



FASHIONS ON PARADE — During a recent Navy Exchange style show at the Community Center, NEX patrons were able to see some of the fashions that will be available at the Retail Store for spring and summer wear. Being modeled in the above photographs (clockwise 1. to r. from lower left) are a summer skirt and blouse combination by Sharon Banister, a sun dress by Annie Isler, danceskins with matching skirt for the disco look by Sandy Blackburn and Sue Poppen, and a two-piece tennis outfit by Gail Bymoen. — Photos by Ron Allen

High Desert Escapade to feature art show at Community Center, May 5-6

The Desert Art League will host its first community art show at the Community Center on the weekend of May 5 and 6.

The League has received almost 600 student entries ranging from kindergarten through high school; 67 adult amateur entries; and 30 professional artist entries.

Entry to the show was by applications which were due on April 1. Entries will be judged by an out-of-town professional artist teacher, and ribbon awards to be presented include first, second, third, fourth and honorable mention.

The Desert Art League has drafted roles for the event which were attached to entry blanks. Each entrant is allowed to enter two works and all work must be original, not copied from other paintings or photographs. Work must have been done within the period from April 1, 1978, to the present.

There are a variety of adult amateur and professional classifications, including sculpture, print making, drawing including pen and ink, charcoal, pencil and crayon, as well as the usual oils, watercolors, and acrylics.

Judging will be based on creativity including original style, expression, and subject concept for a majority of the points. Other factors in judging are composition, including balance and color harmony, and skill in handling media.

J. L. Halpin, president of the Desert Art League, is the show chairman. He is assisted by Lorraine McClung, co-chairman; David Wirtz in charge of setting up the show; Merle Rivette in charge of miniature paintings; Terry Mendiola and Martina Camphausen, snack bar; Sue Floyd, Searles Valley entries; Ruth Amster, student entries; and John S. Ward, adult entries.

Scenic films taken in Colorado to be shown

A color film slide presentation entitled "Riding the Narrow Gauge Railroad in Colorado" will be presented at the next meeting of the China Lake Photographic Society.

The meeting, which is open to all interested persons, will be held on Thursday, May 3, starting at 7:30 p.m. in the Friendship Room of the First Federal Savings and Loan Association in Ridgecrest.

Sylvia Winslow, well-known for her desert art work, will present color film slides of some of Colorado's most spectacular wilderness area scenery.

In addition to the competitive aspects of the show, members of the Desert Art League contribute miniature paintings that are offered for sale during the show.

The public is invited to visit the Community Center during the show hours of 2 to 8 p.m. on Saturday, May 5, and from 11 a.m. to 5 p.m. on Sunday, May 6. There is no charge for admission. Demonstrations of print making, painting and other art media will be presented during the show hours.

A snack bar will be operated at which visitors to the art show can purchase cookies, punch and coffee before continuing on to another feature of the High Desert Escapade activities at China Lake or in Ridgecrest.



Commissioned Officers' Mess

There's a full evening of dining and dancing scheduled at the Commissioned Officers' Mess tonight.

A seafood dinner will be served from 6 to 10 o'clock, followed by dancing to recorded disco music until 12:30 a.m.

Saturday is "King of Roasts Nite" at the COM. Featured will be prime rib of beef served from 6 to 10 p.m.

Tuesday, May 1, there will be a steak cook-out on the patio. Members will cook their own steaks. Included in the price of \$4.95 per person will be a salad bar and buffet.

Get ready for another gala "Membership Night" next Friday, May 4. The menu for this festive evening will be grand marnier Cornish game hen, served from 6:30 to 9 o'clock.

On stage for the dancing and listening pleasure of COM patrons will be Harry Hellings and his band playing everything from rock music to the top 40.

This versatile band is from the Los Angeles area, and has appeared in such places as Reno and Lake Tahoe, and overseas in the Philippines and Japan. The musicians will be performing from 9 to 1 a.m.

The cost for this evening of dining and entertainment will be \$3 for COM members and their spouses, and \$4 for guests.

Wildflower exhibit will be special attraction at Standard Flower Show

A comprehensive wildflower exhibit sponsored by the Maturango Museum will be arranged against the background of the second annual Standard Flower Show to be held on Saturday and Sunday, May 5 and 6, at the Naval Weapons Center's Enlisted Mess.

The flower show is part of the Hi Desert Escapade and is co-sponsored by the Desert Planters of Ridgecrest, Oasis Garden Club of Indian Wells Valley and the Maturango Museum.

Tina Knemeyer, chairman of the wildflower exhibit, along with committee members, Drs. Kristin and Robert Berry, Eleanor Eng, Mary Ann Henry, Judith Lind, Carol Panlaqui, and Janet Westbrook, are collecting and identifying native wildflower specimens.

