can contact the following team representatives: John Kennard, NWC Ext. 5267, NWC Gold; Roy Tefft, NWC Ext. 5496, NWC Blue; and Mike Arms, NWC Ext. 5332, VX-5.

Preparations also are being made for Captain's Cup flag football games that will be played later this month. All games will be played at Schoeffel Field, and will start at 6 p.m.

The schedule is as follows: VX-5 vs. NWC Gold on Nov. 13, NWC Blue vs. NWC Gold on Nov. 14, and NWC Blue vs. VX-5 on Nov. 15.

## Burros varsity, in top form, defeats Quartz Hill 27-14

A Burroughs High School varsity football team, playing the kind of a game its fans, coaches, and, for that matter, the players themselves had believed was possible, rudely shocked the visiting Quartz Hill Rebels by handing them a 27-14 loss last Friday night at the BHS athletic field.

It was Homecoming, and the gridiron victories for both the varsity and the sophomores, who ran roughshod over their counterparts from Quartz Hill 28-8, added to the festive air of this annual event.

Tonight the Burros will play a non-league game against Pacifica High in Garden Grove before resuming Golden League action on Nov. 9 at Hart High School, the pre-season favorite to win the league championship. The Burroughs vs. Pacifica varsity contest, which will get underway at 7:30 p.m., will be preceded by a sophomore tilt starting at 4:30 o'clock.

The domination by the Burros varsity

football team over the visitors from Quartz Hill, who were previously undefeated in league competition, is borne out by the fact that the Burros scored three touchdowns (lost a fourth on fumble at the Rebels 5-yd. line) and allowed the visitors just one first down in the entire first half. The jubilant BHS varsity team headed for the locker room at halftime with a 21-0 lead.

It took the BHS varsity less than 5 min. of playing time to get on the scoreboard on a 1-yd. plunge by Leotis McDowell. Greg Bell added the PAT on a kick and the Rebels, who hadn't even touched the ball, were trailing 7-0.

Big plays in this initial scoring drive were a pass from quarterback Richi Drake to Albert Pinchem that gained 20 yards and a first down on the Quartz Hill 22. Then, on third down two yards short of a first down, Drake rifled another pass to Pinchem, who caught the ball and was stopped at the 2-yd.

line. Throughout the season, the BHS varsity football team's defense has played well, and the players on the defensive unit outdid themselves against Quartz Hill.

Tight defense stifled the Rebels' attack when the visitors did get their hands on the ball following the first Burroughs touchdown, and Chuck Kinne, a senior guard, broke through to partially block a fourth down punt.

The Burros ended up with the ball on the Quartz Hill 35 and five plays later Mike Waters blasted through the center of the line for 9 yds. and the second touchdown of the night for the Burros.

On this scoring drive, McDowell, who had one of his best nights ever as a running back for Burroughs, kept the home team rolling with a 31-yd. jaunt that more than made up for a 10 yd. loss by Quarterback Drake, who was cut down back of the line of scrimmage while trying to find a receiver open on pass play.

## Burros Score Again

From the Quartz Hill 14, where McDowell was finally stopped, Drake gained 5 on a quarterback keeper before handing off to Waters, who hit paydirt from 9 yds. out. Once again Bell booted the PAT and Burroughs led 14-0 with 3½ min. left to play in the first quarter.

Once again in possession of the ball after the second TD by Burroughs, Rick Valencia, the Quartz Hill quarterback, was sacked for losses totaling 10 yds. on tackles by Jeff Rudd and Kevin Merrill on defense for the Burros. The visitors (again forced to punt on fourth down) ended up with minus yardage to show for their efforts on offense in the first quarter.

A short punt by the Rebels turned the ball over to Burroughs on the visitors' 37, and immediately the Quartz Hill team was in trouble as McDowell sprinted 28 yards for a first down on the 9. A fumble that was recovered by Quartz Hill on its own 5 yd. line prevented what could well have been another touchdown for Burroughs in the first quarter.

## Offense Continues To Roll

As the second period of play got underway, McDowell broke loose again—this time for 48 yds. and a first down on the Rebels 4 yd. line—and Waters carried carried it over from there on the next play.

Bell's third successful try for the PAT was good, giving Burroughs a 21-0 with 8 min. left to play in the first half.

That was all of the scoring in the first half for the Burros, but the defense for the local team continued to make life miserable for the Rebels who, on one series lost 15 yds. on

(Continued on Page 7)

## Lead in Premier League grows to 3 games for The Place

A three-game sweep over the Buggy Bath keglers enabled bowlers representing The Place to increase their first place lead to three games during Monday night's Premier League action at Hall Memorial Lanes.

