Museum slates trip to bristlecones on

Aug. 9, 10 weekend

The Maturango Museum's annual trip to the Bristlecone Pine Forest - home of some of the world's oldest living trees - will take place on the weekend of Aug. 9 and 10.

Campers who would like to join the group can camp in the Grandview Campground on the road to the Bristlecones Saturday night. All those who participate in the trip are to meet at the Shulman Grove at 10 a.m. Sunday and proceed from there.

The twisted and gnarled bristlecones show the effect of up to 5,000 years of wind and weather, making them a photographer's delight.

Sturdy shoes are a must for anyone planning to join the field trip. Recommended also are a sack lunch, sunglasses, and a light sweater or windbreaker because even midsummer temperatures at such a high elevation can be cool.

The Bristlecone Pine Forest can be reached by driving north on Highway 395 to Big Pine, turning on a well-marked road (Highway 168) and following it to the turnoff for the bristlecone area. The drive from Ridgecrest to the bristlecones takes about three hours.

Those planning to attend are asked to contact the museum secretary by calling 446-6900 no later than Friday, Aug. 8.

Sea Cadet Squadron swimming party planned at CPO Club

A swimming party for current and prospective members of the Naval Weapons. Friday, Aug. 8, starting at 7 p.m. at the Chief Petty Officers' Club swimming pool.

Parents of Sea Cadets and boys and girls 14 through 17 years of age who are interested in joining the squadron are invited to attend this affair, which has been arranged by the Indian Wells Valley Council of the Navy League.

Swimming from 7 to 8 p.m. will be followed by a snack of hamburgers, hot dogs, and potato and macaroni salads.

There is a charge of \$4 each for adults who attend, and reservations, which can be made by calling Tom Andress, Jr., at either 446-5763 or 446-5914, are due no later than Sunday, Aug. 3.

Young people or their parents interested in obtaining information about the Sea Cadet program can call George Myer, the Navy League's second vice-president and chairman of the Sea Cadet program, at 375-

Books at Center Library open wide vistas to readers

By Elizabeth Wilkie

The Center Library invites its readers on an arm-chair journey to visit history's most wonderous architectural monuments.

The "Wonders of Man" is an 18-volume set recently added to the library's collection. This is a series of illustrated histories, each focusing on a well-known monument.

Each volume is divided into three major sections: a lively and informative history of the monument, written by a distinguished and authoritative writer, illustrated in color and black and white; a section of literary excerpts about the monument; and a comprehensive reference section.

Monuments included in the series are: The Statue of Liberty, The White House, The Colosseum, Tower of London, The Taj Mahal, Hagia Sophia, The Kremlin, The Alhambra, El Escorial, The Forbidden City, Venice, Kyoto, Notre-Dame de Paris, Versailles, The Pyramids and Sphinx, Dome of the Rock, The Parthenon, and Teotihuacan.

Readers are invited to choose their destination, sit back, and enjoy a breathtaking journey through the "Wonders



BOO! — Young customers of the Navy Exchange retail store's "Over the Rainbow" sale last weekend retreat in delighted terror from the Wicked Witch (Sue Vacca), who appears in the CLOTA production of "The Wizard of Oz." Besides aiding in the NEX promotional sale, "Wizard of Oz" cast members also sold tickets for their production that opens a five-performance run tonight.

Curtain will go up tonight on CLOTA production 'Wizard of Oz'

the Burroughs High School lecture center on the Community Light Opera and Theatre Association (CLOTA) production of the well-known musical "Wizard of Oz."

Center Sea Cadet Squadron will be held on 7:30 p.m. Saturday and at 2:30 p.m. Sunday, as well as on Friday and Saturday, Aug. 8 and 9 at 7:30 p.m.

Cynthia Eaton, a 16-year-old Burroughs High School student, will appear in the feature role of Dorothy, who is escorted by a group of Munchkins ("little people") to the Emerald City in the Land of Oz.

Other major parts enacted by young people in this CLOTA production are those of the mayor and the farmer, who are portrayed by Scott Williams and Ricky Vaughn, respectively.

All told there are 15 Munchkins and 20



(Comedy, rated PG, 119 min.) SUNDAY "AND JUSTICE FOR ALE" Jack Warden and Al Pacino (Melodrama, rated R, 119 min.) WEDNESDAY AUGUST 6

"FOR THE LOVE OF BENJI" Starring Patsy Garrett and Benji (Comedy-drama, rated G, 113 min.) 2 p.m. Matinee "ROLLER BOOGIE" Starring

Linda Blair and Jim Bray (Comedy-drama, rated PG, 104 min.) FRIDAY, SATURDAY AUGUST 8, 9 "ALL THAT JAZZ"

Roy Scheider and Jessica Lange (Drama, rated R, 123 min.)

The curtain will go up tonight at 7:30 at "Wizard of Oz," which is directed by Rebecca Conner.

Elena Vitale will be seen as the wicked witch, Tim Varnhagen is the lion, and Gregory Cote has the role of the scarecrow. Repeat performances are scheduled at The actors and singers are accompanied by an 8-piece orchestra.

> In addition to Williams and Vaughn, other young people who appear on stage as Munchkins are Michelle Brauer, Melissa Cleland, Angel and April Hamlin, Wendy Hammond, Timothy Matson, Tanya Rockdale, Jay Rusciolelli, Can Smith, Chrissy Stout, and David Williams.

> "There is something special about young people in their energy and enthusiasm," the director stated. "I hope local residents will come to see the 'Wizard' and share in the excitement of these young performers," Ms. Conner said.

> General admission is \$3, except for students, senior citizens and enlisted military personnel, who will be admitted for tickets priced at \$2.50 each.

> Tickets can be purchased in advance from members of the cast or in Ridgecrest at the Gift Mart and the Ridgecrest Pharmacy. They also will be on sale at the BHS lecture center box office prior to each

Sale of recreation items set Aug. 8, 9 at Community Center

A clearance sale of merchandise from the Hobby Center, the Auto Hobby Shop, and the Golf Pro Shop will be held on Friday and Saturday, Aug. 8 and 9, in the Community Center's Panamint Hall.

This event, sponsored by the Recreational Services Department, will be held from 2 to 8 p.m. on Aug. 8, and from 10 a.m. to 2 p.m. on Aug. 9.

The sale is open to all active duty and retired military personnel, as well as Department of Defense Civil Service employees.

Merchandise up for sale will include hats and clothing from the Golf Pro Shop; artists' supplies, and model railroad kits and supplies from the Hobby Center; and tools, air filters and tire chains from the Auto Hobby Shop.

Prices will be reduced from 20 to 50 percent during this special clearance sale.

Metal Trades Council

The Indian Wells Valley Metal Trades Council will hold its next regular monthly meeting on Thursday, Aug. 7, at 65-B Halsey. The meeting will begin at 7:30 p.m.



Commissioned Officers' Mess

Tonight for those members and guests who wish to partake of a seafood meal, the Commissioned Officers' Mess will have as its main items on the menu a fisherman's delight in seafood choices.

Next Thursday is Italian Night in the COM dining room, and those in attendance may order spaghetti and meat sauce (all one can eat) for \$2.95 for adults, and \$1.50

A steak cookout on the patio is planned for next Thursday, Aug. 7. Top sirloin, country potatoes, corn-on-the-cob, and hot biscuits and honey will be the main items on the

Dinner on Tuesday and Thursday will be served from 5 to 9 p.m.; and tonight from 5 to 10 o'clock.

Another gala Membership Night is in store for COM members and guests on Saturday, Aug. 9.

From 6:30 to 9 o'clock the COM dining room staff will serve a full course dinner consisting of a green salad, Mariner Cornish hen, baked potato, vegetables, and

On hand to play for the listening and dancing pleasure of COM members and their guests will be Frederick & Co., a Los Angeles-based musical group that specializes in "oldies but goodies." Dancing will begin at 8 o'clock and continue until

The cost of this evening of dining and dancing is \$4 for COM members and their spouses, and \$5 for guests. Reservations, which are due no later than 5 p.m. next Friday, Aug. 8, can be made by calling the COM office at 446-2549.

Chief Petty Officers' Club

The Country Associates, a local 5-piece combo led by Bob Lemon, will be back for a return engagement tonight from 8:30 to 12:30 at the Chief Petty Officers' Club.

CPO Club members and guests are invited to enjoy dinner from 6 to 9 o'clock, selecting from a menu that will feature prime rib of beef or Icelandic cod as the

Plans also were announced this week for the CPO Club's annual Hawaiian-style luau that will be held on the evening of Saturday,

Feature attraction of the evening will be a Polynesian Extravaganza that is to be staged by Tiara Productions, Inc., of Huntington Beach, Calif.