As a result of the wet winter and spring, a good wildflower display for the Hi Desert Escapade is anticipated by Mrs. Knemeyer. Last year the desert wildflower and natural history exhibit was reported to be the most popular section of the flower show. There were 231 wildflower specimens in that show with even more expected this year.

Single specimens, all identified by genus, species and common name, will be displayed. In addition, there will be a continuous showing of colored film slides of wildflowers. The wildflower exhibit is educational and will be an exceptional opportunity for students.

C. Douglas Lind will display his extensive cactus collection.

There will also be a display of animal droppings that will be identified. This exhibit of "scat," as it is called, ties in with the wildflower display because in the ecology system the plants are eaten by the animals, and the seeds are scattered in the animal droppings, becoming next season's flowers.

In addition to native plants, horticulture and artistic designs will be on display at the "Bloomin' Adventure," house plants will be on sale, as well as stationery and placemats.

Cinco de Mayo fete to be held at KofC Hall in Ridgecrest

The Naval Weapons Center's Hispanic Employment Program will join Los Amigos Hispanos of Ridgecrest in celebrating Cinco de Mayo in the local area on Saturday, May 5.

Cinco de Mayo activities will feature a dance and botana at the Knights of Columbus Hall at 701 W. Ridgecrest Blvd. in Ridgecrest.

The botana (appetizer), consisting of spiced meat, tortillas, beans and punch, will be served from 7 to 8:30 p.m. It will be followed by a dance featuring the Latin sounds of "Los Feliz," a group from Bakersfield, from 9 p.m. to 1 a.m.

The general public is invited to this event. Tickets priced at \$7 each, are available from Los Amigos Hispanos members or from Joe Lopez in the NWC Equal Employment Opportunity Office, phone NWC Ext. 3248 or 2738.

Cinco de Mayo commemorates the 1862 victory of a highly motivated Mexican army led by Ignacio Zaragoza over a much better equipped and trained French army at Guadalupe Hill near Puebla, Mexico. This victory became a symbol of inspiration to the Mexican people in their battle to regain their independence from foreign rule.

Metal Trades Council meeting planned May 3

The Indian Wells Valley Metal Trades Council will hold its next regular meeting on Thursday, May 3, at 65-B Halsey Ave., China Lake. The meeting will get underway at 7:30 p.m.

The Council is the representative of a unit composed of the Center's non-supervisory-ungraded civilian employees who are located at China Lake.

with a "green thumb" motif.

The Desert Tortoise Preserve group will have tortoise T-shirts and wind chimes on sale to raise funds for its land-acquisition program, while the Maturango Museum will be selling several different books about wildflowers.

Participation by the general public in the flower show is invited, however, in the case of horticulture exhibits, plants must have been grown and cared for at least 90 days in order to be accepted for the show.

The deadline for entering artistic designs and container-grown plants is Monday, April 30. The horticulture deadline is Thursday, May 3.

All entries must be correctly named and legibly labeled. Botanical names are preferred although common names are acceptable. Entries must be pre-registered with Nelda Darling by calling 375-2135.

Detailed information on rules and regulations may be found in leaflets that are available at the Community Center, Kern County Library, Indian Wells Valley Water District office, Ridgecrest Chamber of Commerce office, or at Means Nursery in Ridgecrest.

MOVIES

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

Regular starting time — 7:30 p.m.
For synopsis information call
Code-O Phone 939-2411

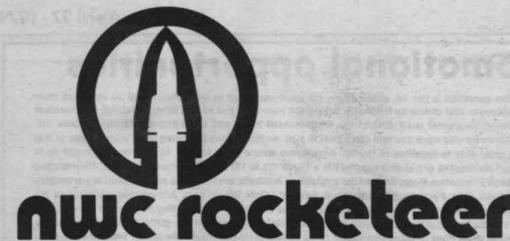
FRIDAY	"JUNGLE BOOK" Animated Voices of Phil Harris and Sebastian Cabot (89 min., rated G)	APRIL 27
SATURDAY	"BAKER'S HAWK" Starring Clint Walker and Burl Ives (97 min., rated G) 1:30 Matinee — regular adm.	APRIL 28
MONDAY	"THE BEES" Starring John Saxon and John Carradine (105 min., rated PG)	APRIL 30
WEDNESDAY	"PARADISE ALLEY" Starring Sylvester Stallone and Ann Archer (117 min., rated PG)	MAY 2
FRIDAY	"NUNZIO" Starring James Andronico and David Proval (89 min., rated R)	MAY 4
SATURDAY	"LAND OF NO RETURN" Starring Mel Torme and William Shatner (91 min., rated G)	MAY 5
SATURDAY	"THE GREAT BRAIN" Starring Jimmy Osmond and Pat Delaney (89 min., rated G) 1:30 Matinee — Regular adm.	MAY 5
	"GOIN' SOUTH" Starring Jack Nicholson (116 min., rated PG)	

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PLACE
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To: _____



Naval Weapons Center
China Lake
California

April 27, 1979

Vol. XXXIV, No. 17

Merit Award Winner



SPECIAL RECOGNITION — Bob Hillyer, NWC Technical Director, presents the Technical Director Award to Patrick N. Keller (at left), an electronics engineer in the Range Department. Keller was singled out for this honor in recognition of his work with charged coupled devices and utilization of this technology to improve and expand upon the use of television as a range instrumentation tool.

