



CONCERT PERFORMERS — "Calliope: a Renaissance Band" will hold forth Tuesday evening at the Center theater — presenting what will be the second program in the series of six concerts scheduled this season by the Indian Wells Valley Concert Association. The instrumentalists, all virtuoso musicians, offer a repertoire of selections played on more than 45 instruments — about 25 of which will be featured in Tuesday night's concert here.

Renaissance music gp. to play at next concert Tuesday night

A program featuring a wide variety of instrumental music from the 12th through 16th centuries will be presented Tuesday, starting at 7:30 p.m., at the Center Theater. "Calliope: a Renaissance Band," will be coming here for this, the second in the series of six concerts being presented during the 1981-82 season by the Indian Wells Valley Concert Association. A quartet of virtuoso musicians makes up this renaissance band. About 25 of the more than 40 instruments used by the group will be played during the concert here on Tuesday night. "Calliope" had its beginnings as an early music ensemble in 1975, and started out impressively by winning the coveted Naumberg Chamber Music Award during its first season. Since then, the group has appeared in every major renaissance festival in this country, and in numerous concert halls (including New York's Alice Tully Hall and Pasadena's Ambassador Auditorium). "Calliope's" list of impressive achievements includes a performance at the Library of Congress as part of the 1977 Presidential Inaugural Celebration, and being selected by the National Endowment of the Arts to participate in a pilot project involving leading American chamber ensembles. This season, "Calliope" is in its second year of residence at Christ Church in New York, where its schedule includes 18 concerts plus an extensive program of lecture-demonstrations. Appearances across the continent on this tour include stops at Mexico City and in Reno, Nev., as well as at

Miss IWV Pageant scheduled at BHS lecture center Saturday

The 1981 Miss Indian Wells Valley Pageant will be staged tomorrow evening, starting at 8 o'clock, at the Burroughs High School lecture center. Each of the eight finalists in this event will demonstrate her talent by singing, dancing, playing a musical instrument, or giving a dramatic reading in addition to appearing in the pageant's opening number.

The finalists, who were selected from a group of more than 25 applicants, and their sponsors, are: Betsy Babcock, Miss Burger King; Martha Boessow, Miss Daily Independent/Channel 3 News; Cathi Brown, Miss John's Pizza; Angelia Celestine, Miss NAACP; Lisa Marie McCarty, Miss McDonalds; Carla Mireles, Miss Eldorado Mobile Homes; Pamela Severson, Miss Classy Closet; and Julie Ann Young, Miss Kerr-McGee Chemical Corp.

Rehearsals for the combined variety and talent show that will be presented tomorrow night were directed by Donna Sorge, pageant vice-president; assisted by Dr. Paul Riley, of Cerro Coso Community College, who coached and directed the musicians; and Georgia Knutsen, local ballet instructor, who is in charge of choreography and dance instruction.

COM schedules next Membership Night fete Nov. 21

The Commissioned Officers' Mess will be featuring another Membership Night fete on Saturday, Nov. 21.

A buffet dinner consisting of a green salad, baron of beef, baked potato, vegetables, hot rolls and butter, and coffee tea will be served from 6:30 to 9:30 p.m.

On stage, the COM will feature "The Marauders," a contemporary rock group from Los Angeles, who will perform for COM members and guests from 8 p.m. until midnight.

Price for this evening of dining and dancing is \$5 for members and their spouses and \$6 for guests.

Reservations for dinner/dancing or dinner only must be made prior to 12 noon on Friday, Nov. 20, to insure sufficient time for food and seating preparations. For reservations call the COM office at 446-2549. No tickets will be sold at the door.

SIDEWALK SALE AT NEX
The Navy Exchange is now conducting a sidewalk sale of merchandise offered at the NEX Retail Store in Bennington Plaza.

The sale began this morning and will be continued until 3:30 p.m. today. It will be resumed tomorrow from 10 a.m. to 2:30 p.m.

are Robert Pinney, news director for Radio Station KLOA, and Dodie Gorrone, owner of a clothing store in Ridgecrest.

Mistress of ceremonies for the 1981 Miss Indians Wells Valley Pageant will be Deanna Fogarty, a former winner of the Miss California Pageant, and special guests will be previous winners of the Miss Ridgecrest-China Lake Pageant.

Tickets for admission to the pageant, priced at \$5 per person, will be available tomorrow night at the BHS lecture center box office, or can be purchased ahead of time in Ridgecrest at the Daily Independent newspaper office, Medical Arts Pharmacy, Gorrone's for Gals, Parker's Men's Wear, and at Bud Eyre Chevrolet.

The Miss Indian Wells Valley Pageant is sponsored by the Ridgecrest Exchange Club, a men's service group that is accepting donations for the scholarship that will be presented to the winner of this event. Pageant activities began in September, when the contestants were the guests at a Ridgecrest Chamber of Commerce luncheon. This was followed by a formal sponsors' reception during which the sponsors and contestants met for the first time.

SNACK BAR SERVES BREAKFAST
The snack bar at the China Lake golf course, now run by the Chief Petty Officers' Club, is open for breakfast six days a week.

Operating hours of the snack bar are Tuesday through Friday, from 7:30 a.m. to 3 p.m. and Saturday and Sunday from 7 a.m. to 4 p.m.

FOR NAVY NEWS
P.A. LINE
X 2345

Weekend Roundup

A free swim will be offered tomorrow from 1 to 5 p.m. at the indoor pool in the Center gym. This is the chance to take a free peek at the indoor pool since its face lift has been completed.

Children under 12 years of age must be accompanied by a parent or guardian.

The annual Holiday Bazaar, sponsored by the Women's Auxiliary of the Commissioned Officers' Mess, opened its doors at the Community Center this morning at 10 o'clock. Twenty-one local organizations have booths at which handmade crafts, Christmas decorations, homemade candy, goodies and other salable items are featured. Santa Claus also is on hand to greet children and pose for photographs with them.

The bazaar will be open this evening until 8, and tomorrow from 10 a.m. to 3 p.m.

The Maturango Museum is sponsoring a public tour of the Caltech Radioastronomy Observatory near Big Pine tomorrow. A visit to the Eastern California Museum in Independence is also included in the day's activities. Participants will depart from the Maturango Museum at 8 a.m.

The tour is free to all museum members; however, there will be a \$2 fee for non-members. For reservations and more information, contact the museum by calling 446-6900.

arrangements have been made for sixth grade students from the Sierra Sands Unified School District to attend, along with smaller groups of students from public and private schools.

This student program is provided as an educational service by the IWV Concert Association and is made possible by contributions to the association's student education fund.

Thanksgiving Day dinner planned on Nov. 26 at COM

A feast is being prepared by the Commissioned Officers' Mess chef on Thanksgiving Day. Dinner will be served on Thursday, Nov. 26, from 2 to 7 p.m.

The Thanksgiving Day menu will include roast tom turkey with country dressing, baked Virginia ham with fruit sauce, baked country candied yams, whipped potatoes, hot turkey giblet and mushroom gravy, vegetables, salads and dessert buffet featuring fresh fruit, candies, pumpkin and apple pie.

Price of this Thanksgiving Day dinner is \$7 for adults and \$3.75 for children under 12 years of age.

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China Lake. The four members of the group — Lucy Bardo, Lawrence Benz, Allan Dean and Ben Harms — come from a variety of backgrounds and maintain distinguished individual musical careers in addition to performing in "Calliope."

Tickets to Tuesday night's concert are priced at \$5 each for general admission, or \$3 for enlisted military personnel, as well as for persons under 21 or over 65 years of age. Tickets can be purchased at the Maturango Museum or in Ridgecrest at the Music Man, the Gift Mart, Medical Arts Pharmacy, McNeil's Fashions, and at the Center Pharmacy (adjacent to the Drummond Medical Center).

Any tickets unsold prior to Tuesday afternoon will be available at the Center theater box office from 4:45 p.m. until the concert starts at 7:30.

As an added bonus, "Calliope" will present a program just for students on Tuesday from 10 to 10:50 a.m. at the Burroughs High School lecture center.

Arrangements have been made for sixth grade students from the Sierra Sands Unified School District to attend, along with smaller groups of students from public and private schools.

This student program is provided as an educational service by the IWV Concert Association and is made possible by contributions to the association's student education fund.

Motion picture on bats to be shown by museum

A motion picture entitled "Studies on Bats and Echolocating Birds of Northern Queensland, Australia" will be presented next Thursday, Nov. 19, at 7:30 p.m. in the Sylvia Winslow exhibit gallery in the Maturango Museum.

The film presentation, which is open to the public free of charge, will be shown by Drs. Robert and Patricia Brown-Berry.

Additional information can be obtained by calling the museum, phone 446-6900.

MOVIES

REGULAR STARTING TIME 7:00 P.M.

FRIDAY, MONDAY NOV. 13, 16
"THE POSTMAN ALWAYS RINGS TWICE"
Starring Jack Nicholson and Jessica Lange (Drama, rated R, 122 min.)

SATURDAY, WEDNESDAY NOV. 14, 18
On Saturday 3:30 Matinee
"THE LOVE BUG"
Starring Michele Lee and Dean Jones (Comedy, rated G, 115 min.) 7:30

SUNDAY NOV. 15
"CAVEMAN"
Starring Ringo Starr and Barbara Bach (Comedy, rated PG, 92 min.)

TUESDAY NOV. 17
7:30 p.m.
IWV Concert Association presents
CALLIOPE — A RENAISSANCE BAND

U.S. Government Printing Office: 1981 - No. 1000

From: _____ PLACE STAMP HERE

To: _____

City receives solar energy plant proposal

Officials of the City of Ridgecrest last week were the recipients of an exhilarating proposal that the local municipality become involved in a project to locate the world's largest solar energy plant in the nearby desert area.

During a press conference held last Friday at the Ridgecrest City Hall, Mayor Harold Hockett announced a visit here the preceding day by representatives of the engineering firm of Gibbs & Hill Inc., of New York and Washington, D.C., on behalf of the Consort for Alternate Energies for whom the proposal was presented.

This group proposes to build a 500 megawatt solar powered plant that would produce 1.6 billion kilowatt hours of electrical power per year. It would consist of seven central tower-receivers 825 ft. in height each surrounded by a field of 10,000 heliostats or mirrors that reflect sunlight onto a boiler arrangement that produces steam to drive turbine-type generators.

SIX SQ. MILES NEEDED
The total area required for the plant, city officials were told, would be approximately six square miles, and it will take an estimated five years to build. During the peak of construction, some 2,000 construction workers would be on the job.

All of this means a total investment in the neighborhood of \$1.5 billion, it was added during the presentation made to the city officials.