The dancing, music and stage show, which is scheduled at 9 p.m., will be preceded by an Hawaiian-style luau buffet that will be served starting at 7 o'clock.

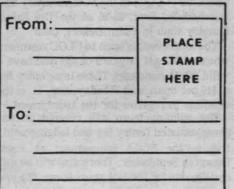
Tickets, priced at \$12.50 per person, are now on sale at the CPO Club office, and reservations must be made no later than Tuesday, Aug. 26.

Enlisted Mess

"Millenium," a 5-piece rock-music combo from the Los Angeles area, once again will be entertaining the patrons of the Enlisted Mess this evening from 9 o'clock until 1:30

Surf n' turf will be the main entree on the menu tonight, from 6 to 8:30 p.m. in the EM

U.S. Government Printing Office:





August 1, 1980

Vol. XXXV, No. 31

Energy Poster Contest Winners 2 Special Achievement Award Presented . . . 3

INSIDE ..

Computer Science Div. Grows 4 Three Injured in Aircraft Crash 5 'Wizard of Oz' Opens Tonight 8

Hot weather Commander's Award for excellence in hits local area mission support given to 5 employees later than usual

Hot summer weather, which took longer than usual to arrive this year in the local desert area, is definitely here.

John Gibson, weather forecaster assigned to the Naval Oceanography Command Detachment at Armitage Airfield, reports that this summer's hot weather began on July 15, when the maximum temperature hit a high of 104 degrees.

Since mid-July, the maximum temperature has been hitting around 109 or 110 degrees daily. High mark was the 111 set last Friday, July 25. Cooling off at night also has been a problem. Highest minimum temperature of the season was 81 degrees recorded last Monday night - a day on which the mercury soared to a high of 109.

Cause of the local heat wave, Gibson reports, is a region of high barometric pressure that has been sitting over the midwest and producing record heat there. This high recently expanded and slipped to the west - bringing hot weather to the local

While the westward shift did bring rain showers and some lowering of high temperatures in the midwest, it will continue to be unusually warm in that part of the country for the remainder of the summer as the high responsible for this hot weather fluctuates from the midwest to the east coast and then back to the west coast. Gibson explained.

During hot weather, humidity in the barren, unlandscaped area at Armitage Airfield has ranged between 15 and 25 percent. In the housing area and com- fired? munity of Ridgecrest, however, the humidity will always be higher because of lawns, trees and shrubs.

Because evaporative coolers are less efficient when there is humidity in the air, discomfort due to the heat and humidity is



pyramid paperweight symbolic of the Commander's Award for Excellence in Mission Support to (I. to r.) Dr. Clifton E. Stine, Richard D. Malone, Garyl Smith, and Richard D. Fulmer. The award was given in recognition of their outstanding work with the Energy Program Office during Fiscal Year 1979 for which the Center received the Secretary of the Navy Energy Conservation Award.

High Hazard X-ray System

Proves value in finding cause of rocket motor malfunctions

How does one determine the possible cause of a rocket motor malfunction when, after ignition, the rocket motor propellant is rapidly burned up and there is virtually nothing left to examine after it has been

Available as one of the best, and the only X-ray systems in the free world for finding solutions to this problem is the NWCdeveloped and operated High Hazard Real Time X-ray System, a diagnostic tool used by rocket motor designers that is found in the Ballistics Test Branch of the Range

LENS ADJUSTED - Jon Rogerson adjusts the lens on an image intensifier that is

used to bring light up to a high enough level where phenemona occurring during

the rapid burning of a rocket motor propellant can be photographed. Using an

image intensifier is one of the steps that can be taken to insure desired test results

while operating the High Hazard Real Time X-ray System.

Department's Ordnance Test and Evaluation Division.

Jon Rogerson, an electronics technician who is the designer and operator of the system, is involved in work on improvements to this system, which is capable of dynamic testing of rocket motors up to 100 in. in length.

This is done by using equipment to generate X-rays and a high efficiency image system to produce real time X-ray television images of what is transpiring as a rocket motor is burning. The importance of this tool is that by having the capability to display X-ray images of internal rocket motor phenomena, the rocket motor designer can get information that is obtainable in no other way.

Because no hardware modification is required, such tests have no effect on the tested.

The system is not intended to compete with static radiography, but only to produce dynamic data. However, through the use of digital video image processors, film quality can be approached in clarity of detail.

This special type of work has been underway since 1966 in the Skytop test area, but it has been modified and improved in many ways since that time. Initially 16mm film was used to record rocket motor test phenomena, but now there is the real time television system whose latest improvement is the addition of X-ray equipment that has been installed permanently at the test bay.

By the use of X-ray coupled with a real time TV system that records data on tape, information is acquired that, when analyzed, can pinpoint problems related to propellant burn rate or propellant grain performance during burn, integrity of the liner / insulator bond during firing, rocket nozzle performance, and other internal rocket motor characteristics.

The High Hazard Real Time X-ray (Continued on Page 3)

At Monday morning's Commander's meeting, five Naval Weapons Center employees were recognized for their support of the Center's mission by being presented the Commander's Award.

Richard D. Fulmer, Garyl Smith, Dr. Clifton E. Stine and Richard D. Malone were honored for their contribution to the Center's energy conservation program; their contributions were vital in NWC being selected as the best large Naval activity in energy conservation for Fiscal Year 1979. Mrs. Peggy J. Flagg was honored for her service as Department of State Passport Agent designee for July 1977 through June

The award consists of a letter of commendation from the Commander, a pyramid-shaped paperweight inscribed



PASSPORT EXPERT - Mrs. Peggy J. Flagg, Senior Security Clerk in the Safety and Security Department, received the Commander's Award for **Excellence in Mission Support for her** work expediting passports for the Center's travelers.

with the name of each winner, information on the specific mission-support related achievement and the signature of Capt. W. B. Haff, NWC Commander, and the date of the award. Each recipient also receives a monetary stipend for this special type of outstanding performance recognition.

Fulmer was Director of the Energy Program Office during the period of time (Continued on Page 3)

Freeze placed on hiring of full time permanent workers

A freeze on hiring full time permanent employees in all elements of the Naval Material Command was imposed last week to assure that civilian personnel ceilings can be attained by the end of this fiscal year. Commitments made prior to the announcement of the freeze on July 23 may be honored, but, where possible, entry on duty dates should be deferred to Oct. 10, 1980.

The freeze was made necessary by a drop in the anticipated attrition rates (employees leaving government service or retiring); civilian employment on June 30 in NAVMAT was 1,638 above the ceiling set under Presidential directive because of the lower rate of attrition among Civil Service em-



WINNERS — Taking the three top awards Navy-wide in their age bracket in the 1979 Department of Navy Energy Awareness Week poster contest were (I. to r.) Cathy Dibble, third place; Gabriela Garcia, first place; and San Greenmum, second place. The young winners show reproductions of their winning posters.

Three local youngsters win top awards in Navy poster contest

Naval Weapons Center entries swept first, second and third place nationally in the Department of Navy Energy Awareness Week 1979 poster contest in the age 7 to 11

Six additional posters submitted by the NWC Energy Program Office received either honorable mention or special mention awards in the contest entered by Navy commands throughout the world.

All posters submitted were divided into three age categories: 3 to 6 years, 7 to 11 years, and 12 to 16 years. NWC submitted posters only in the first two age categories.

Winners were Gabriela Garcia, 10, first place; Sam Greenmum, 11, second place; and Cathy Dibble, 9, third place. Those who received honorable mention were Niki Good, 6; Jennifer Janson, 6; Troy Taylor, 6; and Robert Scanlon, 11. Special mention awards were won by Lisa Kroll, 11, and Turi Loewen, 8.

In a ceremony held on Tuesday, winners were presented with certificates signed by Secretary of the Navy Edward Hidalgo and countersigned by Adm. Thomas B. Hayward, Chief of Naval Operations. The certificates were presented by Capt. W. B. Haff, NWC Commander, and Harold Hockett, mayor of the City of Ridgecrest.

Capt. John R. Ives, Public Works Officer, officiated at the ceremonies that were attended by the winners, their parents and mand and the staff of the Energy Program

said, everyone must be aware of the need to everyone that we need to save energy."

The Rocketeer

Official Weekly Publication

Naval Weapons Center

China Lake, California

Captain W. B. Haff

conserve; success in this goal at NWC has resulted in a drop of 25 megawatts of peak electrical use down to 14 megawatts peak use, and it is the cooperation of everyone of all ages that has enabled these savings to be

Richard D. Fulmer, who headed the NWC Energy Program Office when the contest was held, expressed the feeling of the Navy that the poster contest is an important part of Energy Awareness Week because the future of the boys and girls participating would be affected greatly by how successfully today's conservation goals are

"My sons are quick to point out to me that I'm wasting energy if I go out and leave the light on in a room," Fulmer said, "and I'm sure that all the boys and girls who took part in the contest will be just as quick to remind their parents of ways to save energy."