Jumpers from El Centro take part in first test of parachute equipment on NWC range

The first Parachute Systems Department test of parachute equipment to be conducted on G Range at the Naval Weapons Center was carried out successfully last week.

LCdr. Hal Pheny, a Medical Service Corps officer who is head of Code 64's Biomedical Branch, came here from the National Parachute Test Range (NPTR) at El Centro, Calif., to oversee the preparations for and actual running of the test.

An interested observer was Howard Fish, head of the Parachute System Department, who currently is dividing his time between here and El Centro prior to completion of the move of personnel and equipment from El Centro to China Lake, which is scheduled to be completed by the end of June.

Test Objectives

The object of the test was threefold, namely to obtain baseline physiological stress data (heart and respiration rates, for instance) of two Navy parachutists as their canopies popped open; to insure that the NPTR biomedical telemetry packs worn by the jumpers are compatible with ground telemetry stations at NWC's G range; and to give NWC's Range Operations Division personnel an opportunity to take both high speed motion pictures and fast-action film still photos of the parachutist's descent and landing for later analysis of the jumps.

LCdr. Pheny, the project coordinator, was pleased with the test and well satisfied with the support provided by the Center's Range Department. More coverage than had been requested was made available to make sure that in the future the G-range camera and telemetry equipment will be compatible with the Parachute Systems Department's test requirements.

Range Department Support

According to Glen D. Hollar, head of the Range Operation Division in the NWC Range Department, approximately 40 employees of Code 62 were involved in the parachute jump test. "We wanted to demonstrate our range instrumentation capabilities for future parachute testing," Hollar noted.

The assistance and coverage from the Range Department included 10 tracking cameras, three radars and their maintenance crews, video cameras used to

obtain and transmit video tape of the test, telemetry equipment operators, and a drop zone crew whose members assisted the parachutists after they landed. In addition, aircraft controllers were involved, as were employees who provide timing and communications support, as well as frequency monitoring.

Prior to take-off from Armitage Airfield in a C-117D aircraft, electrodes connected to the telemetry packs which they carried were attached to the upper torso, neck and head of two of the parachutists — PRC Robert Hudson and PR3 Michael Kolb. This equipment was checked to make sure that it

was working correctly before the aircraft left the ground.

PRC Hudson and PR3 Kolb wore a 28-ft. flat canopy parachute — the Navy's standard parachute utilized in nearly all tactical aircraft that are equipped with emergency ejection seats. They leaped from the aircraft at an altitude of 7,200 ft. while the plane was flying at a speed of approximately 100 knots.

The other three test parachutists — Lt. Robert Moynihan, PRCs Ron Allen and PRAN Clifford Mathews — exited from the aircraft at 10,000 ft. and dropped for about

(Continued on Page 3)



TEST PREPARATIONS — Howard Fish (at right), head of the Parachute Systems Department, not only was here for his department's first test of parachute equipment conducted at NWC, but provided a helping hand in some of the pre-jump preparations. He is holding several telemetry signal electrodes like those being attached by Lt. Robert Moynihan to the chest of PRC Robert Hudson, one of the test parachutists. —Photo by Ron Allen

INSIDE...

Change to Daylight Saving Time 2
New Affirmative Action Plan 3
Weapons Planning Group 4
Summer Employment Information 5
Sports 6
Maturango Junction Fete Planned 7
Art, Flower Shows Slated 8

TD Award presented

Keller's work with CCDs expands use of TV as range instrumentation tool

Patrick N. Keller, an electronics engineer in the Range Department's Range Electronic Development Branch (Code 6231), received the Technical Director's Award in recognition of outstanding technical accomplishment during the Commander's meeting held Monday morning in the Management Center of Michelson Laboratory.

The award was presented by Bob Hillyer, NWC Technical Director, who congratulated Keller for his work with charged coupled devices (CCDs) and his efforts to utilize this technology to improve and expand the use of television as a range instrumentation tool.

In the letter of commendation which accompanied the Technical Director

Award, it was noted that "he demonstrated technique for electronically controlling, or shuttering, the individual components of the charge coupled elements of a sensor array opens the door to a host of technology applications for the Naval Weapons Center and the Navy range community."