The proposal, Mayor Hockett stated during the press conference on Friday, includes the possibility of participation by the City of Ridgecrest in the construction and/or operation of this massive electrical power production facility.

The city's participation could be by means of offering tax-free municipal bonds to help finance the project — a possibility that will be investigated along with all other aspects of the proposal.

NO COMMITMENTS MADE
Mayor Hockett emphasized that the project is strictly a proposal at this time and that no commitments have been made by the City of Ridgecrest. "A project of this magnitude could have a tremendous effect on our local economy and also would have many other impacts. It deserves serious consideration to determine the full extent of the advantages and disadvantages.

"The main task facing us at this point," Mayor Hockett continued, "is to examine carefully the pros and cons of the proposal to determine whether the location of such a facility would be acceptable to the community. We will be giving a considerable amount of thought to this proposal in the next few months and plan to involve the entire community in this process," the mayor added.

One of the prime considerations, the mayor stated, will be to insure that the location of the solar-powered plant's 825-ft-tall towers do not jeopardize the Naval Weapons Center's test operations involving aircraft flights.

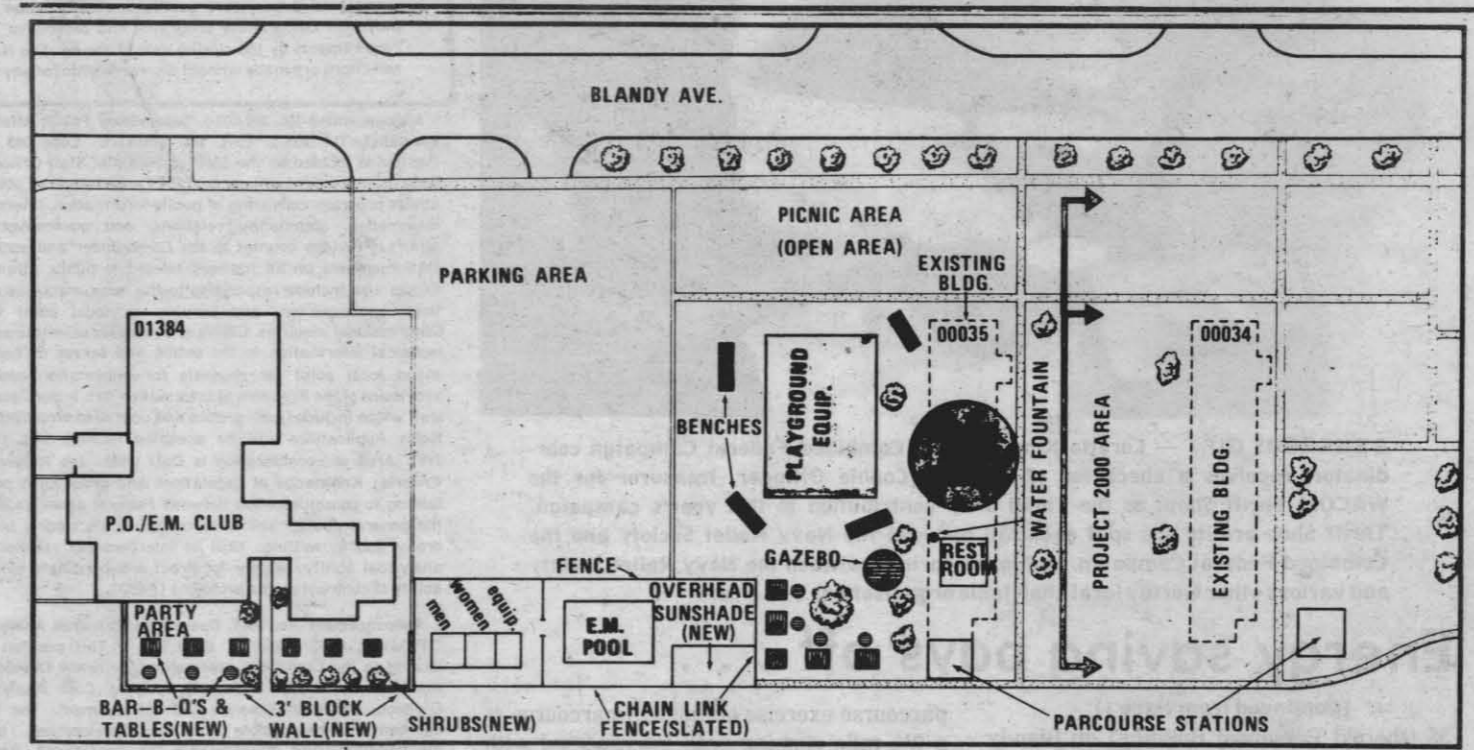
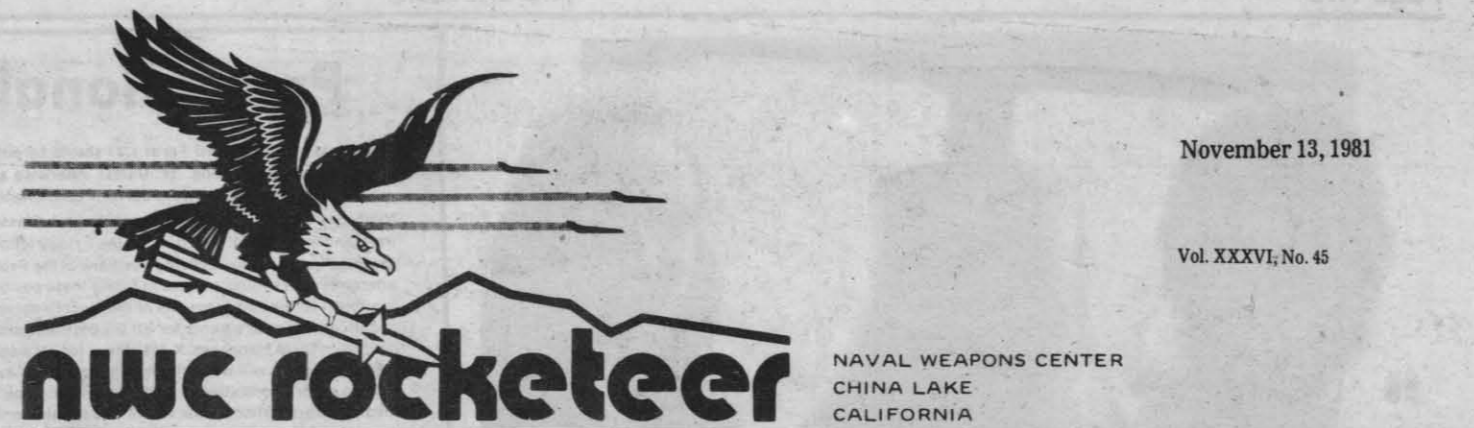
This same concern was voiced by (Continued on Page 5)

NWC support of CFC climbs to total of \$123,013

All pledge cards and donations for the Combined Federal Campaign should be turned in by the close of business hours today, says Loretta King, coordinator for this year's campaign.

As of last Friday, Nov. 6, 38.4 percent of the Center's 5,000 military and civilian personnel had either pledged through payroll deduction or donated in cash a total of \$123,013.34.

Any persons whose department representatives have not picked up their pledge cards may turn them in to Ms. King's office, Rm. 2027 in the Administration Building.



Rec facilities to be upgraded with funds won for energy conservation effort here

All of the Center's military and civilian personnel will benefit from their conscientiousness in conserving energy because the money that the Center won for its conservation programs for 1979 and 1980 is being used to upgrade recreational services facilities.

NWC took first place in the Naval Material Command for energy conservation in 1979 and second place last year. The funds represent a percentage of the cash savings

through conservation. Last week Capt. Lahr and Capt. Jerry Horacek, the Public Works Officer, have both given local approval to plans for using the \$200,000 for 1979 and the \$177,000 for 1980.

Rear Admiral James B. Busey, Deputy Chief of Naval Material for Resources Management, inspected the existing facilities while he was here recently, looked at plans for new and upgraded facilities, and assured the Center that the money for the

awards will be forthcoming shortly.

Two contracts have already been awarded: these are for upgrading the men's and women's locker rooms at the gymnasium — the first major reworking since the facility was built in the mid 1940s — and for a major renovation of the automotive hobby shop.

On the men's side, a new head will be installed, the shower room will be upgraded, and the steam room will be completely reworked. Many of the maintenance problems that have plagued the gym will be eliminated by these improvements.

On the women's side, new decking will be installed that is easier to clean, lockers will be installed on both sides of the locker room, new shower stalls will be put into place, and the restrooms will be upgraded.

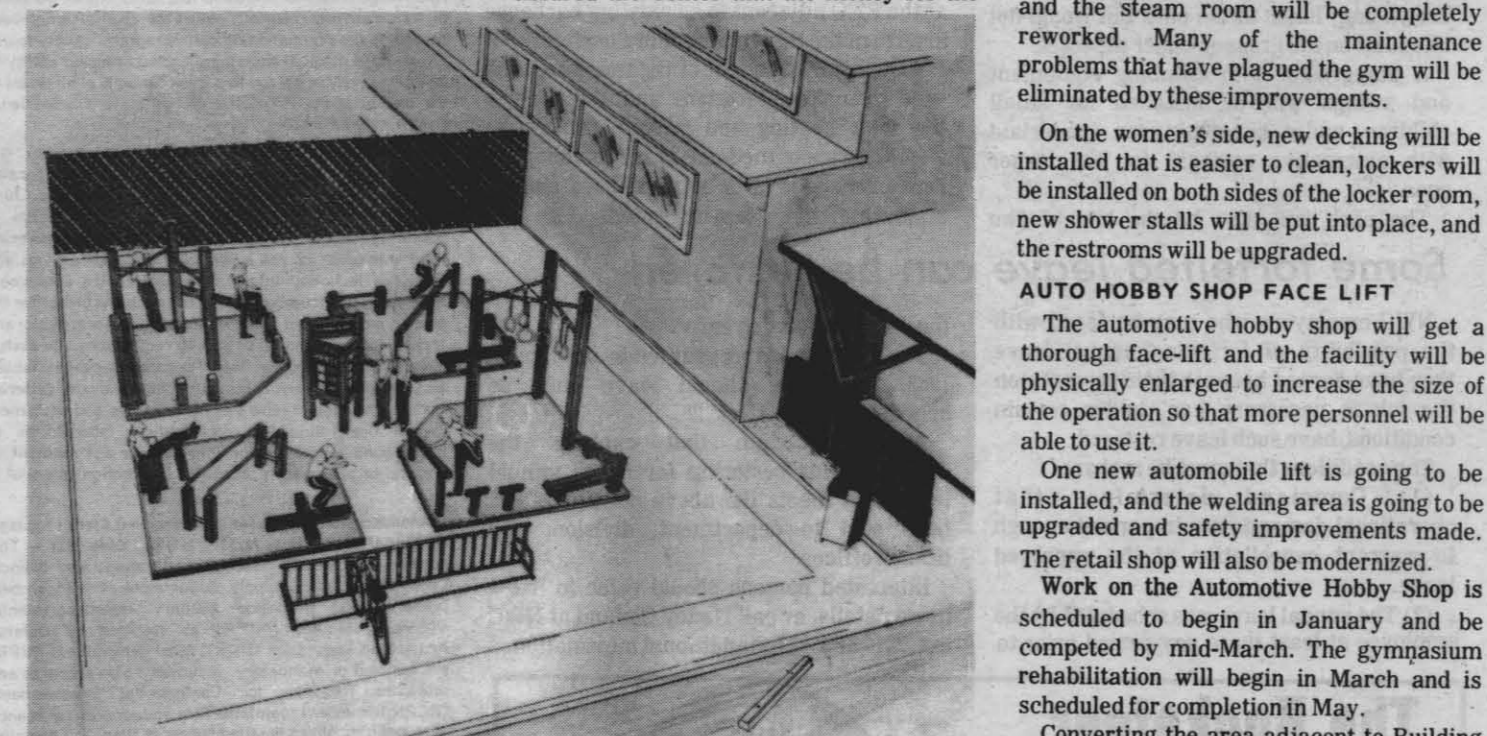
AUTO HOBBY SHOP FACE LIFT
The automotive hobby shop will get a thorough face-lift and the facility will be physically enlarged to increase the size of the operation so that more personnel will be able to use it.