During Navy Energy Conservation Awareness Week last October, Mrs. Barbara De Vries, from the Energy Program Office staff, spoke about energy conservation to children at each of the public schools in the Indian Wells Valley as well as at private and parochial schools. Children were invited to enter the Navy Energy Awareness Week poster contest; 598 posters were received from local children.

Winners were selected by the Energy Program Office staff for each grade level friends, representatives of Center Com- and each school. The winning posters were then forwarded for Navy-wide judging.

"The other posters are winners, too," said Capt. Ives noted that NWC has been ac- Fulmer. "They've been exhibited in local tively concerned with energy since 1973 stores and in various buildings around the when the first energy crisis relating to Center. The original drawings that the boys and girls have made are far more effective To pursue the goal of conservation, he than any printed poster in reminding

Promotional opportunities

Applications (Standard Form 171) should be put in the drop box located at the Reception Desk of the Perel Department, Bldg. 34. Unless otherwise specified in an ad, applications for positions listed in this 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 lunities column does not preclude the use of alternate recruiting sources in filling these positions. The lling 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 sitions 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 super visory appraisal if it can be obtained, and any tests, medical examinations, interviews, and suppleme lifications 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

Announcement No. 0308, Budget Analyst, GS-560-5/7, PD No. 7708037, Code 0832 - This position is located in RMA Branch A, Budget Division, Office of Finance and Management. The incumbent provides services, to one or more of NWC's operating departments, including guidance umbent is responsible for all phases of budget execution, formulation, control and monitoring of direct, overhead, and capital budgets. Job Relevant Criteria: Ability to gather and analyze raw financial data; ability to prepare clear and concise written comnunications; ability to make effective oral presentations. ability to deal tactfully and effectively with others. Promotion potential to GS-11.

ROCKETEER

Announcement No. 0408, Supervisory Computer Systems Analyst, GS-334-12, PD No. 8008003E, Code 0842 - The

Reassignment opportunities

This column will be used to fill only engineering and scientific positions through reassignment and through promotion to positions with equal promotion potential. For this reason, the Reassignment Op-Promotion Opportunities column in the Rocketeer Applications will only be accepted from employee Applications will be accepted until the date stated in the announcement. Employees whose work history has not been brought up to date are encouraged to file an SF-171 or 172. All applicants must meet minimum qualification requirements established by the Office of Personnel Management. Information and the evaluation methods used in the reassignment opportunities may be obtained from Personnel Management Advisors (Code 096 or 097) Applications should be filed with the person whose Weapons Center is an Equal Opportunity Employer.

Electronics Engineer, GS-855-9/11/12, PD No. 7964012E, Code 6422 — This position is located in the Test Support Branch of the Test Engineering Division, Parachute Systems Department. The incumbent designs, develops, ests and evaluates electronics systems used in the testing of parachutes and other deceleration systems. The innbent must also arrange for in-house or off-Center acquisition of the equipment, oversee its installation and evaluate it in the test situation. To apply for this ssignment opportunity, contact Wally Fung, Code 642, phone ext. 2135. incement No. 3614, Engineering Technician, GS-

802-11, PD No. 7936111N, Code 36403 - This position is located in the Production Engineering Office, Engineering rototype Division, Engineering Department. The in ent will be responsible for providing practical nowledge of current production technology utilized by industry to produce complex weapon systems and for incorporating this knowledge into weapon systems designs, nizing the risk of going into production with a system that dictates inefficient processes, thereby maximizing of technical data packages to assure that the composite of characteristics and features of the design allows for He/she will be responsible for the development and application of appropriate producibility standards and and evaluation of a contractor's plant in order to deterr his capability to produce a weapon system as defined in a ement data package. Job Relevant Criteria: Technical working knowledge of complex weapons systems design; knowledge of the fundamentals of product design, production planning, tool engineering, manufacturing processes, and quality control; knowledge of the economics of the total manufacturing process and be able modifications to an operational sequence; ability to evaluate manufacturing proposals submitted by contractors to determine their relative merit and impact on a total weapons system; ability to establish and maintain good working relationships with both technical and managerial personnel and exhibit tact when recomng changes. File applications with Gordon Reymore, Wednesday Noon Bible Study

Training classes



classes students should submit NWC Training Form #2410 73, via department channels, reach Code 094 before the deadline listed. If handicapped indicate need for first floor room location on training request.

CSCI 325 Hybrid Computation and Sequential Optimization Methods (3); Prerequisite: CSCI 125 or 126 or appropriate programming background. Aug. 18-22, 7:30 to 11:30 a.m.; Sept. 6, 7, 20 and 21, 8 a.m. to 4 p.m.; Training Center. Instructor: Dr. Ralph C. Huntsinger, California State University, Chico.

cumbent will be responsible for the internal operation and management of the operations support branch and for providing automated data processing programs for ent operations. Job Relevant Criteria: Ability or potential to supervise an organization; knowledge of ADP programs and procedures; ability to communicate effectively orally and in writing. ent No. 24008, Lead Firefighter, GS-081-6, PD

No. 7824035, Code 242 - This position is located in the Fire Division of the Safety and Security Department. Infighting apparatus and its crew. Duties include answering fire alarms; instructing crew in operation of fire equipment and all phases of fire fighting, and directing fighting of fires in absence of high authority. Job Relevant Criteria Knowledge of fire prevention practices and ability to hazards: ability to communicate with others effectively both orally and in writing in working out solutions to motivate, train, and work effectively with subordinates who have a variety of backgrounds and training; ability to plan own work and carry out assignments effectively; nonstrated potential ability to plan initial attack, including rescue, and the efficient control and extinguishments of fires; knowledge of locations (streets, water distribution, alarm/detection systems, building contents/layouts, etc.). This announcement will be used to establish the promotion register for Supervisory Firefighter, GS-081-6, which will remain in effect until January 1981. Supplemental forms are required and must be picked up from receptionist in the Personnel Office and rned with a completed SF 171 by Aug. 8, 1980. Innouncement No. 26-009, Maintenance Foreman, WS-

4701-10, JD No. 8026051E, Code 26424 - This position is at the first full supervisory level in the Mainter Division, Electrical and HVAC Branch, HVAC Shop, Public Works Department. The incumbent plans sequence of operations and work steps of employees who repair, maintain, and install refrigeration and air conditioning equipment. Incumbent interprets blueprints and in structions as required. Works from oral instructions or written instructions. Plans distribution of workload amon subordinates and assigns work to employees. Must be familiar with the theory, practice, techniques and work methods of trades supervised. Must have ability to read and interpret to others blueprints, diagrams specifications, manuals and technical directives sumbent requisitions tools, materials and equipmen eded. Directly supervises air conditioning equipmen nechanics, air conditioning equipment mechanic helper and boiler plant equipment mechanics. Job Relevan Criteria: Ability to supervise; technical practices; ability to interpret instructions, specifications, etc.; knowledge of materials; knowledge of pertinent tools and equipment in and potential to manage people problems (EEO). File SF-171 and Supplemental Wage Grade formation sheet to be received not later than



Sunday School-All Ages 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.

Thursday Men's Prayer Breakfast 0630 ROMAN CATHOLIC

0830-1130 Sunday Nursery, Chapel Annex 1 0815-1245

Daily except Saturday, 1135, Blessed Sacrament CONFESSIONS 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 "In Home" Discussion Groups Contact Chaplain's Office for specifics.

JEWISH SERVICES EAST WING -- ALL FAITH CHAPEL Sabbath Services every Friday CHAPEL ANNEX 95

Services—(Sept. May)

1930

Varied recreation activities for youth planned



HOT ACTION — A temperature of 109 degrees made for hot action in Sunday's match between the China Lake Soccer Club and the Lancaster United Soccer team. The score, 7-1, made it a breeze, however, for the visitors. As this photo was shot, Bill Divel (in foreground), a halfback for Lancaster United, boots the ball away as John Piri, a defender for China Lake, closes in.

A wide range of activities including two out-of-town trips, three sport clinics, innertube water polo competition, a bicycle repair class, two disco dances, and four movie matinees are scheduled for youngsters during August by Recreational Services Department.

Elaine Mikkelsen, community services director, will supervise a trip to California City on Aug. 9 for youths between 8 and 17 years of age. Various games will be played there depending on the number and ages of those attending.

the summer to Whitney Portals will be supervised by Bernadette Namauleg. Fishing licenses are not required, but each participant must supply his or her own fishing gear, and take along a sack lunch.

visit to California City or to Whitney Portals. These outings will be cancelled if 23 youngsters have not signed up by at least two days prior to each trip.

gymnasium parking lot at 7:30 a.m. for

Lancaster United team runs roughshod over CL Soccer Club, posts easy 7-1 win

The Lancaster United Soccer team, possibly the strongest team in the High Desert Soccer League, ran roughshod over Lee. the China Lake Soccer Club during a nonleague game played last Sunday afternoon at Davidove Field.