In addition to the letter of commendation, Keller also received an engraved paper-weight and a \$200 stipend which accompanies this special form of a Superior Achievement Award.

Technology Improved

"The use of a CCD array as a television sensor with attendant improvements in image linearity and exposure control permits a broad application of television to regions of optical instrumentation that were heretofore limited to camera/film technology," it was further stated in the letter of commendation which Keller received.

The work of building this CCD technology base will provide the transition mechanism whereby quick look data, automatic data processing and image enhancement capabilities may be realized from range optical instrumentation systems, Hillyer also added in the commendation which accompanied the Technical Director Award.

Keller's efforts, which were supported by the Center's Independent Exploratory Development (IED) program during Fiscal Year 78, have led to the successful electronic switching control of the CCD, or electronically shuttering a TV sensor.

This technique improves the effective exposure control of the recorded image to 50 microseconds, it was pointed out in the

(Continued on Page 3)

Traditional band concert, picnic set Armed Forces Day

The traditional band concert and picnic on the lawn of the Administration Building will be among the highlights of the Armed Forces Day celebration at the Naval Weapons Center on Saturday, May 12.

A magic show has been added this year as a treat to the young people in the audience, regardless of their age.

The afternoon of festivities will begin when the Sea Cadets post the colors at 12:30. This will be followed by an exhibition drill by both the NWC Sidewinder Drill Team and the Sea Cadets.

Sonora Del Mar, a Navy Band from San Diego, will begin the concert by playing musical selections for all tastes. This band has been invited back for a return engagement because of its outstanding performance at the 1978 Armed Forces Day celebration.

Other musical groups scheduled to appear at the concert include bands from James Monroe and Murray Junior High Schools and from Burroughs High School. A Cavalcade of Magic will be presented by magician Len Finney and his wife and daughter.

Finney states that the Cavalcade of Magic will include something for everyone — magic, illusions, and extrasensory perception

(Continued on Page 3)

Clocks must be set ahead one hour Sunday for Daylight Saving Time

The annual changeover to Daylight Saving Time will take place at 2 a.m. Sunday.

The simplest way to keep abreast of the correct time is to remember to set all clocks ahead one hour before retiring for the evening on Saturday.

The hour that is lost this weekend will be regained next October in California when the return to Pacific Standard Time is due to take place.

The concept of Daylight Saving Time is not new. Benjamin Franklin was in favor of rearranging the daylight hours to conserve candles and provide more time for outdoor work.

By setting clocks ahead and following the same hourly routine, more of a person's waking hours are hours of daylight. This gives an extra hour of light to motorists during the evening rush hour traffic and an extra hour of play for children who aren't allowed to stay out after dark.

The practice of setting clocks ahead in the summer was first adopted in the United States during World War I as a measure to conserve fuel by eliminating the need for artificial light in the early evening.

During World War II, clocks were kept ahead continuously from February 1942, to Sept. 30, 1945. During this time in England, time pieces were advanced two hours during the summer (they called it "double summer time") and one hour for the rest of the year.

For years after World War II, people across the country continued to observe Daylight Saving Time just because they wanted to. They liked the extra hour of light in the afternoon. But not everybody did it, and those who did were not consistent.

In 1966, Congress finally came to terms

with the problems caused by the inconsistencies in the observance of daylight saving time. The passage of the Uniform Time Act required that all states observing Daylight Saving Time would switch over at the same time.

In areas where Daylight Saving Time is observed, clocks are now set ahead on the



last Sunday in April and back to standard time on the last Sunday in October.

Exceptions are the states of Arizona, Hawaii, and most of Indiana, and the territories of American Samoa, Puerto Rico and the Virgin Islands.

At all these places, Daylight Saving Time is not observed.

Navy divers coming to China Lake to look for 'go anywhere' — do anything' sailors

A Navy "frogman" recruiting team will be looking for some "go anywhere — do anything" sailors at the Naval Weapons Center on Friday, May 4.

Members of an Underwater Demolition Team/Sea Air Land, Explosive Ordnance Disposal, Navy Diving Recruiting Team will screen candidates for the Navy's diving program at the Training Center at 9 a.m. After showing films and slides to prospective candidates, they will then proceed to the indoor swimming pool for endurance tests, part of which will be held at the pool and the rest at Kelly Field.

The tests consist of swimming 300 yds. in less than 7 min., completing 30 pushups, 30 situps and six overhead pullups in 2 min., and then running a mile in at least 7 1/2 min.

A recruiting team spokesman said, "Many men desire the life of the Navy 'frogman' but only a few meet all of the qualifications."

In February 1979, five China Lake Navy men tried for a place on the team but were unable to qualify. Several who tried then are expected to try again in May.

Interested NWC military personnel with "the heart for adventure" should bring to the presentation, a swim suit, boondockers, a set of long pants, and a T-shirt for the screening test.