One new automobile lift is going to be installed, and the welding area is going to be upgraded and safety improvements made. The retail shop will also be modernized.

Work on the Automotive Hobby Shop is scheduled to begin in January and be completed by mid-March. The gymnasium rehabilitation will begin in March and is scheduled for completion in May.

Converting the area adjacent to Building (Continued on Page 2)

Exercise station located near center gym



Papers presented at S&E Symposium win awards

Awards for presenting the best papers in three of the areas of technology that were covered during a Science and Engineering Symposium held recently at Wright-Patterson Air Force Base in Dayton, Ohio, were won by Naval Weapons Center employees.

The symposium was co-sponsored by the Naval Material Command and the Air Force System Command.

The W. S. Diehl Award for what was judged to be the best technical paper from all those presented by Navy civilian employees or military personnel was presented by Admiral J. G. Williams, Jr., Chief of Naval Material, to J. E. Crump and H. B. Mathes.

Crump, who heads the Applied Combustion Research Branch (Code 3881) in the NWC Research Department, and Mathes, a physicist in Code 3881, co-authored a paper entitled "Combustion Instability — a Continuing Threat to Missile Performance."

The particular paper was singled out as the best in the Propulsion and Power technology by Navy personnel during the symposium.

In addition to receiving an electric desk clock with an accompanying bronze plaque that all those whose papers won them recognition as being the best in a particular area of technology were presented, Crump and Mathes are due to receive a crystal plaque (suitably engraved) for also winning

the Diehl Award. The technical paper prepared by the two employees of Code 3881 discusses the cause of combustion instability in missiles, and describes typical failure modes associated with such instability.

In addition, Crump and Mathes wrote about currently available methods used to solve instability problems, and commented upon aspects of missile combustion instability that require additional research effort.

Tops among all of the papers presented in the general technology area of Geophysics and Environment was the one entitled "A Study of Combined Ducting, Multipath, and (Continued of Page 3)



GENEROUS GIFT — Loretta King (l.), the Combined Federal Campaign coordinator, receives a check for \$2,160 from Connie Otinger, treasurer for the WACOM Thrift Shop, as the Thrift Shop contribution to this year's campaign. Thrift Shop profits are split each fall between the Navy Relief Society and the Combined Federal Campaign, and in the spring, between the Navy Relief Society and various other worthy local charitable organizations.

Energy saving pays off . . .

(Continued from Page 1)

35 (the old Personnel Building) on Blandy Avenue into a park is the major project for which the 1980 funds will be used.

Capt. Lahr has felt that small parks spread in various places around the Center would be far more useful for everyone rather than having just one park on board. This would be the first step in achieving this goal.

Existing grass and trees will be tied into the plans, which will also enhance and enlarge the recreational area around the enlisted pool.

A gazebo will be built that will provide a spot where musical groups can perform and entertain people who are sitting on the grass. The gazebo will also provide a shaded area for anyone who would like to enjoy a brown-bag lunch in the park but would not like to sit on the grass or under the trees.

A playground with climbing equipment and swings will be installed for small children, and a bouncing area (underlaid with automotive springs) for the larger ones.

The park will also be the site of two

parcourse exercise stations. A parcourse — a 2½ mile running path interspersed with various exercise stations — is to be installed starting at the gym and returning to it. The parcourse concept has been tried and found to be enormously successful in Europe because it uses all muscles in a runner's body, not just legs.

A barbecue party area beside the Enlisted Mess also will be installed so that activities can be planned at the pool.

Other uses to which this year's money will be put include resurfacing the walls of racquetball courts 2 and 3 to improve the playing surfaces and to reduce maintenance required, and improving the spectator and parking area beside the tennis courts.

A windbreak and lighting will be installed at the BEQ adjacent to an existing barbecue area to make that facility more useful.

And, finally, the rest of the money will be used to make alterations and additions to the solar heating and cooling unit at the NRMCC branch medical clinic building. A heat exchanger is to be purchased and installed and the system upgraded.

Some forfeited leave can be restored

NWC employees who may be faced with the possibility of forfeiting annual leave they have earned because their presence on the job is necessary can, under certain conditions, have such leave restored.

The conditions that must be met are: (1) Command determines that operational demands are important enough to warrant cancellation of the approved leave.

(2) The annual leave was scheduled by the employee at least three pay period prior to

the end of the leave year. The current leave year ends on Jan. 9, 1982. Therefore, annual leave must be scheduled prior to Nov. 28.

A memorandum that explains the procedure for restoring forfeited annual leave that meets the above conditions has been sent to department, division, and branch offices.

Interested persons should refer to it for more details, or call Nancy Cleland at NWC ext. 2018 or 2592 for additional information.

Promotional opportunities

Applications (Standard Form 171) should be put in the drop box located at the Reception Desk of the Personnel Department, Bldg. 34. Unless otherwise specified in an ad, applications for positions listed in this column will be accepted from current permanent NWC employees only. All others desiring employment at NWC may contact the Employment-Wage & 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. Advertising positions in the Promotional Opportunities column does not preclude the use of alternative recruiting sources in filling these positions. The filling of these positions through Merit Promotion is subject to the requirements of the DoD Program for the Stability of Civilian Employment. The minimum qualification requirements for all GS positions and positions subject to the Demonstration Project are those defined in OPM Handbook X-118; those for all wage system positions are those defined in OPM Handbook X-118C. Applicants will be evaluated on the basis of experience, training, education, and awards as indicated in a written record consisting of a SF-171, at least one supervisory appraisal if it can be obtained, and any tests, medical examinations, interviews, and supplemental qualifications requirements that may be necessary. For managerial/supervisory positions, consideration will be given to applicant's support of the Equal Employment Opportunity programs and objectives. Applicants must meet time in grade and qualifications requirements by the closing date of the ad. The Naval Weapons Center is an Equal Opportunity Employer; selections are made without discrimination for any nonmerit reason.

Announcement No. 092-003-0, Supervisory Public Affairs Specialist, DA-1035-3, PAC No. 8100331E, Code 003 — Position is located on the Staff of the Chief Staff Officer, Code 02. Incumbent will conduct the Center's overall public affairs program consisting of public information, internal information, community relations, and governmental affairs. Provides counsel to the Commander and senior staff members on all matters related to public affairs. Duties also include responding to the news media as official spokesperson, and serving as focal point for Congressional inquiries. Clears and releases scientific and technical information to the public and serves as command focal point for requests for information under provisions of the Freedom of Information Act. Supervises a staff which includes both graded and ungraded employees. Note: Applications will be accepted through Dec. 11, 1981. Area of consideration is DoD wide. Job Relevant Criteria: Knowledge of regulations and procedures pertaining to communication between Federal agencies and the general public; ability to communicate clearly both orally and in writing; skill in interpersonal relations; analytical ability; ability to direct a subordinate staff; ability to confront people problems (EEO).

Announcement No. 084, Operations Research Analyst, DP 1515-1, PAC 8208402E, Code 081 — This position is located in the Computer Applications/Software Development Group of the Weapons Systems Cost Analysis Division, Office of Finance and Management. The incumbent is responsible for the development, implementation and maintenance of specialized computerized weapon system cost estimating models. Typically, these models use mathematical and statistical techniques to estimate weapon system cost based on physical and performance parameters. The incumbent coordinates the use of the Code 081 computer and all programming efforts. He/she trains division analysts in the proper use of all equipment and software. Job Relevant Criteria: Proficiency in Fortran and Basic; ability to work with minimal supervision; ability to work with people; knowledge of the NWC Univac computer and mini computer systems is desirable. Promotion potential to GS-12/DP-3.

Announcement No. 21-010, Clinical Nurse, GS-619-7, PD No. 8130949E, Code 21 — This position is located at the Naval Regional Medical Center Branch Clinic, China Lake, CA. The incumbent will perform a wide variety of professional nursing duties associated with employee health programs. Duties include emergency care, assisting with medical exams, administering medications and providing continuing education to patients. The incumbent also performs various aspects of the Federal Worker's Compensation Program, administers the immunization program, etc. Job Relevant Criteria: Knowledge of normal and abnormal symptoms for purposes of treatment or referral; ability to counsel employees regarding the occupational health program; ability to use all standard medical equipment and techniques; ability to deal effectively in person-to-person contacts at all levels of the organization. Promotion potential to Occupational Health Nurse, GS-9.

Announcement No. 21-011, Pharmacy Technician, GS-641-3/4, PD No. 8194001N, Code 21 — This position is located at the Naval Regional Medical Center Branch Clinic, China Lake, CA. The incumbent will assist pharmacists in providing support services. Duties include answering routine inquiries, the availability of specific drugs, and furnishing technical information and advice concerning their use. The incumbent inspects wards and clinics for the proper storage and utilization of pharmaceuticals and types, transmits, and files supply requisitions and assists in inventory control functions. Prepares, packages, labels, and dispenses pharmaceuticals. Job Relevant Criteria: Basic knowledge of laboratory procedures and equipment in chemical, biological, or medical laboratories or background knowledge of the medical environment or hospital or pharmacy procedures. Promotion potential to GS-5.