The weather was hot (the temperature reached a high of 109 degrees) and the visiting soccer players from Lancaster were equally fired up as they posted an easy 7-1 victory.

Four players scored goals thanks to the well-rounded offensive effort displayed by the Lancaster United team, while the China Lakers were held to a single tally by Lynn

What makes the Lancaster United effort even more impressive, Karl Kauffman, player-coach of the China Lake team, said, is that four of the team's top players failed to make the trip here for the game.

A rematch between these two teams has been scheduled in Lancaster during the latter part of August. In the interim, Kauffman hopes the China Lakers will develop a better understanding of the tactics of the game, improve upon the teamwork that is necessary on both offense and defense, and show a gain in the stamina needed to play this fast-moving game.

In addition to Kauffman, local players who took part in Sunday's game against the Lancaster United Soccer Club were goalies Greg Cote and Tom Veatch, defensemen George Mills, John Piri, Ross Heimdahl, Gerry Steiner, Ken Pritchard, and Ar-

Partner's best ball tournament planned by Men's Golf Club

Entries are now being accepted by the China Lake Men's Golf Club for a two-man partner's best ball tournament that will be held on the weekend of Aug. 16-17 at the China Lake Golf Course.

annual event that will be modeled after similar Southern California Golf Association (SCGA) tournaments.

The winning team in the competition on Aug. 16-17 will represent the China Lake - Assessment No. 513 is now due from Country Club in Palm Desert, Calif.

valid SGCA handicap. There is an entry fee the Supply Department, Code 2591. of \$10 per team, and Monday, Aug. 11, is the Assessments are collected by Larry

pense-assisted (entry fee and lodging paid) P.O. Box 1559, Ridgecrest, CA 93555. trip to the SCGA tournament at Palm NWC employees interested in joining Desert in September. There also will be gift GEBA and CLMAS can obtain information certificates for the low gross team, the low by telephoning Mason after working hours gross player and the low net player.

Two days earlier, the third fishing trip of assistant community services director.

There is a \$3 registration fee for either the

A special services van will leave the

mando Diaz, halfbacks Dennis Pierce and Paul Conrad, and forwards Lacey and Steve

The China Lakers were without the services of two of the team's better forwards - Klaus Schadow and Larry

Disposable lighters hazardous if left in heat too long

In the past, some erroneous information has been disseminated concerning the hazards of disposable cigaret lighters.

Some effort now is being made to determine the extent of the hazard that could be presented by such lighters. In the interim, there have been two recent incidents that occurred locally.

In both cases, the problem was with BIC butane lighters, and in each case the lighters were left in the sun. In one instance, a black-colored butane lighter was left on the dashboard of a closed vehicle parked facing east into the sun.

At approximately 11 a.m., while the owner of the vehicle was working in his garage within 20 ft. of the vehicle, he heard what sounded like a muffled explosion. On checking he found that the butane lighter had burst and was in fragments inside the

In another case, a motorcycle rider had obtained a pair of butane lighters and placed them, still in the plastic cardboard container in which they were sold, in a storage bag on his motorcycle.

Some time later, heat-produced pressure built up and caused the plastic lighters to burst into bits and pieces. A workman employed in the vicinity heard what sounded to him like a firecracker going off and investigated.

The moral of the story for those who want to flick their BIC is to keep it cool, out of the This competition is being planned as an sun, and away from any source of heat.

Assessment due from

GEBA, CLMAS members

Golf Club (CLGC) in the SCGA tourney that members of the Government Employees is scheduled Sept. 25-26 at the Del Safari Benefit Association (GEBA) and the China Lake Mutual Aid Society (CLMAS) The local event is open to CLGC members following the death on Thursday, July 24, of who are at least 21 years of age and have a Graham Haswell, 73, who was retired from

deadline to register for the tournament. Mason, GEBA and CLMAS treasurer. The The winning team will receive an ex- amount (\$1.80) can be mailed to Mason at

at 446-4794.

each trip and will return at about 4:30 p.m. how to change and fix a flat tire, how to fix a A basketball clinic for 7th and 8th graders is slated between 9 and 11 a.m. from Aug. 4

through Aug. 8 at the Youth Center gym. A \$5 registration fee is charged for the clinic during which Dan Linsteadt and Mark Hucek will teach dribbling, shooting, passing and defensive techniques, as well as

SOCCER CLINICS PLANNED

The Recreational Services Department also will sponsor two free soccer clinics on Aug. 16 and 23 at Davidove Field for 1st through 6th graders. The clinics will serve as a preview of the Youth Soccer League program, which begins this fall.

Karl Kauffman and John Piri will teach some skills and techniques as well as the general rules of the game.

The clinic for the 1st and 2nd graders will start at 8 a.m. followed by the 3rd and 4th graders at 9:30 a.m. and the 5th and 6th graders at 11 a.m.

INNERTUBE WATER POLO

Another new activity for youths in August is innertube water polo, which will be held at the indoor pool on Aug. 13, 20 and 27 for 3rd through 6th graders and Aug. 14, 21 and 28 for 7th through 12th graders.

The first 30 youngsters who show up will be divided into two 15-member teams to guarantee at least 30 minutes playing time per child.

Fifth and 6th grade youths will take to the pool at 7:45 a.m. followed by the 3rd and 4th graders at 8:45 a.m. On the other days the 7th and 8th graders will lead things off at 7:45 a.m. with the 9th through 12th graders competing at 8:45.

A 50-cent fee is required from all innertube water polo players.

On Aug. 12, Linsteadt will instruct a bicycle repair class from 10 a.m. to 12:30 p.m. at the Community Center for youths between 8 and 14 years of age.

The instruction given at the repair class will focus on general maintenance, such as loose chain, and how to oil and lubricate a

Youngsters are reminded to bring their own bike in good condition for a ride around the Center housing area that will follow this class. All youths must have a permission slip and pay a \$1 registration fee.

On Aug. 8 a disco dance will be held for youngsters between 12 and 17 years of age with a dance for 9 to 11-year-olds scheduled

DANCES SET AT YOUTH CENTER

Both dances will be held at the Youth Center between 6:30 and 8:30 p.m. The cost for each dance will be 75 cents for an individual and \$1.25 per couple.

Recorded music will be played, and ping pong, pool, chess, checkers, monopoly and other games will be available for the 9 to 11

"For the Love of Benji," a comedy-drama starring Patsy Garrett and Benji, will be the first of four G-rated movie matinees slated on Wednesdays at the Center theater.

beginning Aug. 6. The box office will open at 1:30 p.m., and show time will be at 2 for the matinees. The admission price is 85 cents per person.

OTHER MOVIES SCHEDULED

The other matinees scheduled during August are, in order, "The Cat From Outer Space," "The Lord of the Rings" and "The Muppet Movie."

The fee payment deadline for any activity except the dances, the matinees and the innertube water polo, is the day before the event, although participants are urged to register early for all programs. Fees charged for the dances, the matinees and the innertube water polo may be paid at the event itself. Other fees are payable at the Recreation Coordination Office, located next door to the Center gym.

Contact the Recreation Coordination Office at NWC ext. 2010 for further information regarding any program.