Training course slated for explosives drivers

An explosives driver training course that will provide training on the regulations, procedures, and forms pertaining to transporting explosives will be held on Tuesday, May 8, from 8 a.m. to 4 p.m.

The course will be held in Conference Rm. A of the Safety Building, which is located at the corner of Nimitz Ave. and Hussey Rd.

Attendance is mandatory for all currently licensed military and civilian drivers who have not previously completed this class, and for all prospective explosives drivers intending to be licensed for the first time.

Those planning to attend must submit an NWC training request and authorization form via proper department channels in time for it to reach Code 244 no later than next Friday, May 4.

Promotional opportunities

Unless otherwise specified in the ad, applications for positions listed in this column will be accepted from current NWC employees and should be filed with the person named in the ad. All others desiring employment with the Naval Weapons Center may contact the Employment-Wage and Classification Division, Code 972, Ext. 2069. Ads will run on one day only, on the Friday following their appearance in this column, unless a later date is specified in the ad. Employees whose work history has not been brought up to date within the last six months are encouraged to file a Form 171 or 172 in their personnel jacket. Information concerning the Merit Promotion Program and the evaluation methods used in these promotional opportunities may be obtained from your Personnel Management Advisor (Code 976 or 973). Advertising positions in the Promotional Opportunities column does not preclude the use of alternate recruiting sources in filling these positions. As part of the rating process, a supervisory appraisal will be sent to the current supervisor and the most recent previous supervisor of those applicants rated as basically qualified. The Naval Weapons Center is an equal opportunity employer and selection shall be made without discrimination for any nonmerit reason. The minimum qualification requirements for all GS positions are defined in CSC Handbook X-118, while those for all WO, WL, and WS positions are defined in CSC Handbook X-118C.

Motor Vehicle Operator, WG-5703-8, JD No. 538N, Code 26782—This is a temporary not-to-exceed one year position in the Operations Branch, Transportation Division of the Public Works Department. The purpose of this advertisement is to establish a regular to fill temporary (not-to-exceed one year) motor vehicle operator vacancies. Maximum time in an appointment of this type will be 12 months in any 24 month period. NWC will accept applications from reinstatement eligibles, individuals currently on Civil Service Register, and individuals not on registers who have skills necessary to qualify in this position. The incumbent drives vehicles on a specific trip basis or on a regularly established route to transport material and equipment. Hooks and unloads trailer from tractor "fifth wheel"; loads and unloads materials or directs this task. Checks material loaded or delivered against task orders. Keeps trip records or logs. Inspects air hoses and connections in braking systems; checks lighting lines; makes operational inspections of vehicle and reports any defects in vehicle operations, accidents, damages or traffic violations. Performs minor and operating maintenance on equipment being used. Performs additional duties as required in relation to assigned function. **Job Relevant Criteria:** Ability to drive safely; operation of motor vehicles; maintenance of motor vehicles; work practices; reliability and dependability as a motor vehicle operator; ability to operate motor vehicles without more than normal supervision.

File applications for the above with Kathi Clark, Bldg. 34, Rm. 106, Ph. 2049.

Police Officer, GS-083-3/4/5, PD No. 884018N, 7184019N, Code 2413—This position is that of Police Officer and is located in the Police Division, of the Safety and Security Department. The incumbent will train in all aspects of law enforcement. This training will be both of formal and informal nature. He will perform his assigned area with a Senior Police Officer, conduct preliminary investigations, apprehend offenders, regulate traffic, maintain physical security of sensitive areas and prepare reports. **Job Relevant Criteria:** Knowledge of law enforcement methods and principles; ability to work under stress situations, experience conducting investigations; knowledge of the geographical layout of NWC; ability to communicate effectively orally; ability to communicate effectively in writing; ability to exercise good judgment.

Technical Publications Writer/Editor (PS&E), GS-1083-12, PD No. 7823071E, or Visual Information Specialist, GS-1084-12, PD No. 7823072E, Code 22011 and Code 22012—Two positions which are the heads of Satellite Service Center No. 1 and No. 2, physically located at the China Lake Propulsion Laboratory complex and Salt Wells and Mitchell Laboratories. The positions are administratively located in the Technical Information Department. The incumbent plans, implement and direct the technical information on-site services for users located at the sites served. Services include: technical, scientific and managerial publications support, overhead transparencies, presentations, film and television services, and technical art and visual aids. The incumbent will also draft and edit materials submitted for publication or plan and preparation of visual information. **Job Relevant Criteria:** Ability to acquire knowledge of the technology and major programs of the organizations located in the region served; skills in written and/or visual technical communications; knowledge of printing, photography, and presentation requirements; ability to deal effectively with a wide variety of NWC personnel, including management of officials; ability to advise clients on format, style, and regulations pertaining to technical publications and/or presentations. Previous applicants will be considered and therefore need not reapply.