Announcement No. 25-049, Procurement Clerk (Typing), GS-1106-3/4/5, PD Nos. 7825034/7825038, Code 2521 — This position is located in the Contracts Management Branch, Contracts Division, Supply Department. The incumbent prepares and processes Military Interdepartmental Purchase Request (MIPR) as required by Defense Acquisition Regulation (DAR). Must determine if MIPRs are optional or mandatory. Incumbent also prepares and processes Requests for Contractual Procurements (RCP). Incumbent maintains files and records for branch personnel, monitors detailed suspense files, and compiles statistical information relating to branch performance. Incumbent is also responsible for preparing all branch correspondence, receiving visitors and telephone calls, and preparing travel orders. Job Relevant Criteria: Knowledge of Procurement Request Preparation Procedures; knowledge of DAR and NAVSO publication 467; ability to work independently; ability to deal effectively with personnel at all levels, both on and off Center. Applications will be accepted from status eligibles. Previous applicants at the GS-4/5 levels need not reapply.

Announcement No. 25-070, Procurement Clerk, GS-1106-3/4/5, PD No. 8025031/8025033/8025034, Code 2522 — This position is located in the Purchase Branch, Contracts Division, Supply Department. The incumbent receives purchase orders, delivery orders and contracts, determines if all documents are included and establishes an open-order file. Monitors the contractor's progress. If products are not received, performs pre-negotiation functions. Issues delinquency notices as required. The incumbent responds to inquiries based on knowledge of procurement file and regulations. Job Relevant Criteria: knowledge of Defense Acquisition Regulations (DAR); ability to deal effectively with a variety of personnel, both on and off Center; ability to work independently; ability to make sound decisions; knowledge of procurement request preparation procedures. Applications will be accepted from status eligibles.

Announcement 24-246, Clerk (Typing), GS-303-3 or 4, PD No. 8126036N, Code 2613 — Position is located in the Maintenance Control Division of the Public Works Department. Incumbent will provide typing and clerical duties, work requiring input to automatic data processing system, upkeep of numerous files, filing of all inspector and other reports, maintenance of building folders and data base information. Job Relevant Criteria: Skill in operating typewriter and ADP remote terminal; knowledge of grammar, punctuation, and formatting of typewritten material; knowledge of Public Works organization; ability to work well with others. Note: If filled at GS-3 level, position has promotion potential to GS-4; however, promotion is not guaranteed.

Announcement No. 33-032, Mechanical Engineer, DP-830-2/3, Physicist DP-1310-2/3, Computer Scientist DP-1310-2/3, 2/3, Electronics Engineer, DP-855-2/3, PAC 8133602E, Code 23662 — (Interdisciplinary) (3 positions). This position is located in the Naval Weapons Center, Interactive Graphics Program Office of the Fuze and Sensors Department. The incumbent serves as the focal point for applications for IAG system users. The incumbent will play a leading role in the operational development of the latest computer aided engineering technology. Responsibilities include: requirements definition, design and development, acquisition, test and evaluation, documentation, technical assistance and coordination of IAG software and hardware. The incumbent will be assigned responsibility for a variety of projects and will coordinate his/her efforts and the efforts of other government and contractor professionals and technical people. The position requires regular contact with technical associates, contractors and Center managers. Job Relevant Criteria: Ability to analyze technical requirements; ability to work effectively with various organizations and levels at NWC and with contractors; Computer and software experience is desirable; ability to work independently.

Announcement No. 38-026, Secretary (Typing), GS-318-4/5, PD No. 8131025N, Code 395 — Previous applicants need not reapply. This position is that of branch secretary in the Chemistry Division, Research Dept. The incumbent provides clerical support to the branches and administrative officer. Occasionally acts for division secretary. Prepares timecards, travel orders and training requests. Types from handwritten drafts all correspondence and progress reports. Distributes mail, answers telephone, knowledge of IBM Mainframe will be helpful. Job Relevant Criteria: Ability to perform receptionist and telephone duties; ability to review, control, screen and distribute incoming mail; ability to review outgoing correspondence; ability to compose correspondence and/or to prepare non-technical reports; knowledge of filing systems and files management; ability to meet the administrative needs of the office; ability to train clerical personnel and organize workload of clerical staff or processes; ability to plan and coordinate travel arrangements; ability to maintain and coordinate supervisor's calendar and to arrange conferences. Supplemental Qualifications Statement is required and may be picked up at the reception desk of the Personnel Bldg.

Announcement No. 38-027, Editorial Assistant GS-1087-5, PD No. 8138941N, Code 383 — Previous applicants need not apply. This position is located in the Detonation Physics Division of the Research Department. The editorial assistant performs editorial support services in preparing rough drafts for publication as Center technical reports, for presentations at technical meetings, or as scientific journal publications. The incumbent is responsible for advising the authors of the division of publication requirements and procedures. In addition to editing the manuscripts for grammar, punctuation, syllabification, spelling, capitalization, accepted English usage, and grammatical structure, the editorial assistant edits for conformance to stylistic requirements of the various publication media, and arranges the layout for final presentation. The incumbent works on several projects at the same time, each in various stages of completion, and reviews the final manuscripts to assure consistency between all numerical sequences. It is the responsibility of the incumbent to obtain all required reviews and releases prior to publication, and to follow up on all editorial services obtained outside the division. Promotion potential to GS-4; however, promotion is not guaranteed. Job Relevant

(Continued on Page 7)



DIVINE SERVICES
PROTESTANT
Sunday Worship Service 1000
Sunday School 0830
ROMAN CATHOLIC
Sunday Masses 0830 & 1130
Daily Mass (except Saturday) 1135
Sunday Religious Education Classes 1000
JEWISH
Friday in the East Wing 1930
UNITARIAN
Sunday, Annex 95, as announced 1930



THAT'S FAR ENOUGH — Ray Eastmon (32) puts the stop on an Antelope Valley ball carrier (barely visible) during this bit of action in Burros vs. AV varsity football contest. Cutting across to help lower the boom on the runner is Leigh Christman (No. 64), stellar guard for the Burros. — Photos by Don Cornelius

Burros surprise Antelopes . . .

(Continued from Page 6)

Steenbrenner, flanker, for a touchdown only to have a penalty nullify the score with 1 min., 11 seconds, left to play in the half.

This infraction followed by another one moved the ball back to the BHS 27 yard line and on fourth down Tim Dewberry came off the bench to boot a field goal for the Antelopes. Counting the 10 yd. setback of the goal posts from the goal line, it was more than a 40-yd. effort and gave AV a 3-0 lead with a minute still left to play in the first half.

FIELD GOAL TRY MISSES

That inspired the Burros, who were hit by a 15-yd. penalty back to their own 12 on the ensuing kickoff, to drive in 60 sec. from deep in their own territory to the Antelope Valley 32. A field goal try by Scott Fulton with 4 sec. left on the scoreboard clock was short as the two teams left the field for the half-time intermission.

Key plays in the drive that buoyed up the Burros' spirits as time ran out in the second quarter included two passes from Means to Shull that moved the ball to the AV 41, and a screen pass to Ken McGrath, who was hauled down at the visitors' 32 — setting the stage for the field goal attempt.

Ready now to dictate the pace of the game, the Burros took advantage of a low kickoff by Antelope Valley at the start of the third period to move from their own 44 to paydirt in a time-consuming drive that gobbled up 5½ min.

PASSING ATTACK MOVES BALL

The scoring push began inauspiciously with the loss of 11 back to the 33 when Quarterback Means was sacked, but two plays later Means passed to Shull for a first down at the AV 36. The next big play was an aerial from Means to Sturgeon, who was stopped at the 'Lopes 17. Another pass to Sturgeon put the ball on the AV 8-yd. line and Means picked up a first down at the 5 on a quarterback sneak.

A screen pass from Means to McGrath worked for the touchdown and Fulton added the PAT on a kick that gave the jubilant BHS team a 7-3 lead over the visitors from Lancaster.

Burroughs kicked off to AV and stopped the runback at the 'Lopes 31. On the next play, a 15 yd. penalty against Burroughs was tacked onto a 5-yd. gain on a run by the 'Lopes and the visitors were (momentarily) in good shape at their own 49.

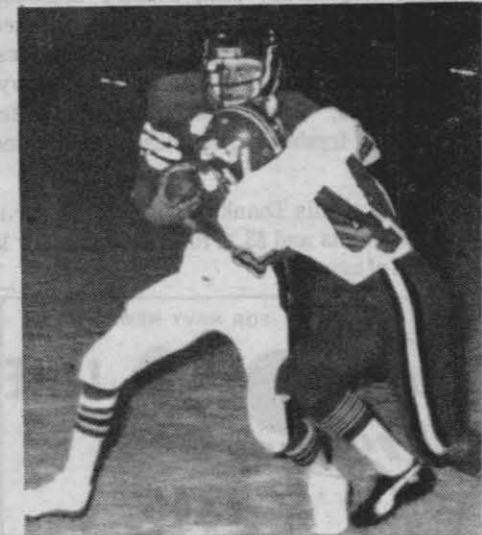
That was quickly changed, however, when Sturgeon picked up a fumbled pitchout that was booted some distance down field before he got his hands on the ball. The fleet BHS halfback was finally downed at the AV 4-yd. line, and Means quickly hit Fulton with a short pass in the end zone for a touchdown that increased the BHS lead to 13-3 with 3½

min. still left to play in the third quarter. The try for the PAT was wide to the right, and that turned out to be all of the scoring in the game by either team.

The Burros defense responded to the challenge of shutting off the Antelopes on offense for the remainder of the contest — quickly forcing the visitors to punt after receiving the kickoff that followed the second BHS touchdown.

The Antelopes could get no closer to paydirt than the BHS 35 yd. line in the fourth quarter. Then trailing by 10 points with 3½ min. left to play, AV made the questionable decision to punt the ball on fourth down and it was booted into the end zone for a net pickup of just 15 yds, after being brought out to the BHS 20 to be put into play there.

Two plays later, with the aid of a 15 yd. penalty, BHS had the ball at midfield with time running steadily out on the Antelopes.



NICE GAIN — The Burros' passing helped to set up runs by halfbacks like James McAlpin (shown above), who is about to be stopped after a nice gain by Paul Steenbrenner (44), a defensive secondary man for the Antelope Valley team.