Promotional Opportunities

(Continued from Page 2)

Aug. 15, 1980. Supplemental form may be picked up in the Personnel Bldg. No. 34, Rm. 210, from Linda Long. Announcement No. 31-006, Clerk (Typing), GS-303-3/4, PD No. 7931061, Code 31024 — This position is located in the Staff Office, Aircraft Weapons Integration Department. nbent provides clerical support in the area of contract development and administration. Ensures completeness and accuracy of requisition and procurement actions which includes limited responsibility for procurement packages up to \$10,000 and requisitions up to \$1,000; maintains records and files; and prepares routine correspondence. Job Relevant Criteria: Working knowledge of supply and procurement principles including ASPR and Navy procurement directives; knowledge NWC and Department procurement policies and procedures; knowledge of Navy and NWC budget and financial regulations; knowledge of Navy and NWC correspondence procedures.

nent No. 32-002, Sheet and Plate Metal Worker, WG-3801-11, JD No. 463, Code 32533 (2 vacancies - The position is located in the Process Support Branch, Process Systems Division, Ordnance Systems Department. In connection with explosive and propellant research and development work, incumbent will layout, fabricate, tit, weld, and assemble metal devices and structures made of steel, iron, brass, aluminum, stainless steel or high strength alloys. Job Relevant Criteria: Computing and ability to cut materials pertinent to the trade; ability to braze, solder, spot weld and gas weld; ability to use hand and power equipment (braking, forming, fastening, etc.); reading blue prints; and ability to do sheet and plate metal work without more than normal supervision. ncement No. 35005, Electronics Engineer, DP-855-

3, PAC 8035502E, Code 3522 — As head of the Advanced Tactical Radar Section of the Advanced Technology Branch, RF Development Division, Electronic Warfare Department, the incumbent will be responsible for the design, development, test and evaluation of advanced airborne targeting/strike avionics and a real-time syn thetic aperture radar (SAR) simulation facility. Duties will include the development of advanced radar systems using SAR fechniques for application to military aircraft, development of interface equipment for integration between this avionics and appropriate weaponry and development of ground support equipment appropriate for craft/missile peculiar SAR systems. Job Relevant Criteria: Experience in the development of radar systems and digital image and signal processing systems: ability to meet and deal effectively with contractors and program sponsors; ability to communicate effectively orally and in

cement No. 3613, Tools & Parts Attendant, WG 6904-5/6, JD Nos. 673 and 573, Code 36422 - This position is located in the Resources Management Branch, neering Prototype Division, Engineering Department. The incumbent will be responsible for the operation of the division's tool crib, which involves receiving, checking, tifying, storing, issuing, and making minor repairs to tooling and parts. Job Relevant Criteria: Ability to do the theoretical, precise, and/or artistic work of the trade: ability to interpret instructions and specifications; ability to use tools and equipment of the trade; dexterity and safety; ability to do the work of the position without more

oplemental Qualification Statements are required for this position and may be picked up from the Information Desk, Personnel Bldg. No. 34, Rm. 100.

Announcement No. 38-002, (Typing), GS-303-3/4, PD No 7738004N, Code 3802 — This position provides clerical support to the Research Department staff. The incumbent mail throughout the department. Serves as custody control point. Provides general clerical duties such as typing espondence, preparing travel orders, keeps leave records and prepares time cards. Job Relevant Criteria Skill in typing; ability to deal with a variety of personnel ability to follow written and oral instruction

Announcement No. 38-003, Administrative Officer, GS 341-9/11, PD No. 8038038, Code 385 — This position is that of Administrative Officer, Chemistry Division, Research Department. The incumbent provides administrative and nanagement support and services to the division. The incumbent will coordinate with branch heads and principa investigators in the preparation of technical budgets. Will advise the division head on financial difficulties, provide alternative solutions and take corrective action. The in cumbent will provide support within areas of personne space/facilities requirements, procurement of technical/capital equipment and material, and training The incumbent will also research, document, write an edit special management and administrative reports. Job Relevant Criteria: Knowledge of NWC financial system personnel, contracts, supply, facilities, planning, space equipment, security, safety; ability to exercise ent; ability to work with a wide variety of personne on and off-Center; ability to work independently

Announcement No. 49, Child Care Attendant, PS-0189-2 \$3.44 per hour plus benefits, (1 Permanent, full-time, 2 permanent, part-time), Recreational Services Depart ment, Childrens Center, Code 22 — This is not a Civil Service position. Duties are directing and supervising children; help with required clean-up of area and equip ment, aid in preparation of materials and activities. Job Relevant Criteria: Must be a high school graduate or equivalent; familiar with techniques of conso procedures; able to carry up to forty pounds; constan walking and standing.

ouncement No. 50, Child Care Attendant, PS-0189-3, \$3.70 per hour plus benefits, permanent, full-time, Recreational Services Department, Childrens Center, supervise and direct children; help with clean-up; provide care, guidance and developmental experiences, meeting appropriate educational and emotional needs of children protected; provide program to develop children's social skills, intellectual development; plan daily lesson plans provide classroom environment that is cheerful and stimulating. Job Relevant Criteria: Must be a high school graduate or equivalent; and have one year experience in group child care or successful early childhood develop ment, or one year training under qualified superviso working with children of the age group served by the

Children's Center; must be able to lift 40 lb. Apply for all non-Civil Service positions with Bettye Cheatam, Bldg. 21, Recreational Services Department, Ph



NWC Commander R. M. Hillyer Technical Director S. G. Payne Public Affairs Officer Don R. Yockey Editor Mickey Strang Associate Editor **Beverly Becksvoort Editorial Assistant** Ron Allen Staff Photographer



Tuesday, 4:30 p.m. News Stories Tuesday, 11:30 a.m. Photographs The Rocketeer receives American Forces Press Service material. All are official U. S. Navy photos unless otherwise identified. Printed weekly with appropriated funds by a commercial firm in compliance with NAVSO P 35 revised May 1979. Office at Nimitz and Lauritsen, Information published in the Rocketeer does not necessarily reflect the official view of the Department of Defense. Information in The Rocketeer is authorized for public release by the Naval Weapons Center Public Affairs Officer, Code 003.



A Special Achievement Award was such assignments.

ceremony held in the office of the NWC

The recipient of this honor, who is one of

the few NWC military personnel to receive

such recognition, was Neal E. Barry, a

draftsman 2nd class assigned to the

Illustration and Design Branch of the

Technical Information Department's

DM2 Barry was commended for his ex-

ceptional contributions to the Naval

Weapons Center's scientific and technical

community during the period from July 7,

During this time, DM2 Barry was

assigned leadership responsibilities and

had primary cognizance over several

projects that had potentially wide-ranging

impacts. He willingly put in many extra

hours of work and his ability to comprehend

Graphic Arts Division.

1979, through June 30, 1980.

MANY EXTRA HOURS WORKED

Navy enlisted man receives Special Achievement Award

presented to a Navy enlisted man Monday In one instance, it was noted by Bernard

afternoon by Capt. William B. Haff during a F. Connolly, head of TID, who recom-



Open Slow Pitch Division playoffs continue tonight

The six top teams in the Open Slow Pitch Division of the China Lake Intramural Softball League will resume play at 5:30 p.m. today in the slow-pitch playoffs, which began Wednesday at Schoeffel Field.

The double elimination playoffs pit the top three teams from the National and American Slow Pitch Divisions against each other.

Representing the National Division is Mather's Dairy Service, the division champions with a regular season record of 15 wins and 1 loss, second place Burger King, which has a 11-5 mark, and the Knights of Columbus, a team with a record of 8 wins, 7 losses and a tie. Because it placed first in the division, Mather's Dairy Service received a first-round bye.

In the American Division, the SCOE Astros earned a first-round bye in the playoffs by virtue of their division-leading 12-3 record. At press time three other teams were still in contention for the two remaining American Division spots. They are Time Out / High Desert Home Center. with a record of 9-6, High Desert Saloon, which has a mark of 8 wins, 6 losses and a tie, and CSC, which has a record of 7 wins, 7 losses and a tie

Three of the six teams will be eliminated after four games this evening. Action will resume at 5:30 p.m. Monday with the championship game following at 7 p.m. A second game between those two teams will be played at 8:30 if both teams have one

Mather's Dairy Service ranks as the preplayoff favorite based on its offensive power and outstanding regular season record.

Individual trophies will be awarded to members of the winning team, and the top three teams will receive sponsors' trophies.

The top four teams in the playoffs will participate with the first and second place Military Slow Pitch Division teams in another round of playoffs beginning on Tuesday to determine the best slow-pitch team in the China Lake Intramural Softball

Women's aqua aerobics class to begin Aug. 11

Registration is now open for the fifth season of a women's aqua aerobics class, which will run from Monday, Aug. 11, through Thursday, Aug. 21.

The class, taught by Joan Renner, will meet from 8 to 10 a.m. daily Monday through Thursday at the indoor swimming pool in the Center gymnasium.

Class members must register at the Recreation Coordination Office prior to the first class session. There is a registration fee of \$24 per person.

Anyone seeking more information about the class may contact the Recreation Coordination Office by calling NWC ext.

Youth Football League announces signup times

Boys 8 through 14 years of age will have another opportunity to sign up tonight and tomorrow if they are interested in participating in the Indian Wells Valley Youth Football League program this fall.

Registration will be held at the Ridgecrest Bowl tonight from 6 to 9 o'clock and tomorrow from 11 a.m. to 2 p.m.

Youngsters must be accompanied by a parent or guardian, since a parental consent form must be signed at the time of registration for youth football.

NWC Os clinch Military Slow Pitch Div. crown

ROCKETEER

All four remaining division championships in the China Lake Intramural Softball League were decided last week with the only surprise coming in the Military Slow Pitch Division.

The NWC Os clinched the title in the Military Slow Pitch Division last week after defeating the Sports Etc. Tide Riders and the Dispensary team by the scores of 16-12 and 17-11, respectively.