File applications for the above with Charlotte Sieckel, Bldg. 34, Rm. 106, Ph. 2118.

Operations Research Analyst, GS-1515-14, PD No. 7412002, Code 12—This position leads and directs major studies requiring a large study team effort. The studies range from those required for immediate R&D program decisions to identifying long range Fleet needs. The incumbent also serves as Navy representative on DoD wide study teams initiated at headquarters level. **Job Relevant Criteria:** Experience representing a broad exposure to the programs and techniques of weapons systems analysis; ability to redefine complex problems into workable sub-problems; knowledge of operations research analysis techniques and their application to actual problems; experience in systems effectiveness/utility trade-off analysis; broad background in tactical warfare analysis.

Electronics Engineer or Physicist, GS-855 or 1312-12/13, PD No. 7939037, Code 3941—Two vacancies, GS-13 subject to position classification. This position is located in the Sensors and Platforms Branch, Electro-Optics Division, Weapons Department. Incumbents will design and develop imaging infrared detector and tracking systems for tactical air-to-surface missiles. They will develop design and procurement specifications for complex seeker system components and assist in planning programs in imaging infrared technology development. They will conduct and direct mathematical and computer aided analytical studies of spatial infrared target signature characteristics and background characteristics. They will analyze and evaluate the performance of advanced state-of-the-art detectors, signal processing techniques, and imaging infrared systems and subsystems. **Job Relevant Criteria:** An advanced degree in physics or electronics engineering or the equivalent in training and experience; experience in developing/evaluating imaging infrared technology; experience in directing contractual efforts in imaging infrared or related technology.

General Engineer, Engineer, Physicist, Mathematician, or Operations Research Analyst, GS-801, 800, 1310, 1512, or 1515 series, GS-13/14/15, Code 03—Applicants are solicited to fill a one year (June 1979 to May 1980) assignment in OP-506F, Air Launched Weapons Section of the Aircraft and Weapons Requirements Branch. This is a long term training assignment that is planned to become part of the Naval Scientists Training and Exchange Program (NSTEP). The objective of the training is to provide a

working knowledge of OPNAV/ASN/OSD procedures; familiarity with mission need assessment and requirements generation; understanding of the fiscal and logistical constraints on weapon development and procurement; and hands on participation in the POM development cycle/PPBS process. GS-14/15 preferred but senior GS-13 will be considered. **Job Relevant Criteria:** Experience in development of air launched weapons; experience in R&D project management; familiarity with PPBS system and systems acquisition process; knowledge of aircraft avionics and CV operations. Contact Dillard Bullard, Ext. 3002, for additional information.

Secretary (DMT), GS-318-4/5, PD No. 7639023N, Code 2985—This position is located in the Air-to-Air Systems Office, Associate for Anti-Air Systems, Weapons Department. The incumbent provides a variety of duties for the supervisor such as maintaining and setting up appointments, meetings, and files; receiving and screening visitors and phone calls; receiving, opening, and screening all mail; reviewing all outgoing correspondence for proper format and typographical errors; and arranging for travel. In addition, incumbent types a variety of correspondence, reports, viewgraphs, and memoranda from handwritten drafts. **Job Relevant Criteria:** Ability to type efficiently and accurately; thorough working knowledge of grammar, spelling, and punctuation; working knowledge of the proper format for all types of Navy correspondence and ability to work independently and exercise personal judgment and diplomacy; ability to operate dictating machine transcriber.

File applications for the above with Kitty Berry, Bldg. 34, Rm. 206, Ph. 2723.

Mathematician/Computer Specialist, GS-1520/324-12, PD No. 7862112, Code 42201—This position is located in the Range Operation Support Office of the Range Department. The incumbent will provide computer programming and computer system analysis for development of real-time data collection, processing and display sub-systems for advanced time, space, position information systems. **Job Relevant Criteria:** Knowledge of digital computer operational theory; knowledge of compiler level computer programming language; knowledge of assembler level language; ability to employ real-time data processing.

Engineering Aide, GS-802-3, PD No. 7962014N, Code 42214—The position is located in the Range Engineer Section, Air Operation Branch, Range Operations Division, Range Department.

(Continued on Page 5)

DIVINE SERVICES

PROTESTANT

Sunday Worship Service 1000
Sunday School—All Ages 0845
Sunday School Classes are held in Chapel Annexes 1, 2, 4, (Dorms 5, 6, 8) located opposite the former Center Restaurant.
Communion Service first Sunday of the Month.