The Western Columbia team also pounded the pins for a 3-0 win over Clancey's Claim Co. to move into sole possession of second place in the Premier League.

Bowlers for Western Columbia came up with high team game (1,048) and high team series (2,973) for the night.

Barney Brush was the league's top individual bowler with a three game total of 651. Others who were over the 600 series mark were Kim Duckett (635), Warren Turnbaugh (634), Jim Kincheloe and Pat Nalley (616), and Dave Stein (608). Nalley rolled a triple 200 series, as he had single game scores of 215, 200, and 201.

Those with single game scores higher than 220 were Brush (241), Duckett (236), Turnbaugh (227), Dick Reynore (226), Hut Zimmerman (224), and Jim Dillon and Ed Donahue (222).



—Photo by PHAA Terence Hill  
RUNNING PLAY DEVELOPS — Mark Perez (30), shifty runner for the Quartz Hill Rebels, tries to pick up a gain through the Burros varsity line as this play begins to develop. Blockers leading the way for the ball carrier are Dan Crosin (83), right half, and Rick Valencia (19), quarterback for the Rebels. Perez tallied one of two touchdowns for Quartz Hill on a 43-yd. run.

## Battle for lead remains close in all three divisions of Youth Center Soccer League

With the fifth weekend of play in the fall season of Youth Center Soccer League competition now in the books, tight races for the lead have developed in all three divisions of the league.

In the National Division (for 5th and 6th graders) three of the five teams are tied for the lead following last Saturday's 3-0 win by the Tornados over the previously undefeated Sounders. The third team locked in a tie for the lead in the National Division is the Whitecaps, who drubbed the Surf, 5-0, this past Saturday.

The Sounders, previously unbeaten and unscored on, were surprised by a fired-up Tornados team, whose players parlayed good passing, a patient offense and aggressive defense into a shutout win over the Sounders, 3-0.

Chris Turner tallied all three goals for the Tornados, with assists from Kevin Featherston, while Pete Hueber and Featherston shared the goalie assignment for the victors.

The Whitecaps' 5-0 win over the Surf came on goals by Roger Smith (2), Eric Frisbee (2), and Billy Hugo. Assists in moving the ball into scoring position were provided by John Andrews and Brian Hayes. The defense for the Whitecaps was led by Kenny Fite, and Stefan Humphrey went all the way as goalie.

The eight-team American Division (for 3rd and 4th graders) also is tightly bunched in the standings, following last Saturday's contests, although the Drillers (4-1 victors over the Lancers), and the Timbers (who shut out the Blizzard 5-0) have surged to the top.

Last Saturday's 2-1 win by the Sting, a team that is improving, knocked the Rogues out of a tie for the American Division lead, while the Strikers are in the middle of the pack after their 2-1 win over the Hurricanes.

The Driller forwards found that passing the ball pays off as they converted open shots to points in their 4-1 win over the Lancers. Bobby Hudson and David Tetmeyer did the scoring for the Drillers, and

goalie Steve Dargo was the key to their defense as he stopped several good scoring opportunities by the Lancers, including a penalty kick.

Matt Mechtenberg scored the lone goal for the Lancers, aided by a good pass from Barrie Riddoch.

The Timbers handled the Blizzard with ease — getting 3 goals by Matt Ziegler and one more by Joe Lloyd. The ball was accidentally booted by defenders for the Blizzard into their own net for the game's final goal. The Timbers' flawless defense was led by Bill Corley and Chris Wilke-Heyden.

Last Saturday's 2-1 victory by the Sting over the Rogues was the second win in a row for the Sting. Both goals for the winners were tallied in the second half by Craig Rindt, with assists credited to Tony Wood and Dan Flores.

The Rogues led 1-0 at the half as the result of a goal scored by Jonathan Miller on an assist from Wayne Shadd.

The Strikers also topped the Hurricanes 2-1 on goals by Chris Johnson. Standouts on defense for the winners were Karlanne Holmes and John Patton.

The lone goal for the Hurricanes, who have now lost four straight games by a single point, was tallied by Phillip Walker. In the Pacific Division (for 1st and 2nd graders) the Earthquakes, who last Saturday were defeated 5-1 by the Fury, have a half-game lead over three other teams in their division.

During two other Pacific Division games played Oct. 27, the Rowdies and Express battled to a scoreless tie, while the game between the Chiefs and Sockers ended in a 2-2 draw.

Jacob Jones kicked four goals in the 5-1 win by the Fury over the Earthquakes. Armando Valdevea chalked up the fifth tally and also was credited with an assist on one of the goals by Jones, as was Nolan Brown.