The NWC Os were helped by Long Shot and the Techs 'n Rangers, who both knocked off the Marauders, the first place team for most of the season. The NWC Os now lead the Marauders by 11/2 games with one regular season game to play.

A nine-run sixth inning was the difference in the NWC Os victory over the Tide Riders. Bob Leitzel went 2-for-2 with a home run and a single to lead the victors, followed by Joe Sweeney, who had a triple and two singles, and Tom Mariner and Gerry Pike, who had three hits apiece. Kevin Bauer had three hits for the Tide

Dave Nichols led the way against the Dispensary with two doubles and a single in four at bats. Five other batters for the NWC Os collected two hits each. Desi Torres was the leading hitter for the Dispensary with a home run, a double and a single in four at

Meanwhile, Jim Carr homered and tripled to lead the Long Shot squad over the Marauders 6-2. Joe Schwartz and Rick Jones also had two hits.

The Techs 'n Rangers knocked off the Marauders by a score of 12-2, after a sevenrun fourth inning. Dave Mitchell, Dale Patzkowsky and Gary Fecteau had two hits apiece for the Techs 'n Rangers.

In other Military Slow Pitch action last week, the Techs 'n Rangers dumped the Dispensary 19-10, and Long Shot outscored the Tide Riders 9-4.

Mather's Dairy Service, led by Dale

McLane wins '80 China Lake Men's Golf Club tourney

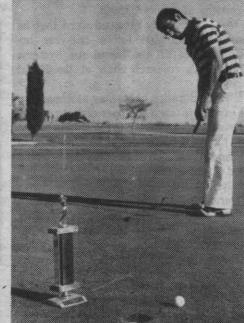
Mike McLane, an engineer-trainee involved in the Alternate Energy Program of the NWC Public Works Department, is the winner of the 1980 championship tournament held recently by the China Lake Men's Golf Club.

McLane led the pack in the championship flight of the tourney — a 72-hole event — by firing 18-hole rounds of 75 and 74 on the final weekend of competition. He finished two strokes ahead of Mark Moore, who placed second in the championship trophy competition. Third place honors went to George

The winners and runners-up in the other three flights of the tournament, listed in the order in which they finished, were:

President's flight - Bob Hooper, Jesus Quezada, and Gary Castor. Vice-president's flight — Elmer Davis, J. D. Ward, and Hal Turner.

Director's flight - Jim Dillon, D. Hopkins, and Ev Yelland.



Mike McLane



A GAME OF INCHES — Burger King first baseman Don Gallaher just barely puts out Andy Price of Mather's Dairy Service as pitcher Dave Stein looks on.

Evins' two home runs, trounced second team 16-10, but the Astros downed the NWC place Burger King 11-1 for the National Slow

Moe Hunsaker homered and singled, and Ritchie Clodt singled twice for Mather's regular season game remaining. Dairy Service, which upped its record to 15 wins and 1 loss

The Knights of Columbus outscored ARCS Hanson added a triple and two doubles, and 9-5, and Bird Olds forfeited to Swap Sheet in Mike Graham contributed a double and a the other National Slow Pitch contests last

In the American Slow Pitch Division, the SCOE Astros were upset by the second place Time Out / High Desert Home Center

China Lake Intramural

Softball League

Military Slow Pitch Div.

National Slow Pitch Div.

American Slow Pitch Div.

Women's Slow Pitch Div.

Sports Etc. Tide Riders

Mather's Dairy Service

Time Out / High Desert

High Desert Saloon.

NWC Navy Varsity ...

Knights of Columbus

Techs 'n Rangers

Burger King

Swap Sheet

Home Center

Pizza Villa

Rowdies

Bamboo Babes

Kelly's Girls

NWC Stingers.

Castillo's Welding

Bird Olds

SCOE .

two hits each. Against the NWC Navy Varsity, Crawford led the way with a triple, a double and two singles in four trips to the plate, followed by Jerry and Joe Lewis, who had three hits each. Barry Hileman gathered three safeties for the NWC team.

single to Time Out's 19-hit total.

Navy Varsity 17-11 later in the week.

Despite the loss, the Astros hold a three-

Mike Breeden went 4-for-5 with three

The Astros were led by Randy Crawford,

Andy Gilpin and Jerry Livingston, who had

doubles and a single to pace Time Out. Mike

game lead over the Time Out team with one

In other American Slow Pitch games played last week, High Desert Saloon edged Pizza Villa 15-14, and CSC shaded the NWC Navy Varsity 18-17.

In the Women's Slow Pitch Division, the Rowdies ripped Castillo's Welding 14-1 to capture the championship in that division. Despite winning two games last week, the

Bamboo Babes are two games out of first place. Their last regular season game was scheduled this week against the Rowdies. The Rowdies led Castillo's Welding 10-0

after two innings and breezed to victory. Pat Brightwell went 3-for-3 at the plate to lead the Rowdies, with Patty Bossert, Debbie Reider, Jan Bledsoe and Jo Maschhoff adding two hits each.

The Bamboo Babes blasted the Independent Fillies and CSC by the scores of 10-3 and 13-3 respectively, Kelly's Girls nipped CSC 5-4 and downed Desert Imports 13-8, and Pizza Villa outslugged the NWC Stingers 23-15 in other Women's Slow Pitch

Ridgecrest Little League all-star squad takes second place in District 51 tourney

. .71/2 71/2

The Ridgecrest Little League all stars batters in his five innings of work. in the championship game and were striking out eight, walking two and allowing eliminated at the District 51 tournament at eight hits. El Dorado Park in Lancaster.

Both teams did their regulation game scoring in the fourth inning. Ridgecrest, which had lost to Park View 8-2 earlier in the week, fell behind 2-0 in Saturday's game after Kevin Appier doubled and later scored 4-2. on two passed balls, and Tommy Perez singled in Craig Leonard.

Ridgecrest tied the game in the bottom of the fourth frame when Ray Haleman doubled in Scott Schroeder, who walked, and Neil Stoner, who was hit by a pitch.

In the seventh inning both teams squandered opportunities to take the lead by leaving runners on third base. Park View scored the winning run in the top of the ninth inning on Chris Bronstein's double off the fence in centerfield, which scored Greg

Pitching was a strong point on both teams. Winning pitcher Appier came in the bottom of the fourth inning to relieve starter Rafael Edwards. Appier struck out 12, Rosamond 6-3 in the opening round of the walked four, allowed four hits and hit two

Park View Little League all stars Saturday Ridgecrest, went the full nine innings,

Haleman and George Evans both doubled and singled to lead the Ridgecrest Little League all stars offensively.

Ridgecrest stayed alive in the tournament last Friday night by eliminating Rosamond

Ridgecrest Little League tallied three times in the bottom of the first inning and added an insurance run in the fifth inning, while Rosamond scored once in the fourth

Sean Hardy picked up the pitching victory for Ridgecrest after striking out nine, walking three and allowing three hits in six. Hardy helped himself at the plate by

going 3-for-3 with a RBI to lead the locals' hitting. Chad Stoner added a double, which scored two runners, and Haleman scored

The Ridgecrest all stars also defeated



SPECIAL EFFORT RECOGNIZED - DM2 Neal A. Barry this week was the recipient of a Special Achievement Award presented by Capt. William B. Haff. Present for the ceremony during which the Navy enlisted man was honored for his work with Technical Information Department's Illustration and Design Branch was Barry's wife Bonnie.

Five employees get Commander's

(Continued from Page 1)

for which the Center received not only the Secretary of the Navy Energy Conservation Award but also the Chief of Naval Material Energy Conservation Incentive Award. He was commended for his personal efforts in helping the Center attain its leadership role in the photovoltaics and the electric and hybrid vehicle programs, and for the Center's successful and multi-faceted energy conservation program.

Fulmer now heads the Gun Systems Branch in the Ordnance Systems Department. He has been a Center employee since 1957, and worked with the Energy Program since its beginning in 1973 when the NWC Energy Independence Master Plan began to be formulated. Fulmer, now serving as an aerospace engineer, has a bachelor's degree in chemical engineering from the University of Southern California.

Smith, who now heads the Energy Program Office in the Public Works Department, was recognized for his work with alternate energy applications such as photovoltaics and the electric and hybrid vehicle programs, and the investigation of other new technology applicable in the Center's comprehensive energy program.

Smith has been working at NWC since 1974 when he received both a bachelor's and a master's degree in mechanical engineering from Brigham Young University in Provo, Utah.

Dr. Stine was the Energy Conservation Officer in the Engineering Division of the Public Works Department prior to the establishment of the Energy Program Office in that department where he continued to head conservation efforts. He was honored for his aggressive and highly

Firemen correct instructions on removing road oil

Contractor personnel engaged in sealing NWC streets are handing out cards with instructions and information about cleaning oil specks from vehicle paint. These instruction have not been approved by NWC Fire Division personnel; they should not be followed.