Forced to punt on fourth down, the Burros were hit by a pair of 5-yd. penalties, Fulton got off a good kick to the AV 25 — only to have it nullified by a penalty for illegal motion before the snap of the ball.

Fulton booted the ball away once again, but this time was flattened by a 10-man rush put on the 'Lopes, who were trying to block the kick. This miscue by AV gave a first down to the Burros, who also retained possession of the ball.

More time elapsed as the Burros ran off three more plays before punting to AV with just a half-minute left to play in the game.

From their own 25, the visitors took to the air and moved the ball to midfield before the gun sounded to end the game with AV on the short end of a 13-3 final score.

Youth Soccer League scores . . .

(Continued from Page 6)

Division 2, the Rowdies got off to an early lead of 1-0 on a goal by Todd Mather. Jared Christensen scored the equalizer for the Express shortly after the start of the second half, and the two teams battled on even terms for the remainder of the game.

A 3-3 tie between the Eagles and Cobras was the best of three games played last Saturday between teams entered in Division 1 of the Youth Soccer League. Other scores were Hawks 4, Roadrunners 1, and Owls 3, Coyotes 0.

Three goals scored by Jarod Gonzalez and a fine game turned in at fullback by Mathew Bullock were instrumental in the Cobras' 3-3 deadlock in their game with the Eagles. Scoring for the Eagles was accounted for by Chris Fischer (2), and Chad Shedlock (1).

The Hawks eased their way (4-1) past the Roadrunners on the strength of 2 goals by Greg Mills and 1 each by John Tipton and Cash Benton. The Roadrunners' single goal was scored by Jonathan Green.

The Owls swept to a shutout win over the Coyotes as the result of goals (1 each) tallied by Tommy Mather, Darrell Eddins and Mike Matson.

With just one more game left to play before the season ends tomorrow, the Monroe Wildcats clinched first place in the Junior High Soccer League last Saturday by defeating the Kicks 3-0. Results of other games played in the Junior High League were Tigers 3, Strikers 2, while the Bengals and Mustangs played to a scoreless deadlock.

The Wildcats have the Tigers to thank for their league crown, since it was the Tigers' second half rally that produced a 3-2 win

Play ends Sunday in Adult Soccer League

Two more games Sunday afternoon at Davideo Field will wind up the current season of play in the NWC Adult Soccer League.

The Rousers and Phoenix will clash at 1 p.m., followed by a 3 p.m. tilt Sunday between the Rebels and Oldtimers.

In games played last Sunday, the league-leading Rebels lost just their second game of the season to Phoenix by the narrow margin of 5-4. Although this puts the Phoenix squad just a game out of first place, barring an improbable upset by the Oldtimers on Sunday, the Rebels will finish the season in sole possession of first place.

Try luck ocean fishing at Morro Bay

Fishermen who want to combine a weekend out of town with catching a load of fresh salt water fish are heading for Morro Bay, where the sport boats are still going out between 7 a.m. and 3 p.m. daily.

Last week those who headed off-shore caught an average of 13 fish apiece. Bass

over the Strikers and delivered the title to the Wildcats a week before the season ended.

Two first half goals by Cary Cooper got the Strikers off to an auspicious start in their game with the Tigers, but the Strikers were shut out in the last half of the game, while the Tigers came on to win the contest with goals (one each) by Brian Collie, Kevin Featherston, and Tim Wee.

The scoreless tie between the Bengals and Mustangs also produced some fine soccer play. Goalies Billy Hugo and James Childers and fullbacks James Bumgardner and Mike Hugo came up with fine performances for the Mustangs. On the opposing side, their play was matched by that of Israel Gonzalez, a substitute goalie; defenders Brian Hayes and David Newport; midfielder Danny Webster, and forward Ricky Bullard of the Bengals.

Navy cagers lose . . .

(Continued from Page 6)

Lakers who made it into the double-figure scoring column were Millard Bell (16), Dorell and Joe Esparza (14 each), and Kent Daniels (12).

On Sunday against the Army squad at Ft. Irwin, it was the NWC varsity's turn to frustrate its opponents by a staunch defense that forced players for the taller Army team to do more outside shooting instead of being able to dunk in layups from under the basket.

As a result, it was a much different game for the local team which, although defeated, lost by just 12 instead of 48 points as was the case when the two teams met here on Oct. 30.

Using a zone defense, the China Lakers were able to get back quicker and slow down the Ft. Irwin fast break offense. It also helped in blocking the opposing team's players away from the backboard.

This rematch with Ft. Irwin was close for the entire 40 minutes, Dorell reported, as the NWC varsity cagers did a good job of getting the Army team out of its game plan, which was to work the ball inside and score at close range.

As it turned out, however, the Ft. Irwin squad had enough sharpshooters capable of hitting from the outside to clinch the win.

Once again McIntosh was the top scorer for the China Lake team, this time with 24 points. He was followed by Bell, who tallied 17, and Basil Robinson with 16.

where the most common fish caught, although rock cod and some ling cod were also pulled.

The prize catch of the week from the Morro Bay boats was a 12-lb. red snapper, which would have provided steaks or filets enough for a dinner party.

Promotional opportunities

(Continued from Page 2)

Criteria: Ability to work with people; ability to maintain a high level of accuracy in work requiring close attention to details; ability to exercise judgment and to work with a minimum of supervision; ability to set priorities and meet deadlines; knowledge of correct grammar, punctuation, and formats for technical reports; knowledge of scientific/mathematical terminology.

Announcement No. B-06-9, Airspace Manager, DA-301-3, PC No. 8106517E, Code 064 — This is a staff position to Code 06. Its purpose is to evaluate proposals, make recommendations, and implement policies pertaining to the development, use and enhancement of land and airspace within the restricted area designated as R-2508. R-2508 is jointly managed by the Army, Air Force and Navy; other users include commercial airlines/private pilots governed by R-2508 policies and FAA regulations. Duties include representing NWC's interests pertaining to the reduction or enhancement of its test range functions; coordinating Navy's input to the R-2508 Enhancement Plan; maintaining liaison with all users of R-2508. Job Relevant Criteria: Knowledge of the R-2508 Complex, restricted areas contained within it, and the missions of its users; ability to work effectively within a joint-service military structure; knowledge of the national airspace system and air traffic control procedures and regulations. NOTE: Applications will be accepted from status and reinstatement eligibles GS-12 and above.

Announcement No. B0-844, Assistant Bowling Center Manager, UA-110' 6, \$14,328 per annum plus full benefits, PD No. 745513C, Code 221 — This is not a Civil Service position. This position is located at the Bowling Center, Recreational Services Department. The incumbent supervises maintenance of pinsetters, lanes and collateral equipment. Assists in the operation of the bowling center pro shop, conducts bowling clinics and training sessions for children and beginner adults. Assists in training personnel in operation of bowling center equipment. Job Relevant Criteria: Must have at least one year experience in the maintenance and management of a bowling center. Submit a completed SF-171 to Room 100 of the Personnel Building at 505 Blandy.

Announcement No. B-06-8, Clerk, GS-303-3, PD No. 8106097N, Code 633 — This is a permanent, part-time position located in the Test and Airspace Scheduling Office, T & E Directorate. Incumbent works with project engineers, test range coordinators, pilots and technicians. Duties include learning how to schedule tests involving weapons and aircraft on the ranges, keeping track of requests from projects and pilots involving use of the test ranges; performing daily aircraft scheduling and learning the Navy and FAA regulations related to use of airspace. Job Relevant Criteria: Ability to apply and interpret rules

and regulations effectively; ability to communicate with all echelons of personnel, both military and civilian. Promotion potential to GS-5.

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NWC varsity hoop squad loses to Ft. Irwin, George AFB

The NWC varsity basketball team, coached by Ken Dorrell, has shown some improvement but is still looking for its first win in the Desert Regional Interservice Basketball League.

The China Lakers, defeated 100-75 last Friday by George Air Force Base and on Sunday 97-85 in a rematch with Ft. Irwin, will be on the road again tomorrow for a 1 p.m. clash at March Air Force Base in Riverside.

As they have so far in every game this season, the NWC varsity cagers got off to an early lead in the contest played at George AFB in Victorville, but couldn't hold onto it.

The airmen put a squad together that had a distinct height advantage over the China Lakers, who rely more on ball handling and quickness. As a consequence, when the host team went into a zone press about midway through the first half and continued it for the remainder of the game, the Airmen drew steadily away to win by a convincing, 25-point margin of 100 to 75.

Leading scorer for the NWC varsity in the game with the George AFB team was Skip McIntosh, who had 18 points. Other China

(Continued on Page 7)

Premier League keglers roll 3-game series of 700 plus

Three Premier (scratch) League bowlers had a hot hand Monday night at Hall Memorial Lanes as they each posted 3-game series scores that totalled more than 700 points.

John Therning led the pack with a 730 series built on single game scores of 224, 249 and 257. Others were Earle Roby (231, 264, 226 — 721), and Lynn Potter (258, 215, 246 — 719).

Sonnenberg Enterprises continued to hang onto the league lead by rolling up a 17-3 win over the Partlow Construction keglers. This is the same margin by which the second place Hideaway squad downed the Turner's Real Estate team. High team game (1,117) and high team series (3,149) were both rolled by the Hideaway.

Other individual standouts, each of whom had a triple 200 series on Monday night, were: Bob Branson (205, 220, 229 — 654), Chris Peterson (211, 200, 213 — 624), and Mark Barkemeyer (202, 213, 201 — 616).

Additional Premier League bowlers who topped the 600 series mark were Pat Nalley (654), Roy Canfield (640), Glen Collins (635), Ron Williams (628), Will Levy (624), Leon Watson (620), Ray Freascher and Ron Jackson (618), Thad Brightwell and Champ Pearman (617), and Eddie Davis (616).

In addition to those already mentioned, bowlers with single game scores in excess of 220 were Collins (255), Gene McCaleb (252), Canfield (245), Levy (239), Freascher (236), Nalley (235 and 226), Jackson (232), Pearman (230), Ron Williams (229 and 225), Hub Zimmerman and Dick Schweitzer (227), Davis (226), Aaron Kane and Bob Curtis (225), and Dave VanderHouwen and Rivest (223).

Current league standings are:

Team	Won	Lost
Sonnenberg Enterprises	120.0	60.0
Hideaway	115.0	65.0
ERI Hustlers	98.0	82.0
Raytheon Sidelwinders	98.0	82.0
Cocky Bull	95.5	84.5
Turner's Real Estate	92.5	87.5
Vitro	90.0	90.0
Elks Lodge	71.5	108.5
Buggy Bath	70.0	110.0
Partlow Construction	49.5	130.5

Burros upset league-leading AV gridders 13-3

David did it again to Goliath! The time wasn't the 11th century BC, and the setting wasn't the ancient Biblical country of Canaan — it was the athletic field at Burroughs High School, where the BHS varsity gridders sent the vaunted Antelope Valley High School squad home smarting from a 13-3 defeat last Friday night.