The Earthquakes' only goal was tallied by

(Continued on Page 7)

## Energy Awareness Week poster contest winner gets NWC tour

Kathy Dibble, a fourth grade student at Vieweg Basic School, was the grand prize winner in the poster contest conducted in observance of Navy Energy Awareness Week.

Capt. William B. Haff, NWC Commander, presented the fourth grader with an NWC plaque honoring her achievement during a school assembly held last Friday afternoon. She also received a certificate of merit for her poster in the Energy Program Office, which sponsored the contest for the Indian Wells Valley's school children.

Kathy was joined by her parents, Mr. and Mrs. John Dibble, her teacher, Mrs. Judy Matlock, and her principal, Mrs. Helen Crosley, in a tour of some of the energy projects at the Center.

Projects visited included the solar heating and cooling system installed in the building housing the Naval Regional Medical Center medical and dental branch clinics, the Low Energy Structures test cell,

and the trash-to-gasoline pilot line. The Dibbles were also given a demonstration of how solar cells in use at NWC function.

Other poster award winners were Tony Taylor, Inyokern School, for first grade; Mark Hoppus, High Desert Seventh Day Adventist School, second grade; Turi Lowen, Groves School, third grade; Gabriela Garcia, Saint Ann's School, fifth grade; Sam Greenmun, Vieweg, sixth grade; and Ronaldo Hartman, Richmond School, for Special Education.

Personnel of the Energy Program Office, who judged the 598 posters submitted, noted that they had a difficult time selecting the winners because of the ingenuity and quality of the work displayed by the young artists.

The posters will be on display at the Community Center until Nov. 9. The best posters will be sent to the Navy Energy Office in Washington, D.C., as entries in the National Navy Energy Poster Contest.



READY FOR TEST FLIGHT — Squadron Leader Alan Thorpe (second from left) checks last-minute details before takeoff of a British Buccaneer aircraft on a low level flight test in the Randsburg Wash area of the Naval Weapons Center ranges. With him are Flight Lt. Pete Chandler (at right), the pilot; Flight Lt. Ron Wilder (in center), the navigator; and looking on left Flight Lt. Peter Rolfe.

## British Buccaneers swoop in to conduct low level flight tests

The Buccaneers are here — two of them at least — from the British Royal Air Force base at Honington, Suffolk, England (about 35 miles from Cambridge).

Squadron Leader Alan Thorpe and a contingent of 32 other RAF pilots, crew members, aircraft ground crew and maintenance personnel, arrived at China Lake on Oct. 23.

The purpose of their stay, which (if all goes well) should be concluded on Nov. 7, is to conduct a series of low level flight tests in the Randsburg Wash area of the Naval Weapons Center ranges.

According to Squadron Leader Thorpe, the Buccaneer has a role similar to that of the U.S. Navy's A-6 Intruder. At one time it was operated off aircraft carriers, but since the British no longer have aircraft carriers in their defense arsenal, it is now a land-based aircraft.

The two-seater aircraft was able to carry the pilots and navigators of the two aircraft here from their home air base, while the remaining 29 RAF personnel who made the trip were flown in transport-type aircraft that also carried the ground equipment they are using.

The Buccaneer aircraft had tanker support in their flight across the Atlantic Ocean, and landed at Goose Bay, a Canadian Air Force base, which was their first stop in North America.

Total flight time from their home base at Honington to China Lake was about 12 hours. Also included was a stop for refueling at Offutt Air Force Base in Nebraska.

## CFC report. . .

(Continued from Page 1)

described in a brochure that accompanied the pledge cards, and the co-chairmen wish to assure contributors that the money designated on the pledge cards is paid directly to the designated agencies or organizations within those agencies.

Anyone who has not received a pledge card and brochure is urged to contact a division solicitor or department representative and complete the pledge card now.



GRAND PRIZE AWARDED — Capt. W. B. Haff, NWC Commander, presents Kathy Dibble a certificate and an NWC plaque for her grand prize winning poster in the Energy Awareness Week poster contest. Kathy, a fourth grade student at Vieweg Basic School, was one of 598 local school children who participated in the contest.

—Photo by PHAA Terence Cole

## Disposable butane cigaret lighters can be dangerous

The potential hazards of disposable butane cigaret or pipe lighters have been brought to light by two fatal accidents involving Union Pacific Railroad employees.

According to C. E. Wilhite, acting Associate Director for the Safety in the NWC Safety and Security Department, the fatal accidents occurred in welding areas.