Use of a soft cloth dipped in gasoline to clean off oil is not recommended because applying any flammable liquid, especially gasoline, could easily result in a catastrophe for the user.

Many commercial products on the market are specifically produced to remove road tars and oils from vehicle paint and chrome. Additionally, most household oils such as Crisco can also serve the same purpose.

successful conservation program. The Center's energy consumption dropped 16 percent during fiscal year 1979 below the aseline period 1975.

Dr. Stine is now a systems engineer in the Sidewinder Program Office. He has both a bachelor's and master's degree in mechanical engineering from the University of Washington in Seattle; a Master of Public Administration degree from California State College Bakersfield; and a Ph.D. degree in engineering from California University at Santa Ana, Calif. He has been employed at NWC since 1972.

Malone, who heads the Electrical Branch in the Engineering Division of the Public Works Department, was honored for his personal efforts in engineering the many practical aspects of implementing various conservation projects and in developing specific energy conservation projects for submission to higher authority for funding.

Malone, who has been a Center employee since 1959, has a bachelor's degree in electrical engineering from the University of Washington in Seattle.

UNIQUE TEST FACILITY — The High Hazard Real Time X-ray Facility, located

in the Skytop area, has the unique capability of being able to provide data on a

variety of phenemona during the test firing of a rocket motor. Such tests provide

information that is helpful in determining the cause of malfunctions or failures. As

this photo was taken, a rocket motor was strapped down in the test bay prior to a

Award . . .

ROCKETEER

functioning as the Center's passport agent during a three-year period earned the Commander's Award for Mrs. Flagg, senior security clerk in the Internal Security Branch of the Safety and Security Depart-

ment of Defense and this nation's allies prevented delays that could have seriously impacted the Center's mission.

Capt. Haff noted that Center technical expertise is vital to the Fleet, the Departabroad, and that Mrs. Flagg's work often

the scientific and technical concepts, and LETTER OF APPRECIATION In addition, a letter of appreciation was provide quality presentation material under received from James R. Bowen, head of the severe time constraints, contributed significantly to the successful conclusion of Project 2000 task team, in which it was stated that the work by DM2 Barry

> 'essential to the success of our program." During the period covered by the Special Achievement Award, DM2 Barry also contributed to the success of program reviews, sponsor updates, management briefings and other scientific and technical documentation efforts. His work had a direct and measurable impact on both the quantity and quality of graphics support available to the scientific and technical community at NWC.

Page Three

mended DM2 Barry for the Special

Achievement Award, the honoree was

responsible for preparing a critical

documentation package for a Phoenix

Program major acquisition phase review.

This work merited a letter of commendation

from the Phoenix Ordnance Components Technical Office which stated that the

success of this review was based, to a large

extent, on the effectiveness of the presen-

tation materials contributed by DM2 Barry.

preparation of the 1980 Laboratory

Program Review publication and visual

presentation that was used by Capt. Haff

and Bob Hillyer, NWC Technical Director,

to provide Admiral A. J. Whittle, Jr., Chief

of Naval Material, and other top Navy and

Department of Defense leaders with an

overview of the Center's technical program

"materially assisted in making successful

presentations," and that the artwork was

accomplishments and capabilities.

He also contributed significantly to the

High Hazard X-ray System

(Continued from Page 1)

Facility also can measure the thrust and strain, temperature, and position of the rocket motor during firing and this, coupled with the data previously collected on a rocket motor, can be useful in determining the cause of failures.

Any deficiencies in the performance of rocket motors are a matter of major concern, since they can result in premature failure after launch causing damage to the aircraft from which the rocket was fired.

The system as it exists today has been in

months, the latest modification was completed. This makes it possible for X-ray equipment to move along a track a few inches away from an ignited rocket motor and, traveling at up to 10 in. per sec. for a distance of more than 100 in., view in real time and record remotely what is happening inside the rocket motor as it is burning. Coverage of an area up to 14 in. square is possible. MANY COMPROMISES POSSIBLE

There are many variables and compromises that can be made in order to insure the desired tests results, Rogerson said, and the method of recording test data combines a special TV system with a video tape recorder. Sophisticated video processors are used to obtain high contrast, high resolution, and low noise pictures.

When modifying this system, the latest improvements for which were designed by Rogerson and fabricated by employees in the machine shop and electrical shop in the Salt Wells area, sturdy but low-cost hardware no longer needed was adapted and made to work, since there was no desire to get into the position of being unable to conduct a potentially hazardous test because of the risk of damage to expensive equipment. These improvements permit the operator to view the rocket motor in real time and make position changes during a

STURDY EQUIPMENT

The High Hazard Real Time X-ray System is used outdoors and requires no heating or cooling. The equipment is designed to withstand (with a minimum amount of damage) strong shocks as well as high temperatures that would occur in the event of a rocket motor failure during a test.

What has evolved over the years is a rocket motor diagnostic tool that, due to its uniqueness, benefits not only NWC but other activities within the Department of Defense

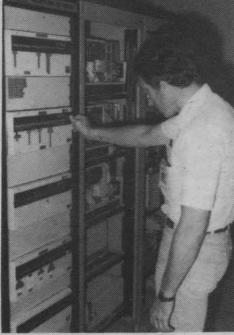
Future plans for its improvement include employing a linear accelerator to generate high energy X-rays, and a re-designed image system to allow data acquisition on larger rocket motors.



installed in 1953. Harley Tillett looks intrigued by what IBM engineer Fred Roberts is pointing out on the control panel.

ROCKETEER

ARTISTIC CAPABILITIES - Computer graphics began at NWC in 1959 with very simple plots but current systems of computer hardware and software permit 3-dimensional plotting, polar plots, drawing of maps, viewgraphs, reconstruction of digital data received from satellites into pictures, and production of slides.



checks the modulator-demodulator used to digitize data in an analogue central site computer. Computer computers and terminals on Center, but also between the Center's central

Computer Sciences Div. directs electronic workhorse serving many needs at NWC

The Computer Sciences Division of the Aircraft Weapons Integration Department has prime responsibility for the Naval Weapons Center's giant UNIVAC 1110 computer, but this electronic workhorse serves customers throughout all Center

Just as domesticated animals pulling plows and handling other chores extended man's productive capacity, so has the computer's performing of chores extended and freed man's mind for more productive

When the Naval Ordnance Test Station was established at China Lake in 1943, a desk calculator enabled scientists and engineers to perform their calculations for research and development work much more rapidly and efficiently than with pencil and paper or a slide rule. The first big highspeed computer available to the NOTS team, the IBM 701, was cheered on its arrival in 1953 as a major breakthrough that would permit enormously expanded operations

UPGRADING NECESSARY

This history of computer operations at China Lake continued when NOTS became the Naval Weapons Center in 1967 and when, seven computers later, the UNIVAC 1108 served as the Center's main electronic

Computer capacity and capability expanded also through peripheral equipment such as extra "memories," remote terminals, and the ability to draw pictures both on paper and cathode ray tubes.

Each added capability also meant that untold hours of drudgery were saved and the Center's work force, although shrinking in numbers, was able to perform more work more accurately than ever before.

OTHERS CAN USE MACHINES

New computer languages such as FORTRAN and COBOL and new computer systems such as System 2000 have permitted non-computer specialists to program their own work rather than having to call on computer programmers for help. Classes are taught regularly by Computer Sciences Division personnel to enable those who need to use the computer to learn how to do their own work. Self-teaching devices such as films are also on hand for those who can't spend extra class time.

By use of remote terminals, managers, planners and analysts are able to get answers to their questions about Center operations quickly in their own offices. Scientists and engineers can perform their own calculations without delay, or can request that the operators on duty around the clock five days a week run large

programs for them. Time sharing permits a number of users to "get on the machine"

The net result is that once more the computer's capacity has been strained to the breaking point, and the Computer Sciences Division is again shopping for a newer, faster, larger model that hopefully will be in service by mid 1981.

NWC Computers

1953			. IBM 701
1955			IBM 704
1959			IBM 709
1961			IBM 7090
1964			IBM 7094
1966			UNIVAC 1005
1967			UNIVAC 1108
1974		1	UNIVAC 1110
1981			2222



LIBRARIAN — Gwen Williamson manages a collection of documentation on UNIVAC software systems, a reference library including more than 100 computeroriented periodicals to which the Center subscribes, and the textbooks used for



TOO SMALL — As Bob Bracken, head of the Computer Services wrote his own programs in assembly language, says Bracken, Branch of the Aircraft Weapons Integration Department's and even physically operated the computer to run his own job. Computer Sciences Division, watches, the UNIVAC 1110 spins on. The trend has come full circle — again, most scientists and This mammoth computer is now proving too small for all the tasks engineers and other "number crunchers" are writing their own required of it despite its round-the-clock operation on working programs (albeit in a number of computer languages such as days. Bracken began his computer work in 1954 on the IBM 701, FORTRAN), and are operating their own remote terminals to get the Center's first big computer, and has worked with each of the the data they need. Remote terminals also permit work after increasingly larger ones aboard since. With the 701 everyone hours or on weekends.