ECUMENICAL

Wednesday Noon Bible Study 1130
Thursday Men's Prayer Breakfast 0630

ROMAN CATHOLIC

MASS
Saturday 1700 fulfills Sunday obligation 0830-1130
Sunday 0815-1245
Nursery, Chapel Annex 1
Daily except Saturday, 1135, Blessed Sacrament Chapel

CONFESSIONS

Daily 1115 to 1130
Saturday 1615 to 1645
Sunday 0800 to 0825

RELIGIOUS EDUCATION CLASSES

Sunday Pre-school thru 11th grade 1000
Above classes are held in the Chapel Annexes across from the former Center Restaurant.
Sunday afternoon 12th grade 1630
As announced "In Home" Discussion Groups and Youth Rallies
Contact Chaplain's Office for specifics.

JEWISH SERVICES

EASTWING—ALL FAITH CHAPEL
Sabbath Services every Friday 1930
UNITARIANS
CHAPEL ANNEX 95
Sunday Services—(Sept. May) 1930

The Rocketeer

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Naval Weapons Center
China Lake, California
Rear Admiral William L. Harris
NWC Commander
R. M. Hillier
Technical Director
Dr. Robert H. Pearson

Head
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Don R. Yockey
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Associate Editor

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Editorial Assistant

Ron Allen
Staff Photographer

DEADLINES
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Wednesday, 11:30 a.m.

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Phones 3354, 3355, 2347

Results reported of Over-Hill Track Club's 4-mile run

Forty-nine local runners participated in the Over-the-Hill Track Club's four-mile Fun Run on Saturday, April 21, which began and ended at the Kern Regional Park in Ridgecrest.

A club spokesman said considering the dirt roads and many turns, the times were very fast. The first three runners completed the course in less than 24 min. and 11 others crossed the finish line in under 26 min.

The leaders, Tom McMahon (23:11) Tom Rindt (23:33) and Mel Foremaster (23:44), all in the 30-to-39-year-old age group, stayed close together for the first half of the race and then McMahon gradually pulled ahead.

Many Runners Missed Race
Many of the regular runners were missing from the women's group. Jerry Mumford led the way with a top time of 27:47, followed by Julie Smith (30:24). This was Ms. Smith's first competition this year. Both are in the 30 plus age group. Third place for women was taken by Lee Ann Keck in the 20-29 age group. She was clocked at 30:32.

Other age group winners for the women were, in the 19 years of age and under age group, Erika Teppo (age 8) 39:56; in the 20-to-29-year-old age group, Tamara Grasing-Pinney, 35:20, and Ginger Hamaty, 37:41; and 30 years of age and over, Dianne Lucas, 32:07.

For the boys 14 and under, Dan Rugg turned in a 25:32, Jeff Swinford, who is only 9 years old, a 28:58, and Bill Ledden III, a 29:01. The first two finishers in the 20-to-29 age group were Paul Storey, 26:35, and Harold Blomquist, 28:18.

The three top finishers in the 40-to-49 age group were Alex Shlanta, 25:40, Peter Yu, 26:08, and Ray Jacobson, 26:18. In the 50 years of age and over classification, Scott Broyles placed first with a 24:51, Bill Norris second with a 29:48, and Paul Mikonis third with a 30:44.

Competes in Boston Marathon

OTHTC member Dave Rugg, a data management specialist in Code 3651, competed in the Boston Marathon on Tuesday, April 16. He finished the race in 3 hr., 11 min., 8 sec., while the winner out of a field of almost 8,000 runners crossed the finish line in 2:09:27.

Rugg said running the 26.2 mile race was a once-in-a-lifetime experience. "But, it was real weird with rock bands playing, and the large crowd cheering the runners on while offering them beer and other refreshments as we ran by."

The OTHTC will sponsor its fifth annual 10-mile Inyokern run on Sunday, May 6, along the old Inyokern Road beginning at 9 a.m. for the novice class and at 9:30 for the racer class.

Trophies and medals will be awarded to both men and women who turn in the fastest times, and all those who complete the 10-mile run will receive T-shirts. A picnic at Inyokern Park, with fruit and cold drinks for all runners, will follow this event.

Softball tourney . . .

(Continued from Page 6)
the losers' bracket, the Homesteaders won their next three games by scores of 7-1 over Hawthorne, Nev., 4-3 over Chameleon Engineering of Lancaster, and 5-3 over the local Fuller Masonry squad before surprising the Las Vegas Jets, 3-2, on Sunday morning.

The Homesteaders, who posted an overall tourney record of 4 wins and 2 losses, were the last local team to be eliminated from the tourney. They couldn't handle the Sabre Refining squad from Bakersfield, however, and without reserve pitching to call on, were routed 10-0 in game No. 28 of the 30-game tournament.

After their initial 4-3 tournament victory over The Homestead, the Ridgecrest Raiders were edged 2-1 by the Misfits, blasted the California City Pharmacy team, 16-2; and slipped past the March Air Force Base squad, 2-1, before losing, 2-1, to Sabre Refining.