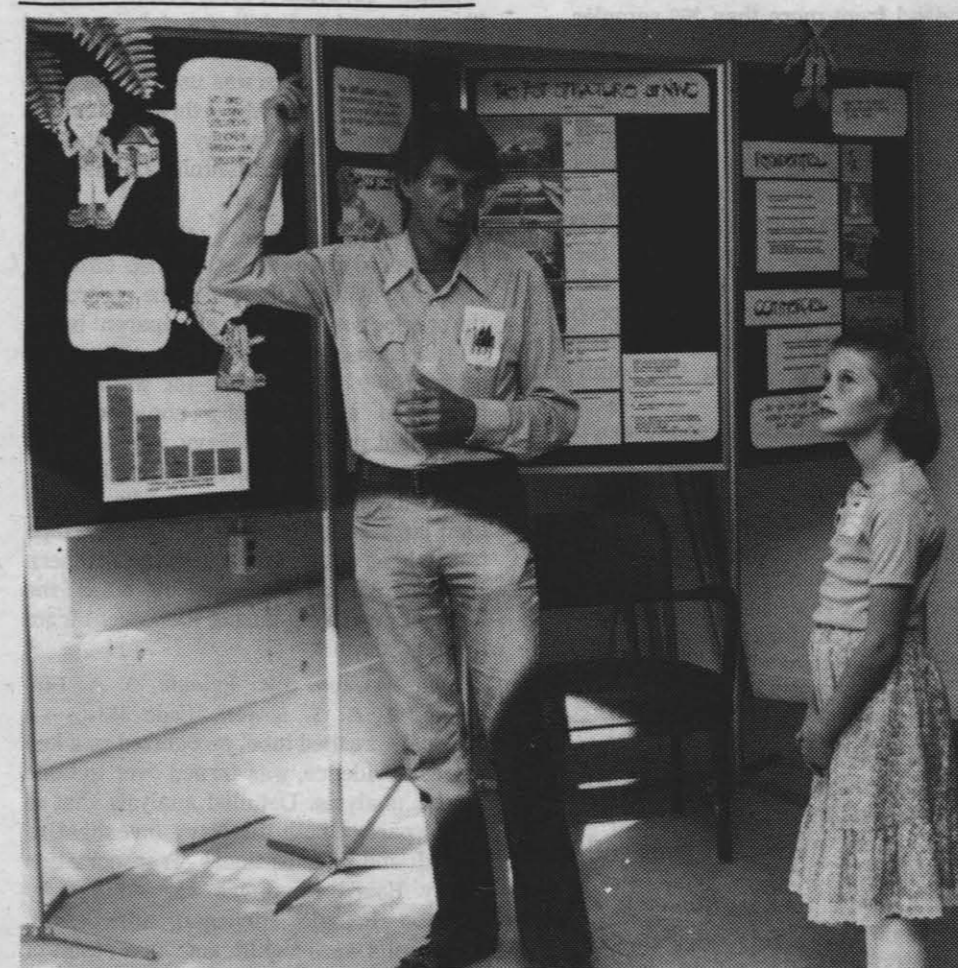
The two railroad workers who were fatally injured were carrying butane cigaret lighters in their pockets and were passing through an area where welding work was being done.

In each case, a spark from a welder landed on the butane lighters the men were carrying, burned through the container and caused the fluid in the lighter to explode. One lighter was in a shirt pocket and the individual was killed instantly. The other lighter was in the pants pocket of its owner, who had to have his leg amputated and later died.

In view of this, it is recommended by the Safety and Security Department that all Centerites who work in locations where flames, sparks or other sources of heat are present not carry disposal butane cigaret lighters in their pockets.

## Energy conservation tip

Use your kitchen, bath, and other ventilating fans with care. In only one hour these fans can blow away a houseful of warmed air.



PROJECTS TOURED — Dave Wirtz, program manager for the NWC low energy structures program, describes how energy is conserved in the low energy structures test cell to Kathy Dibble, a Vieweg School fourth grade student. Kathy, her parents, teacher, and school principal were given a tour of some of the Center's alternate energy programs last Friday afternoon after she was presented with the grand prize for her winning entry in the Navy Energy Awareness Week poster contest.

—Photo by PHAA Terence Cole

# China Lakers cited for helping government in railroad suit . . .

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six years.

Dr. Joyner was one of the original investigators who made exceptional contributions to the investigation of the ammunition train explosions at Benson, Ariz., as well as at Roseville, Calif. His work resulted in gathering the information that was necessary to win the case against an injunction that could have halted the shipment of Tritonal bombs by rail, or inhibited the use of Tritonal and the loading of Mk-81 and Mk-82 bombs.

Dr. Joyner pieced together evidence and described for the court and jury the mechanisms that caused the first boxcar of munitions to explode. This is believed to be the most important point since it convinced the judge and jury that an external fire started in the brake shoe of a railroad boxcar was the cause of the fire which then led to the explosions.