AOC Carrell earns medal for superior performance on job

Chief Aviation Ordnanceman Tom H. Carrell is the recent recipient of a Navy Achievement Medal that was presented to him by Capt. William B. Haff, NWC Commander, on behalf of Admiral T. B. Hayward, Chief of Naval Operations. The presentation to AOC Carrel took

place during a morning quarters ceremony held at Armitage Airfield for military personnel of the NWC Aircraft Department. AOC Carrell was cited for his superior performance of duties as the Weapons Branch chief in the Aircraft Department's Aircraft Support Division during the period

The honoree, a veteran of 19 years of service in the Navy, has been at China Lake for the past 11/2 years. He was transferred here from duty as ordnance chief with Attack Squadron 146 homeported at the Naval Air Station, Lemoore, Calif.

from January 1979 through March 1980.

This is AOC Carrell's second tour of duty at the Naval Weapons Center. Previously he



MEDAL AWARDED - Capt. William B. Haff, NWC Commander, presents the Navy Achievement Medal to AOC Tom H. Carrell

put in a two-year hitch here form 1973 to '75. Achievement Medal, AOC Carrell was Technical Management Office. commended for initiating "many innovative and needed programs which ensured the division's ability to accomplish weapons development support."

Singled out for special mention were the development of a Personnel Qualification Standards program, a program for tool control, and an extensive training and certification program.

"Chief Petty Officer Carrell's close a second source contractor. association with project engineers, his high balance operational flexibility in dealing with new programs contributed significantly to the development of a wide programs," it was noted in the Navy Achievement Medal citation.

Sorry, we goofed

A problem with incorrect photo identification cropped up in the July 25 issue of The ROCKETEER.

It was Cindy Sargeant, a laborer in the Field Support and Utilities Branch of the experience indicates that the development Public Works Department's Maintenance- of a second source results in reduced Utilities Division, who was shown trying on production costs as well as improvement in a pair of safety shoes — not Miller Flour- the quality and reliability of the missile due and in 1960, he attended the North Atlantic

noy.

The ROCKETEER regrets the error.



PONDERING — Ens. Ken Dorrell carefully considers his answer to a question about the solar heating and cooling system at the NRMC branch medical and dental clinic (seen behind the group) during a 2-day tour of NWC energy projects by a group of summer employees from the Pacific Missile Test Center, Point

Pilot's condition still serious after plane crash in High Sierra

the HARM / Standard ARM Technical Management Office in the NWC Electronic Warfare Department, remains in serious but stable condition this week in the intensive care unit of the Ridgecrest Community Hospital as the result of an airplane accident that occurred on July 23.

Rudeen, the pilot of the light plane (a Cessna 182), and two passengers, crashed west of the town of Olancha, in the Templeton Meadows area of the High Sierras. PASSENGERS TRANSFERRED

While Rudeen, the most seriously injured of the trio, remains hospitalized here, the passengers, John Tracy, 34, of Los Angeles, and Bill Armstrong, 48, of Woodland Hills, Calif., who were listed in stable to good condition, have been transferred from the hospital in Ridgecrest.

Rudeen, who is not allowed to have visitors at the hospital, is expected to remain in the intensive care unit for an

Anderson moves to HARM office assoc. technical mgr. slot

Matt Anderson, who returned recently to the Naval Weapons Center following a year's participation in the Sloan Fellowship Program at the Massachusetts Institute of Technology, has been assigned to the post of associate technical manager of the Elec-In the citation that accompanied the Navy tronic Warfare Department's HARM

> HARM, an advanced, high velocity antiradiation missile designed to suppress or destroy enemy surface radar systems, is now in pilot production with Texas Instruments as the prime contractor.

> A U.S. House and Senate Appropriation Sub-committee has appropriated funding that will be available at the start of Fiscal Year 1981 in October for the development of

Anderson, a former division head in the regard for safety, and his ability to expertly Fuze and Sensors Department, will be directing the planning that is being done in preparation for the awarding of a Naval Air Systems Command contract for a variety of modified Fleet ordnance HARM second source prime contractor. Contract award is expected some time around the middle of FY 81.

> Subsequently, Anderson also will be responsible for the coordination, execution and production efforts of the HARM second source contractor.

Past Navy and Department of Defense to the competition between two prime Treaty Organization's Von Karman In-

extended period of time. His injuries include two broken legs, a shattered right knee, several broken ribs, and aches and pains over a good part of his body.

After takeoff from the Invokern airport on the ill-fated flight, which reportedly was undertaken for the purpose of giving the two passengers the opportunity to look over a possible site for filming a movie, Rudeen's plane went down in a forested area at about 8 a.m. on July 23.

Cause of the accident, attributed by Rudeen to a loss of power is under in-

The injured men were able to crawl only a few feet from the completely demolished aircraft to wait for help that came after the damaged plane's emergency locator transmitter signal was picked up by another pilot in Lone Pine.

HELP REQUESTED

A request for help was made to the national rescue coordination center at Scott Air Force Base in Illinois by Gerald Schieffer, head of the Electronic Warfare Department, after Rudeen's wife, Ruth, nformed him that her husband had not returned from the early morning flight into

Two Navy search and rescue helicopters Tucson, Ariz., during July. from Armitage Airfield were used on this mission to ferry the three injured men from the crash site to the Ridgecrest Community

efforts at Center

Visitors briefed on

energy conservation

A group of 13 summer employees from the Pacific Missile Test Center (PMTC) at Point Mugu were here recently for an overview and briefings on Naval Weapons Center energy conservation and alternate energy projects.

They were accompanied to NWC by Jay S. Rosenthal, Coordinator for the Energy Office at PMTC, and Dallas Dellamy, staff photographer for the PMTC Missile, who recorded their visit on film

Thad Perry, Technical Director of PMTC, suggested that such a visit would be in order for the college juniors and seniors who are employed in energy-related activities this summer at PMTC, because this would permit them to see a broader spectrum of the Navy's involvement in the energy field.

Energy activities at PMTC are mainly in the test and evaluation areas; NWC, as a research and development activity, is involved in alternate energy work as well as conservation efforts.

Programs about which they were briefed included the Geothermal Project (including a tour of the Coso Geothermal area), the Navy Photovoltaic Program, the Navy Electric Vehicle Program, and various Center conservation programs. The visitors also toured the solar heating and cooling system at the NMRC branch medical and dental clinic, and were shown through the low energy structure built at Salt Wells.

Student participants, all of whom are engineers in training, were Paula S. Andrews, Valerie D. Davidson, Rachel L. Lather, Michael Rocha, A. Ellen Tarwater, Edward R. Vinieratos, John Winslow, Tod P. Neilan, John J. Ahern, Peter H. Fischer, Karen J. Penfold, Joan A. Bay, and Larry

Star gazers to see film slides about visit to Kitt Peak

Don Kusterer, past president of the China Lake Astronomical Society, will be the featured speaker at the group's August meeting, which will be held on Monday at 7:30 p.m. at the Society's hut, 401-A McIntire St., China Lake.

Kusterer will show film slides of the recent visit by eight society members to Kitt Peak and the multiple mirror telescope at Mt. Hopkins, while at the Western Amateur Astronomers' convention in

If time permits, a second feature, showing some recent successes and failures in astrophotography, will be shown by Ric

Maddox gets appointment to research chair at Annapolis

Arthur Maddox, an aerospace engineer on in Belgium near the city of Brussells the staff of the Advanced Technology Division in the NWC Ordnance Systems Department, will leave here during the early part of August for the U.S. Naval Academy at Annapolis, Md.

Maddox recently received word that he has been selected for a one-year appointment to fill the Naval Air Systems Command's research chair at the Naval

For the duration of his stay at Annapolis, he expects to teach an upper division course in basic aircraft design to midshipmen, and will have the remainder of his time free to engage in research work of his choice in the field of modern techniques of aerodynamics

During the 12 years that he has been a Naval Weapons Center employee, Maddox has been involved in technology development pertaining to the release or separation of rockets, missiles or bombs from aircraft.

Maddox has a Ph.D with majors in both mechanical and aeronautical engineering, stitute of Fluid Dynamics, which is located

Maddox reports that one of the recent holders of NAVAIR's research chair at the U.S. Naval Academy was Sir Frank Whittle, who is generally regarded as the inventor of the jet aircraft engine.