This loss, the first of the Golden League season for the Antelopes, wasn't just a joyous win for the Burros, it was vindication and reward for the perseverance and dedication of the BHS players and coaches alike for whom, until now, things just haven't gone well at all in 1981.

Defeating the Antelopes, perennial powerhouse squad of the Golden League — that's something else. It puts an all new slant on the 1981 season for the 'Lopes as CIF-playoff bound, while the Burros will be putting the pads away for another year after tonight's final game at Palmdale.

Kick-off time for the Falcons vs. Burros varsity grid matchup is 8 p.m. at Palmdale High, where a preliminary game between each school's sophomore squads is scheduled to get underway at 5:30.



KEY TO VICTORY — The passing arm of Quarterback Danny Means, shown getting off an aerial during the Burroughs vs. Antelope Valley varsity grid tilt, was the key to the Burros' 13-3 upset win over their foes from Lancaster. Means completed 14 of 19 passes, including two that went for touchdowns. Putting the rush on the BHS quarterback is David Baker (No. 64) a guard on defense for the 'Lopes.

Fair weather BHS gridiron fans who missed the Burros upset win over the Antelopes — and that takes in a goodly number of people considering the sparse crowd on hand — have only themselves to blame for being absent from a contest that will be long-remembered by both teams.

The underdog Burros came off the deck like real champions as they adopted a nothing to lose, everything to gain attitude by throwing the ball on any down (except fourth) from any position on the field — including from their own end zone.

Quarterback Danny Means had an exceptional night passing the ball, and his receivers proved adept at finding holes in the sieve-like Antelope secondary, and then hung onto the ball once it was in their hands. The Burros' wide open passing game seemed to help the running game click, as well, and the hardnosed defense proved that it was up to the task at hand.

The result — the thrill of victory for Burroughs and the agony of defeat for an AV team that jogged silently and dejectedly off the playing field following the final gun. Visible in the background were the

scoreboard lights that spelled out the story of what few local fans even dared to hope might happen.

The game began on a note of confidence by the Burros, who went for an onside kick on the game-opening kickoff. Never mind that it failed and gave the visitors good field position on their own 39, the 'Lopes couldn't cash in — even after a 27 yd. gain on a pass from Quarterback Brian Power to Bruce Hill, the flanker, produced a first down at the BHS 35.

Four downs later, when Scott Zito punted out of bounds on the BHS 2, the gutty Burros came out firing the ball — including a new wrinkle, a halfback pass by James McAlpin that fell incomplete.

The Antelopes couldn't complain about field position — they had it once again after a fourth down punt by Scott Fulton gave them the ball at their own 43. On the ensuing series of plays, however, the 'Lopes got their power runner Marco Johnson rolling and moved inside the BHS 40 before Andy Byrd, safetymen for Burroughs, picked off a pass thrown by Power. This turnover gave the Ridgecrest team the ball on its own 10 yd. line.

That's how the first quarter went with AV having the advantage of good field position and threatening but unable to score.

A second punt by Zito nailed the Burros deep in their own end of the field at the 3 yd. line just before the start of the second period of play. The Burros, aided on one series of plays by a 15-yd. penalty against AV, moved the ball out to midfield where, on fourth down punt the over-eager Antelopes ran into the kicker and were penalized 15 yds. to their own 36.

This break enabled the Ridgecrest team to retain possession of the ball, which was advanced to the AV 24 on a pass from Quarterback Means to wide receiver Troy Shull.

The two teams then exchanged fumbles as the breaks evened out and then shifted in favor of the 'Lopes when a pass thrown by Means was intercepted on the AV 23.

Three downs later Johnson broke through the middle of the line on a draw play that gained 30 yds. and a first down at the BHS 45.

With nearly half of the second quarter left to play the Antelope Valley offense alternated between moving the ball and sputtering due to penalties. David Matchett was put into the game to run the AV team from the quarterback position. A long ball thrower, he connected on a pass to Paul

(Continued on Page 7)

Sting edges Surf in hard-fought soccer match

A hard-fought game that resulted in a 3-2 win by the Sting over the Surf highlighted last Saturday's action in Division 5 of the Youth Soccer League, which has two more weeks to go before the season ends.

Two goals by Bobby Hudson, who was able to take advantage of assists on the part of Billy Matlock and Brian Bartels, accounted for the major share of the scoring by the Sting, which also got a goal from Robby Greene on an assist from Andrew Mikelson.

Brian McCrary and Brian Banner tallied 1 goal each in a losing cause for the Surf. Results of other Division 5 games were Diplomats 5, Sounders 0; Kicks 4, Whitecaps 1; Tornado 7, Roughnecks 1; and Hurricane 6, Rogues 1.

The Diplomats, displaying the form that has earned them first place in Division 5, shut out the Sounders on 3 goals by Matt Ziegler and 2 more by Greg Boske. The victors not only moved the ball well on offense, but had a strong defense as well.

Four first-half goals by the Kicks led to a decisive 4-1 win over the Whitecaps. Scoring for the winners was spread around between Paul Lelis, Matt Mechtenberg, Jay Okamoto and Don Ashton, who tallied 1 goal each. The Whitecaps averted a shutout with a goal by Richard Frageman, assisted by Jay Rusciolleli.

The Tornados broke open a 1-1 first quarter tie by scoring 6 more times enroute to a 7-1 defeat of the Roughnecks, whose

lone goal was tallied by Scott Hamilton. The scoring deluge for the Tornados was paced by Jimmy Knight with 4 goals, while Curtis Brune had 2, and 1 goal was tallied by Clint Caffee.

In another one-sided game, 3 goals by Craig Rindt, 2 by Eric Winter, and 1 by Scott Lambert enabled the Hurricanes to breeze past the Rogues 6-1. Phillip Serpanos scored the only goal for the Rogues.

The Boomers and Strikers battled to a 2-2 tie, Thunder edged the Drillers 2-1, and the Timbers smashed the Atoms 5-0 in Division 4 Youth Soccer League play.

The Boomers not only scored twice, but also chipped the ball into their own net to give the Strikers an assist in the 2-2 tie between these two teams. One goal each were tallied for the Boomers by Tim Matson and Jeremy Osburn, while Dean Waldron got into the scoring act for the Strikers.

A defensive struggle between the Thunder and Drillers was won by the Thunder on 2 goals tallied by Marc Frisbee — one on an assist by Ralph Jorgensen. The single score for the Drillers was tallied by Kirk Roberts.

The Timbers' 5-0 win over the Atoms was paced by the 4 goals of Will Freeman and a solo tally by Jeff Hutmacher.

Results of games played between Division 3 teams were a 2-2 tie between the Aztecs and Blizzard, Earthquakes 2, Lancers 0, and Sockers 4, Cosmos 1.

Players for the Blizzard put together their best effort on offense for the season as they

fought their way to a 2-2 tie with the Aztecs. Derek Lindsey and Mark Anderson scored 1 goal each on rebounds for the Blizzard team, but their tallies were matched by those of Matt Pohl and James Jackson for the Aztecs.

Playing shorthanded (9 players to 11 for their opponents), the Lancers came out on the short end of a 2-0 final score in their game with the Earthquakes. Danny Miller and Lance Kirkpatrick took care of the scoring for the Earthquakes by getting 1 goal each.

Despite a good effort by the Cosmos, the Sockers rolled up a 4-1 win on goals by Josh Phillips, Mike Maloney, Mike Bowen and David Canaker. The single goal for the Cosmos was tallied by Chad Bass.

Low scores were the trademark of games played last Saturday between Division 2 teams in the Youth Soccer League. The Apollos and Sunshine defeated the Chiefs and Fury by scores of 2-0 and 1-0, respectively, and the Express vs. Rowdies game ended in a 1-1 tie.

The Apollos shut out the Chiefs — winning on the strength of one goal each by Jeff Gould and Ted Mechtenberg.

A scoreless tie between the Sunshine and Fury was broken in the final period of play on a goal by Tom Watt for the Fury, with an assist from Chris Brown.

In one of the better games of the season in

(Continued on Page 7)

S&E Symposium awards . . .

(Continued from Page 1)

Sea Clutter Effects on the NATO Seasparrrow Missile Performance."

This paper was the combined work of Dr. Alex Shlanta, head of the NWC Weapons Department's Environments Analysis Branch (Code 3918), and Dr. Peter Yu and Dr. Frank T. Wu, who are both physicists in this same code.

Information from proper monitoring of the environment can be used for tactical advantage was the bottom line of the paper prepared by Drs. Shlanta, Yu and Wu. They

Weekend wranglers remove another 30 burros from ranges

Another 30 burros were removed from the emergency area of NWC's inner test range this weekend by wranglers hired by the Fund for Animals, and are on their way to join other animals available for adoption. The Animal Protection Institute will be responsible for caring for the critters until they can be adopted.

The nine wranglers, headed by Rocky Beene, gathered 17 burros on Saturday and another 13 Sunday. They also set a capture corral at the edge of the Mountain Springs Road in addition to the capture corral located near Wilson Canyon by the parachute drop zone.

These corrals will be used in subsequent weekends as a routine monitoring program is established by Fund for Animals wranglers who are trying to keep the NWC emergency area clear of burros. The cold weather is now driving the animals down from the high country of the outer test ranges into the area where they pose an immediate threat to aviators on the Center's aircraft runways and drivers on range roads.

Under terms of an out-of-court settlement between the Navy and the animal protection groups, they agree to keep the inner test range area clear of burros until the Center's long-term burro plan goes into operation by early January.

Next STC meeting to feature NOSC tech communicators

The November meeting of the Sierra-Panamint Chapter of the Society for Technical Communication (STC) will feature two technical communicators from the Naval Ocean System Center, San Diego, and will be held on Monday at 6 p.m. at El Charro Avitia in Ridgecrest.

Dick Frederick, head of NOSC's Graphic Communications Division, will discuss the challenges that new technology presents in the illustration field.

John Smaldino, head of the Technical Information Department at NOSC, who is serving as STC Director/Sponsor for many of the West Coast STC chapters, will discuss activities of the organization at national and regional levels.

Address cards for mailing W-2 forms to be distributed

W-2 address cards for 1981 will be distributed to civilian employees of the Naval Weapons Center along with paychecks that will be received next Friday, Nov. 20.