While Dr. Joyner and Pakulak were the team leaders in investigations of the railroad yard explosion at Roseville, Center management has singled out the following for individual mention for their specific parts in this effort as well:

H. C. Schafer (Code 6212)—This first point of contact at NWC with the Roseville explosion, Schafer organized rapid response to a request for an assistance. In subsequent months, he continued to serve as a coordinator and point of contact for NWC efforts.

Dr. Carl M. Anderson (Code 3264) — The important position of Pakulak's principal assistant and colleague was fulfilled throughout the investigation by Dr. Anderson. In this role he participated in analysis of both photographic evidence and testimony of witnesses. He participated in the planning, direction, observation, and reporting of scores of tests of ordnance, railroad materials, boxcars, and other items. In recent months, Dr. Anderson has constructed an accurate, scale-model of the Roseville railyard as it existed on the morning of the explosion.

Edward Kuletz (Code 3264) — A mainstay of the Code 3264 thermal research efforts for many years, Kuletz was responsible for directing and carrying out, among other things, the cook-off tests in the China Lake Propulsion Laboratories area. He also set up and supervised a final demonstration test utilizing a Mk-81 bomb that conclusively proved that ignition cannot propagate through the base area of a bomb even though there may be large explosions and very severe fire.

D. Madge Bryant (Code 3264) — Ms. Bryant is an expert in thermal analytical techniques, and her skill in analysis was essential in characterizing both explosive and inert materials. She made compatibility studies of explosives with ordnance materials or alleged contaminants, and conducted thermal characterization studies of brakeshoe material, grease, debris accumulated on boxcar wheels, and similar items.

Willard D. Snyder (a former employee of Code 3276 who has died) — Snyder participated in the cook-off and boxcar tests that were so important in establishing the response of ordnance to the type of heat that a boxcar fire would present. This work, which took place in the early phases of the investigation, was vital in laying the foundation for countering the allegations made by the Southern Pacific Railroad Co. and its experts.

Paul G. Walker (formerly of Code 3276, now retired) — Along with Snyder, Walker was instrumental in the cook-off studies mentioned above. In addition, he participated in the running tests carried out with an actual boxcar at the Naval Ammunition Depot, MacAlester, Okla. His ability to install and maintain instrumentation in the field played a vital part in those tests.

P. S. Wiggins (Code 3264) — A technician, Wiggins assisted in ordnance testing related to the Roseville railroad yard explosion. More recently, he was involved in setting up large-scale demonstration tests based on



**TEAM LEADERS CONGRATULATED** — Bob Hillyer (at right), Technical Director, congratulates Jack Pakulak and Dr. Taylor Joyner for their leadership of a team that assisted the U.S. Attorney's office in the successful defense of a suit brought against the U.S. Government by the Southern Pacific Railroad Co. More than 40 Centerites were the recent recipients of an Award of Merit for Group Achievement for their contributions to the Roseville (Calif.) Railroad Yard explosion trial. Present during the award ceremony to add their congratulations to those of Hillyer were (at left) Carl Schaniel, head of the Ordnance Systems Department, and Capt. William B. Haff, NWC Commander.

the hypothesis that it was a railroad yard fire that initiated the explosions at Roseville.

R. A. McNeill (Code 3264) — McNeill assisted Pakulak in fire and smoke visibility tests during the investigation. He is currently involved in setting up large scale tests aimed at determining the behavior of a boxcar exposed to an exterior fire of a type that is known to be common in railroad yards.

Dr. William S. McEwan (formerly Code 385, now retired) — Dr. McEwan provided consultation as an expert in chemistry, explosives, wreck analysis, and railroad yard destruction, based on his on-site analysis of the World War II bombing campaign against the Italian railroads.

Dr. Albert H. Lepie (Code 3858) — Dr. Lepie supervised a monumental effort aimed at determining the explosive sensitivity data on Tritonal recovered from sections of Mk 82 bombs. Information was obtained from more than 360 samples.

E. M. Bens (Code 3851) — Bens participated in the work supervised by Dr. Lepie. He typified the integrity of the Navy position by requesting more sensitive test procedures and reporting and commenting on ostensibly adverse results when two samples showed trace alkalinity. (Tritonal loading documents specify that the explosive shall show no alkalinity). It was determined that the alkalinity was probably of foreign origin — arising from material introduced during cutting the bomb into sections.

Duane M. Pearl and Terance Roan (Code 3858) — These two men determined the explosive properties of the Tritonal samples used in the test work supervised by Dr. Lepie.

Charles D. Stanifer (Code 3852) — An expert in X-ray and other analytical techniques, Stanifer assisted in characterizing suspect materials collected during the sectioning process in the Mk 82 bomb study.

Dr. Ronald A. Henry (Code 38505) — Dr. Henry provided constant and invaluable expert consultation on the chemistry of TNT, Tritonal, and Minol, and was listed as one of the U.S. experts.

Drs. Arnold T. Nielsen, William P. Norris, and Ronald L. Atkins (Code 3858) — Under the leadership of Dr. Henry, these three research chemists synthesized and characterized the entire family of dinitrotoluidines. As a result of this work, it was concluded that dinitrotoluidines are less (not more) sensitive than TNT.

Donald W. Moore (Code 3851) — An authority in sophisticated instrumental

analysis, Moore applied his knowledge and skill to the Dinitrotoluidine Syntheses program carried out by the Organic Chemistry Branch. His ability to quickly characterize the materials synthesized were a key factor in the successful conclusion of what was a crash program.

Kinge Okauchi (Code 3243) — Okauchi assisted in making copies of a tape recording from the train involved in the railroad yard explosion at Roseville, as well as a "first approximation" analysis of the original tape. His recordings formed the basis for a later, more sophisticated analysis of the tape.

Robert L. Fowler (Code 3131) — Fowler provided the print-outs from the train's tape recording upon which the first, very crude estimations of train speed on its run to Roseville were based. These tapes strongly suggested that the train was proceeding at an excessive speed.

Lothar Janetzko (Code 3622) — Using his equipment and skill, Janetzko provided additional copies of the train's tape recording. This data was used in early efforts to detect a hot wheel through analysis of the sounds and thereby determine the boxcar on which a malfunction had occurred.

R. G. Christiansen (Code 3141) — Christiansen made a determined effort to establish, by analysis of the tape recording, the precise boxcar where an apparent brake fault occurred. This typified the willingness of the Navy to look hard for what really happened and thereby constituted a significant part of the Navy investigation.

Wallace W. Parmenter (Code 6212) — Appearing as an expert witness, Parmenter used his detailed analysis of the train tape to establish that, contrary to the Southern Pacific Railroad Co. operating rules, the train was speeding during its descent from Donner Summit.

John Pearson, J.K. Pringle, S. A. Finnegan, R. G. S. Sewell (Code 383) — A curiously crushed tube, recognized as a key piece of evidence, was turned over to Code 383 for analysis. Detailed analysis that is now a part of both the Navy investigative record and the National Transportation Safety Board files was carried out by Pearson, Pringle, Finnegan, and Sewell. The results were significant. As a result of this testing, it is now known that this type of damage is typical of the type of reaction which led to the explosion at the Roseville railroad yard.

Dr. C. D. Lind (Code 3262) — Dr. Lind, who is a well known expert in fire and detonation phenomena, provided con-

sultation regarding these matters throughout the investigation of the events at Roseville.

J. N. Sichra (formerly Code 4568) — For a brief period of time, Sichra served as coordinator for the effort made by NWC personnel in the investigations of the railroad yard explosions at both Roseville, Calif., and Benson, Ariz.

Nick Kleinschmidt (Code 3269) — During the Roseville trial, Kleinschmidt provided "instant" data and calculation on the physical strength of the Mk 81 bomb casing.

Dr. L. A. Burkhardt (now retired, formerly of Code 6052) — As head of the General Chemistry Branch, Dr. Burkhardt devised experiments on a quick response basis which demonstrated (contrary to a Western Pacific Railroad Co. expert's allegation that violent reaction was an inevitable result of the exposure of Minol to water) that such a reaction — although theoretically possible — was, in fact, not observed under even very favorable conditions.

P. G. Rivette and L. A. Williams (Code 3262) — Throughout the investigation, Rivette and Williams, who are experts in explosive loading of ordnance, loaded a variety of items (both large and small) for cook-off testing. Very recently, they provided custom-made, cavity-free loadings of Mk 81 bombs.

B. L. Tozer (Code 3262) — Tozer supervises large scale cook-off tests. In collaboration with Pakulak, he carried out many vital tests in support of the investigations that followed the explosions at the Roseville railroad yard.

Donald Stewart, Mary S. Pakulak, Dorothy Rambo, and Nathan Sippel (Code 3272) — These members of the Properties Analysis Group in the Ordnance Systems Department provided analytical support throughout the investigation. Many of the samples sent them were far from conventional — grease and associated debris from the underside of a boxcar being an example. Even though analysis of unusual materials is not easy, Stewart, Ms. Pakulak, Ms. Rambo and Sippel provided useful results.

R. G. Muro (Code 3624) — Through use of his knowledge of spectrographic analysis, Muro provided valuable analytical data.