These cards will reflect the address currently on file for mailing W-2 Wage and Tax Statements to Centerites.

If this address is correct as printed, further action is not required. However, if the address is incorrect, employees should note the correction in the space provided on the card, which is to be returned to the Payroll Office (Code 08641) no later than Dec. 1.

This must be done to insure that the W-2 form is mailed to the correct address.

wrote about a digital computer simulation developed here by Code 3918 employees that has been used to make an assessment of the effects of atmospheric refraction, multipath, and sea clutter on the performance of the NATO Seasparrrow missile (RIM-7H).

It has been found, they reported, that missile performance can be degraded by the effects of atmospheric ducting, multipath, and sea clutter. The combined effects have been found to be more pronounced than one of these single effects acting alone, the co-authors contend.

They also added, however, that although degradations have been found, it does not necessarily imply a negative impact on missile performance. This environmental analysis work also is being extended to other radar guided missiles used by the Navy.

BEST IN WEAPONRY AREA

A third paper prepared by NWC employees was designated the best in the technology area of Weaponry. Entitled "Low-cost, High-performance Arm Seeker Design for Anti-Radiation Projectile (ARP)," it was written by Robert G. Corzine, head of the RF Development Division of the NWC Electronic Warfare Department, and by Joseph A. Mosko, a microwave component consultant in Corzine's division.

Describing improvements that have been demonstrated in work done here to improve the seeker design for the ARP, the paper by Corzine and Mosko makes mention of a solid dielectric lens that is used instead of the usual broadband radome, as well as a new stripline antenna to microwave network connection system for the weapon's spiral antenna.

This latter development makes for a design that is easier to fabricate and reproduce, but at the same time enables increased performance. This new feed design also allows the spiral antenna upper frequency limit to be increased by a factor of three because of the starting radius that is three times smaller than it was previously possible to attain.

OTHER DETAILS COVERED

Other details covered in this technical paper were the invention by Mosko of a new microwave arithmetic network that enables the size of the network to be greatly reduced — compared to previous such designs. The new network allows higher performance to be achieved while being less sensitive to microwave circuit board non-uniformities and shrinkage due to typical etching and fabrication processes.

In addition, Corzine said, there is a new type of stripline coupling device that makes upward frequency extension possible utilizing existing materials and fabrication techniques. The upper frequency limits achieved are the highest ever for multioctave stripline devices.

The Skipper sez



All China Lakers, including military personnel, civilian employees, and their dependents are invited to submit questions to this column. Such queries must be in good taste and pertain to matters of interest to a large segment of the China Lake community. Answers to these questions are directly from Capt. Lahr. Please call NWC ext. 2727 with your question, and state whether you are a military member, civilian employee, or a dependent. No other identification is necessary. There is no intent that this column be used to subvert normal, established chain-of-command channels.

QUESTION

Military — During the Navy Birthday holiday why were the enlisted personnel excluded from the Navy Ball? I called to get tickets and was told since I was enlisted I could not. Why wasn't there any celebration for Navy enlisted members?
Civilian employee and Military dependent — My husband and I did not receive an invitation to the Military Ball, and as far as I can tell none of our enlisted friends did either. We were under the impression that invitations should have been extended to every military member of this Command.

ANSWER

Let me start by saying that I was elated at how receptive the entire community was to have a first class Navy Birthday celebration. When we first started planning the Ball, it was decided to advertise open ticket sales beginning 30 days in advance. By open, I mean everyone on Center was eligible.

In fact what happened was that the word got out through the planning committee it was going to be a dynamite function and several days before the official announcement was to be made we had already received requests for approximately 250 tickets. We were restricted to selling only 220 tickets because of the physical limitations of the club, so we sold the tickets to the first 220 on a first-come-first-served basis.

The ball was not a by-invitation event and all names were accepted as they called in regardless of whether they were officers, enlisted, or civilians. Because the response was so overwhelming, I have directed that we go back to the drawing board and devise a plan for next year that will accommodate everyone who is interested in attending. I expect upwards of 1,000.

I want the Navy Birthday celebration to be a total community event where each of us may participate. I specifically hope that a large number of enlisted people will take the opportunity to attend it. My efforts toward that end when I was Commander of Training Wing Six in Pensacola were bitterly disappointing to me as only a handful of Bluejackets responded to the call.

QUESTION

Civilian employee — I would like to know if contractor employees who are using our Xerox machines, whether or not this function is being performed under their contract or whether they are using our Xerox machines and essentially the Government would be paying for it twice?

ANSWER

Some contracts stipulate that the contractors shall provide their own support including copying equipment and copies, while other contracts stipulate that the Government will provide support services such as copying equipment, paper, etc. A determination is made prior to contract award as to which method will be most advantageous to the Government.

In order to fully reply to your question as to whether "the Government would be paying for it twice," I would need to know specifically to which contractor employees you are referring.

Every effort is made to ensure that contractors and their employees comply with the terms and conditions of the contract. If you suspect a violation of a contract's terms and conditions, you should request clarification from the Contracts Division, phone NWC ext. 2053 or 3801.

QUESTION

Civilian employee — When are people going to be required to move out of old duplex housing; how much time would we have to move out; and would civilians be relocated on base?

ANSWER

The target date for relocating residents of the old duplexes south of East Inyokern Road and north of Entwistle is January 1983. Residents of this area will receive notice early in 1982 from the Housing Office to move.

Civilians who currently reside in this type of housing will be allowed to relocate in base housing if that is their desire.



CONGRATULATIONS EXTENDED — Center employees who presented three award-winning papers at a Science and Engineering Symposium co-sponsored by the Naval Material Command and the Air Force Systems Command were introduced and congratulated during the Commander's meeting held Monday morning. Congratulations were extended by Capt. Lahr

(at left), as well as by (at right) Bob Hillyer, Technical Director, and B. W. Hays, Laboratory Director. The honorees are (l.-r.) Dr. Frank Wu, Dr. Alex Shlanta, James Crump, Bernie Mathis, and Robert Corzine. Two other NWC employees who were also co-authors of the award-winning papers, Dr. Peter Wu and Joseph Mosko, were unable to be present for the photo.

NWC Energy Awareness Week set Nov. 15-21

Vital decisions based on energy cost, availability

The theme of Navy Energy Awareness Week, which will be celebrated Nov. 15-21 at the Naval Weapons Center, is "Energy Is Readiness."

The theme emphasizes the vital role that energy and the cost of energy play in decisions that the Secretary of the Navy and the Chief of Naval Operations must make regarding maintaining and improving force capability and readiness.

For instance, NWC's energy costs have more than doubled from 1975 through 1981, yet, thanks to the efforts of all Center personnel to conserve, energy use is down a whopping 24 percent in the same period.

The Center's electrical energy use — down 21 percent overall during that time (1975-81) with a peak load drop of more than 25 percent — still has resulted in a doubling of the Center's electric power bill.

Conservation, which is based on a continuing awareness of energy, is one of the two cornerstones of the Center's hope for energy-independence for its physical plant and vehicles by the end of the decade. The other cornerstone is the use of alternative energy resources such as geothermal, photovoltaic and other solar energy, wind power, and possibly, solar ponding.

Conservation presents the best opportunity to help the Navy now while the alternative resources are being developed.

CONSERVATION EFFECTIVE

Conservation efforts that have really paid off locally include the delamping, now complete, that reduced electric power use by 6,305,000 kilowatt hours annually; application of Mylar to windows, which is ongoing; more effective use of heating and cooling systems throughout the Center; as well as various relighting projects.

The delamping was most obvious while it was occurring because Public Works Department personnel came to each work site, removed excess lights, and replaced 40-watt tubes with the more efficient 35-watt tubes. This delamping paid for itself in under eight months.

Equally visible were the projects of replacing the street lights with a more effective street light system and modifying the lighting on the ball fields to use metal halide type lights.

The ballfield relighting increased the energy efficiency five times and the life expectancy more than three times over incandescent lights. While actually increasing the lighting levels, 366,000 kilowatt hours of electricity are being saved by the relighting for a substantial cash saving.

Conservation doesn't necessarily have to involve major cuts — any savings help and a lot of small cuts mount up. For instance, an

Register now for free car care clinic during Energy Fair

Enrollments are now being taken for a free car care clinic that will be held during the Energy Fair, Saturday and Sunday, Nov. 21 and 22, at the Desert Empire Fairgrounds in Ridgecrest.

Personnel from the Atlantic Richfield Co. will teach those taking the clinic how to change a tire, check tire pressure, jump-start a car, inspect fluid levels and check the air filter. Reference material and a tire pressure gauge will also be given to participants.

The clinic will be held on Saturday at 11 a.m. and 3 p.m., and on Sunday at 10 a.m. and 2 p.m.

Enrollment is limited, so it is necessary to sign up promptly. Reservations for the class may be made by calling the News Bureau at Cerro Coso Community College, 375-5001, ext. 15.



alert China Laker suggested that the lighted sign at the main gate could be relocated and converted to a fluorescent light. Savings? About 1,250 kilowatt hours of electricity each year.

The Energy Program Office hopes that not only will everyone be alert to such ways to save energy, but also that everyone on-Center will participate in the special "event days" planned for next week.

SPECIAL DAYS PLANNED

Scheduled are carpooling day Monday (think of the charming company you can have!); foot-power day Tuesday (walk, bike, or rollerskate to work and improve your health while you're saving gasoline); power-down day Wednesday (shut off those appliances and lights when you don't have to use them); recycling day Thursday (empty your garage or shelves of newspapers, aluminum cans, and bottles and get them to the Recycling Center to save both energy and new materials); and exhibits' day Friday (when solar power and other displays of alternative power will be set up at the Community Center).

NWC will join with a number of organizations and businesses in a giant energy fair that will be held at the Desert Empire Fairgrounds in Ridgecrest on Nov. 21 and 22, with displays, industrial exhibits, workshops, and some just plain fun activities.



ENERGY SAVERS — NWC is the Navy's lead laboratory for electric and hybrid vehicles, which are being used experimentally here and at other Navy facilities to determine their efficiency.

Energy Conservation Tips

Use fluorescent lighting wherever you can for more lumens per watt. A 40-watt fluorescent lamp gives off 80 lumens per watt and a 60-watt incandescent bulb gives off only 14.7 lumens per watt. The 40 watt fluorescent lamp would save about 140 watt hours of electricity over a 7 hour period.

Install a flow restrictor in your shower. It's easy to install and saves water by restricting the flow to 4 gallons per minutes — plenty adequate for showering. Using more hot water than you really need will cost you money.