Dr. R. D. Ulrich (formerly Code 4545, now at Brigham Young University) — Dr. Ulrich is an expert in fire and heat transfer. His work, both theoretical and experimental, has supported the investigation of the explosions in the railroad yard at Roseville. Dr. Ulrich is listed as a United States expert. His recent research on ignition and fire-spread in boxcar type wood flooring will be significant in those phases of the Roseville trial relating to fire.

This kind of effort is a vivid demonstration of the kind of accomplishments that can be achieved by departments on the Naval Weapons Center working together.

## BOOST program leads to careers as Navy officers

The Navy's Broadened Opportunity for Officer Selection and Training (BOOST) program is seeking young Navy men and women who have demonstrated outstanding qualities and potential, and who desire careers as naval officers.

BOOST is primarily intended as an upward mobility program in support of Navy affirmative action goals.

The program has produced excellent results for both the Navy and its participants in past years, and the number of available positions in BOOST has been increased from 150 to 200 for 1980's new class.

# Hunters in NWC range area get above-average take of chukars

More than 2,100 hunters took advantage last Saturday and Sunday of the opportunity to try their luck hunting for chukar, quail and rabbits on a portion of the Naval Weapons Center's northern range area.

Mother Nature cooperated by providing fine weather until the middle of the afternoon on Sunday, when the wind began to blow hard, and the hunters were rewarded with an above-average take of chukar.

Approximately 3,440 chukar were bagged, along with 500 quail, 140 cottontail rabbits and 143 jackrabbits, according to Tilly Barling, head of the Center's Natural Resources Management Office.

For those who have permits, another such hunt will be staged in the same sectors of the NWC range area tomorrow and Sunday. There is a \$5 fee per hunter that will be collected at the entry point to the hunting areas, which will be open at 5 p.m. today and will close at 5 p.m. on Sunday.

Entry to the NWC hunting area is through

the check station at the Darwin gate on the north perimeter of the Center for the general hunting public. NWC personnel who have obtained permits will be able to enter via the Mountain Springs Rd.

This past weekend, leaflets were distributed to the hunters, who were asked to be on the lookout for (but not shoot) crested tinamou, a dull brown-colored bird the size of a guinea fowl that is native to South and Central America. A number of them were planted in the NWC range area about 10 years ago.

Ms. Barling was pleased to learn that several hunters did report seeing these unusual, 3-toed birds, indicating that efforts to get them to adapt to the dry, desert terrain of the NWC range area may have been successful.

This is noteworthy, the head of the NWC Natural Resources Management Office said, because the crested tinamou has never before been successfully planted in California.

## Open season for Fed'l Employees Health Benefits Program scheduled Nov. 12- Dec. 7

Open season for the Federal Employees' Health Benefits Program will be held from Nov. 12 through Dec. 7.

The Office of Personnel Management proposed the change in the length of open season (from two weeks to four weeks) to allow more time for distribution of open season materials and to allow more time for employees to study the benefits or services offered by all available plans before deciding what action they want to take.

Employees who do not want to make any change in their enrollment need take no action during this time. However, any eligible employee who is not currently registered may enroll and enrolled employees may change from one plan to another, or from self only to self and family, or a combination of both. This year each employee will receive brochures for both the Service Benefit Plan (Blue

Cross - Blue Shield) and the Indemnity Benefit Plan (Aetna), an Open Season Instructions pamphlet about plan changes that will become effective on Jan. 1, 1980, and a bi-weekly benefits rates sheet.

Employees who want to enroll or make some other permissible change in coverage should contact their Code 09 personnel clerk. New enrollments and changes in current enrollments made during the open season will become effective the first pay period in January 1980.

Employees are urged to make any desired change in the Federal Employees' Health Benefits Program as soon as they have the information literature they need. Information materials will be distributed as soon as they are received.

A list of the plans that Naval Weapons Center employees are eligible to join, and the rates per pay period for 1980, follows.

PLAN	OPTION			
	High Self	High Family	Low Self	Low Family
Blue Cross/Blue Shield	\$12.31	\$26.87	\$2.06	\$5.97
Aetna	8.23	12.56	2.75	6.52
American Federation of Gov'l Employees	6.31	13.41		
Alliance Health Benefits Plan	2.37	19.23		
American Postal Workers Union Plan	9.43	9.06		
Gov'l Employees Hospital Ass'n	4.30	9.06		
Mail Handlers Benefit Plan	3.62	9.98	2.66	7.48
Natl' Ass'n of Gov'l Employees	9.16	15.43		
Natl' Ass'n of Letter Carriers Health Benefit Plan	7.91	21.35		
National Federation of Fed'l Employees	6.68	14.29		
National Treasury Employees Union	12.24	12.24		
Postmasters Benefit Plan	15.38	30.28	1.45	3.53



**MAJOR EVENT** — Capt. W. B. Haff, NWC Commander, snipped the ribbon across the entrance of the NWC Commissary Store and Exchange for the grand opening of the two stores at their new location in Bennington Plaza on Tuesday. Watching him are (l. to r.), Cdr. Rocco Tannone, Officer in Charge of the San Diego Regional Office of Commissary Stores; Lt. Cdr. Doug Wellumson, Officer in Charge of the Long Beach Navy Exchange; Capt. Wayne Gerstenberger, Officer in Charge of the Navy Resale Systems Support Office, Oakland; Lt. R. J. Boyd, NWC Navy Exchange Officer; and MSC S. B. Sabacor, NWC Commissary Store Officer.

## Awards presented for energy savings. . .

(Continued from Page 1)

Works Department on the same day in August 1972.

Hunter started through an apprentice program at China Lake immediately following his active duty in the Air Force during the Korean Police Action. He had completed nearly three years of that training when he was recalled to active duty with the Air Force during the crisis over Quemoy. He then completed an Air Force career working with fighter weapons radar

## Navy weather group now Oceanography Command Detachment

As of Nov. 1, the Naval Weather Service Environmental Detachment at China Lake will be functioning under a new name — Naval Oceanography Command Detachment. Despite the name change, however, Chief Petty Officer in Charge Chelmer E. Finger emphasizes that the unit will still be performing the same tasks.

The name change reflects an organizational realignment of the Naval Weather Service as the Naval Oceanography Command, which will have a regional structure with major centers at Norfolk, Va.; Suitland, Md.; and Pearl Harbor, Hawaii.

Chief Finger says that the local group will still take and transmit surface weather observations and provide the local area forecasts, range forecasts, and special project forecasts.

The detachment also provides radiological fallout, ballistic wind, D value and other special forecasts, and prepares and distributes astronomical data and local climatological summaries that may be requested.

The China Lake Detachment is specially tasked to provide the planning forecasts for airspace R2505 in which the Center is located.

Although the name of the unit has changed, its telephone numbers have not. Those who wish to hear the recorded weather forecast for the next 36 hrs. can still call NWC Ext. 3435. Those who need more specific information may still contact a weather forecaster by calling NWC Ext. 5470.

before once more returning to China Lake.

Ellingson has been employed on the Center since 1967, when he began work in the Fire Station. He had previously been a floorman at Harrah's Club in Lake Tahoe and had decided that he would prefer a different type of occupation. He transferred to the NWC Supply Department before his move to the air conditioning shop, where, he says "I found my home."

The men say that they find it difficult to determine which of them is responsible for any of the improvements made in the system. "Sometimes," says Hunter, "we'll do things without even talking to each other about it."

They said that they began to think about possible changes and improvements in the operation of the system during the oil crisis in 1973-74, at which time they experimented with shutting off part of the auxiliary blower system and found that it was not missed.

When the current crisis began, Richard Fulmer, head of the Energy Program Office, and Dr. Stine were given a tour of the heating and air conditioning units in Michelson Laboratory by Hunter and Ellingson; at that time, the two men pointed out to the Energy Program Office personnel what changes they thought might be implemented without adversely affecting the working environment in the laboratory.

They were given permission to experiment to see what they could do to save energy, and have gradually instituted the changes in operation that resulted in the major energy savings for the Center.

## 65 degree limit set on heating work areas

Centerites who feel the chill breath of autumn should dig out their sweaters and woolly socks to keep warm if they find that the ALNAV mandated temperature of 65 degrees is too cold for comfort.

The use of electric space heaters is not permitted in areas where a heating system is operational, according to Naval Weapons Center Instruction 4101.1; this is in accordance with NAVFACINST 4100.4A. Only in exceptional cases will the use of electric heaters be approved by Code 26.

# CONSERVE ENERGY

**ENERGY HOT TIP** — Throw-away furnace filters should be changed at the beginning of the heating season and monthly thereafter. Your home will stay cleaner, wear on the furnace fan motor will be lessened, and energy consumption will be reduced by at least 6 percent due to improved circulation of heated air.



—Photo by PH2 Tony Garcia

**COs EXCHANGE DUTIES** — In what amounted to an unusual turn of events for such occasions, the commanding officers of two Naval Reserve units that meet and drill at China Lake exchanged assignments during a change of command ceremony held recently in Hangar 3 at Armitage Airfield. NWC Reserve Unit 0716 is now headed by Capt. Terry Badger, USNR-R (at right), while the new commanding officer of Weapons Systems Support Unit 0276 is Cdr. John Bloore.