Save hot water by installing an aerator on your kitchen sink faucet. This reduces the volume of water per minute — but it's hardly noticeable, and you save on water heating costs.

Be sure that thermostats in your home are not placed on exterior or cold walls. Such placement will keep the thermostat working when the rest of the room has reached a comfortable temperature.

Use small portable appliances, like electric skillets or toaster ovens, when you're cooking small quantities of food. They use less energy and cost less to operate than a full size oven.

Remove any unnecessary weight from the car. The lighter the car, the less gas it uses. An extra 100 pounds decreases fuel economy about one percent for the average car, 1 1/4 percent for small cars.

Avoid unnecessary idling in your car. This wastes a cup of gas every 6 minutes. Don't idle for longer than 30 seconds; restarting will take less gasoline than idling.

Parking in shady areas prevents gasoline evaporation that might otherwise occur if you park in the hot sun.

Check your car's tire pressure regularly. Underinflated tires increase gasoline use. Your car can lose about 2 percent in fuel economy for every pound of pressure under the recommended pounds per square inch.

Need new tires? Consider radials. You'll get more miles per gallon and longer wear.

Eliminate unnecessary trips. Can you find one driving trip per week that could be handled by telephone or combined with another trip? If every automobile took one less 10 mile trip per week, the nation would save 3 1/2 billion gallons of gas a year, or nearly 5 percent of the total passenger demand for gas.

Consider walking, biking or rollerskating instead of driving for short errands. Make the trip a relaxing, enjoyable and healthy excursion, rather than an irritating and boring drive through traffic.

Rotarians choose Summer for Internat'l Exchange Program

A trip to the Philippine Islands will be upcoming for Don Summer early next year, thanks to the Rotary International Group Study Exchange program.

Summer, who is a specialist in the Employment Wage and Classification Division of the Personnel Department, will join four other non-Rotarians from local District 531 on a six-week stay overseas.

The Group Study Exchange, an educational activity of the Rotary Foundation, offers a unique person-to-person opportunity for the promotion of better understanding and friendly relations among the peoples of the world.

The program provides travel grants for exchange of teams of business and professional men between the ages of 25 and 35 to visit Rotary Club Districts in different countries, thus enabling the participants to study the institutions and ways of their hosts, and to develop personal acquaintances and exchange ideas.

The men stay with various families in the host districts, visit places of historical and cultural interest, as well as farms, factories and places of business, and also observe government and educational activities.

Richard M. Johnson, assistant department head for the Electronic Warfare Department, calls his trip to India and Sri



PIONEER — Actress Barbara E. Rowe will portray Women's Rights pioneer Susan B. Anthony on Wednesday evening, Nov. 18, during the entertainment portion of the Federal Women's Program Awards banquet at the Enlisted Mess. A social hour at 6 p.m. precedes dinner, with a variety show and Ms. Rowe's presentation to follow. The evening will end with the presentation of Woman of the Year, Supervisor of the Year, and Department of the Year awards.

Open season for health benefits postponed indefinitely says OPM

The Office of Personnel Management (OPM), Washington, D. C., announced this week that "Open Season" for health benefits has been postponed indefinitely.

The reason for the postponement is that OPM has not yet reached an agreement with a number of the health benefits carriers regarding premium costs and benefits coverage.

There is no indication from OPM that an open season will be scheduled in the near future.

NWC employees with questions regarding this matter are asked to all NWC ext. 2018 or 2592.

The following toll-free numbers can be called by employees who wish to get in touch with their health benefits carriers:

- Government Employees Hospital Association (800) 821-5244
- Blue Cross/Blue Shield of Southern California — (800) 382-5666
- Aetna Life & Casualty — (800) 742-1846

Happenings around NWC

Thanksgiving is nearly here and all active duty military personnel are reminded that they need to purchase tickets for the big Thanksgiving dinner at the Enlisted Mess if they are on commuted rations or if they have either dependents or guests who wish to join them for that meal. Only 250 tickets will be sold.

Tickets may be purchased at the Enlisted Dining Facility in Bldg. 880 at the main site of the Center during normal working hours, or at the Enlisted Dining Facility's Airfield Annex, Bldg. 20149, from 9 a.m. until 2 p.m. Monday through Friday.

Military on commuted rations will be charged \$2.50 for their meals; officers and civilian guests, \$3.30; and children under the age of 12, \$2.25.

BOOK FAIR SLATED

The Jewish Women's Club of the All-Faith Chapel will hold a book fair and gift shop tonight in the east wing of the chapel from 8:30 to 9:30 and tomorrow from 10 a.m. until 2 p.m. at Chapel Annex No. 4.

Unique gifts, Hanukkah candles, textbooks for learning conversational Hebrew or for Bible study, adult and children's books on a variety of subjects, and dance records and instructions for folk dances will be offered for sale.

Anyone seeking further information may telephone either Laurie Saikin at 375-1427 or Peggy Busch at 375-7712.

FILM SLIDE SHOW OFFERED

As a community service to the clubs and organizations of the Indian Wells Valley, the China Lake Photographic Society has prepared a variety of color film slide shows that are available for use.

The subjects covered in the film slide shows range from desert scenes, wildflowers and the bristlecone pines, to those taken while riding an old steam-powered railroad train from Durango to Silverton in Colorado. Still others feature autumn foliage colors in New Hampshire and travelogues about European countries that have been visited by Photo Society mem-

bers. Club and organization program chairmen interested in scheduling one of these film slide shows can obtain a list of the programs that are available by calling Betty Curtis at 446-4814.

FMA LUNCHEON TUESDAY

In connection with the Center's Energy Awareness Week activities, the speaker at the Federal Manager's Association luncheon on Tuesday will be C. B. Kelly of the Atlantic Richfield Co., who will talk about the need for energy alternatives.

The lunch, which will be at the Enlisted Mess, is open for anyone who is interested in energy. Those who wish to attend are asked to telephone Cathy Bosma at the Enlisted Mess by calling 446-6929 to ensure that adequate seating will be available.

NAVY LEAGUE DINNER

Anyone who would like to attend a dinner meeting of the Indian Wells Valley Council of the Navy League to be held at the CPO Club on Wednesday evening, Nov. 18, may still make a reservation today.

Col. John Tyler, USMC, will be the principal speaker. His talk will begin following a social hour at 6 p.m., with a dinner scheduled at about 7 o'clock.

Navy League members and guests will dine on 12-ounce T-bone steaks with all the trimmings at \$8 per person.

To make a reservation, please telephone 446-7244 or 446-5488.

SEMINAR STILL OPEN

Anyone who would like to attend a seminar on aircraft/stores/suspension compatibility Tuesday and Wednesday that has not yet registered should telephone Andy Victor at NWC ext. 2824 promptly so that adequate seating can be arranged.

The process involved in obtaining flight certification — approval for service use — will also be a prime topic at the seminar, which will be conducted by Cdr. Wayne Hanley, Harry Lehman, and Fred Pierce, of AIR 530.



Don Summer

Lanka in early 1978 under the Rotary International Group Study Exchange Program "one of the outstanding experiences of my life." Johnson is the only other local man who has ever been selected to take part in this Rotary-sponsored program.

Summer, a graduate of California State University Fresno with a degree in industrial technology, came to NWC under the management internship program in 1976. His experience prior to coming to the Center included a year of working for a container manufacturer in Sanger, Calif., as well as working as a telephone installer when he first got out of the Army.

Since being at NWC, he has served as a back-up to a Personnel Management Advisor before becoming a PMA. His current assignment includes being a general resource for PMAs as an employment classification expert, as well as being the coordinator for the administrative junior professional program and for the handicapped employee program.

Summer and his wife Bessie are the parents of Jeremy, who will be two years old in January.

Joining Summer on the trip will be an administrative assistant to a California Assemblyman, a pharmacist, a student farmer from Cal Poly San Luis Obispo, and an entomologist. One Rotarian will accompany the group.

Police reports . . .

The fenced and locked compound at 71 Parsons Rd. that encloses offices of the Fuze and Sensors Department was entered by a burglar sometime over the past weekend.

Employees returning to work on Monday morning found that an unlocked room used to house two vending machines was the prowler's target. The burglar broke into the coin box of a soft drink machine, but was unsuccessful in efforts made to pry open the coin box on a candy vending machine.

Loss as a result of the burglary was set at \$30, including \$26.80 in coins and \$3.20 in damage to soft drink cans.

GOV'T VEHICLE DAMAGED

Vandals struck a government vehicle left over the past weekend in the parking lot at Bennington Plaza.

Damage estimated at \$350 was caused by battery acid after the battery was removed from the vehicle and placed upside down on the hood of the machine.

BATTERY STOLEN

A 12-volt automobile-type battery turned up missing last week from a trailer that is set up at Armitage Airfield and used to house a computer.

Theft of the battery, valued at \$50, was reported on Nov. 5 to China Lake police.

VANDALISM REPORTED

The occupants of Navy housing quarters at 2020 Lauritsen Rd. called China Lake police Sunday night to report damage to a window at their residence caused by a passerby who tossed a piece of metal at their house.

The cost of replacing the window, which was cracked, was set at \$50.

Solar energy . . .

(Continued from Page 1)

Councilman Jeff Grossman who was another of the city officials present at last Friday's press conference.

To give municipal authorities a better idea of what is proposed, arrangements were made for a visit on Nov. 5 to the Southern California Edison Company's 10-megawatt solar-powered electric power production test facility now nearing completion at Daggett — a desert town located east of Barstow.

The same technique that is being used by Southern California Edison will be utilized in the local area. According to Dave Henderson, local district manager for the public utility, turbines at the Daggett plant are scheduled to roll in January and the plant will begin electric power production next June.

Prime requisites for location of the solar energy power plant proposed in the local area is proximity to existing electrical power transmission lines and a good source of water for conversion into steam that will move the electric power-producing turbines.

Here for the presentation to the city officials on the proposed 500 megawatt solar power plant were Tom Damberger and David R. Beck, from the Consort of Alternate Energies; and Gerald G. Johnson and Paul A. Curto, of Gibbs & Hill, Inc.

Those in the audience, some of whom later made the trip to Daggett to inspect the progress that has been made by Southern California Edison on the test facility there, were:

From the City of Ridgecrest — Mayor Hockett, Vice-Mayor Anna Marie Bergens, Councilman Grossman, City Administrator Bill Eichenberg, and Finance Officer Roger Ward.

From the Naval Weapons Center — Garyl Smith, head of the Energy Program Management Office, and Richard Walters, head of the Energy Conservation Program.

Others present were Henderson and William D. Hand, of the Southern California Edison Co., and Michael K. Apt, representing the Committee for Energy Awareness.