Maturango Junction, old mining camp, to be revived first weekend in May

A highlight of next weekend's Hi-Desert Escapade will be the roistering mining camp of Maturango Junction — a two-day town that will be erected in the parking lot of the Maturango Museum in order to raise money for the museum.

Hours during which activities will be underway at Maturango Junction are 11 a.m. to 5 p.m. on Saturday, May 5, and 1 to 5 p.m. on Sunday, May 6. Under the chairmanship of Jean Harris, a team of museum members has been hard at work putting the activities, fancy geegaws, and victuals together for visitors' enjoyment.

Planned is a wide variety of entertainment that will be available free of charge. Entertainment will be provided by Harry Stevens and his Polynesian Dancers, the Hi-Desert Gymnastics Team, Ken Robinson's Dixieland Band, the Desert Suns Drill Team, Orville Milhollin and Anne and Duane Walden with bluegrass music, Ron Madden and his guitar, the Medallions (a barbershop harmony song group), Dewey Houcevar and his guitar, and students of the City of Ridgecrest Ballet Society.

Among other activities will be four different game booths, arranged by Paul Amundson and the All Faith Chapel's Junior and Senior High School Youth Fellowship. Food chairmen Jay and Mary Kay Bornfleth are planning a wide array of food, including hotdogs, popcorn, and soft drinks.

At Grace Stocking's Sweet Shop, homemade cakes, pies, and other goodies will be available while Suzanne Koerschner's Tattoo Parlor will provide unique and colorful body adornments for a mere pittance.

The A&G General Store is being organized by Isabel Gaines and Elaine Adams, who are still looking for interesting craft items and white elephants to sell.

Community-spirited local merchants have made donations to the General Store, but Mrs. Gaines and Mrs. Adams encourage more participation, both from businesses and from private individuals. Anyone with items to donate is urged to call Mrs. Adams at 446-5046 or Mrs. Gaines at 446-7043.

Again this year, the colorful "street people" of Maturango Junction will lend authenticity to this temporary community. Colorful con-men David St. Amand and Clay Babcock will offer their miracle cure,

Mojave Snakeoil, for sale, along with outrageous promises.

Chaplains John Madden and Rod Wallace will make honest men of a variety of supposedly respectable citizens, and Sheriff Denny Kline will gather up a posse to keep law and order. It is also rumored that the Burroughs Drama Club will turn a few desperadoes loose on an unsuspecting populace, and that Banker Dick Hart had better watch his till.

All this fun and frivolity is being organized to provide the community with an entertaining weekend and to raise funds toward operation of the Maturango Museum. Booths for the occasion are being especially constructed by Carroll Evans and his hardworking team of Ben Adams, Floyd Richards, and John Zeno.



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Promotional Opportunities . . .

(Continued from Page 5)
as liaison and consultant. **Job Relevant Criteria:** Knowledge of control theory as applied to pneumatic and hydraulic actuation systems; ability to design mechanical, hydraulic, pneumatic, and electromechanical servo systems; ability to work effectively with personnel at all levels; ability to integrate electronics sensors and circuits with mechanical (pressure relief valves and pyrotechnic switches) into workable designs; ability to perform mathematical analysis using analog and digital computers.

File applications for the above with Pat Gaunt, Bldg. 34, Rm. 212, Ph. 2514.

Procurement Clerk (Typing), GS-1104-3/4/5, PD No. 7725017N/7825099N, Code 2235—This position is located in the Contract Negotiation Branch, Contracts Division, Supply Department. Applications will be accepted from status eligibles. Incumbent will process contract documents including accuracy and correct clause content and typing in final format. Will also perform other clerical duties such as compiling data and preparing various reports. **Job Relevant Criteria:** Knowledge of procurement methods; ability to interpret instructions; ability to meet and deal effectively with others; ability to meet deadlines under pressure.

Secretary (Typing), GS-318-4, PD No. 7633063N, Code 3336—Applications will be accepted from status eligibles. This position is the secretary to the Phoenix Ordnance Components Technical Manager, Fuze Systems Division, Fuze and Sensors Department. Duties include receiving and screening correspondence, making travel arrangements, establishing and maintaining files, frequent personal and telephone contacts and office management. **Job Relevant Criteria:** Ability to plan and organize work and establish priorities; ability to deal with people; ability to gather, assemble and verify information; knowledge of proper English usage, spelling, grammar and punctuation.

File applications for the above with Susie Cross, Bldg. 34, Rm. 210, Ph. 2371.

Motor Vehicle Operator, WG-5703-4, JD No. 498, Code 26782—This position is in the Operations Branch, Transportation Division of the Public Works Department. The incumbent drives sedans, pickups, and carryalls to transport individuals and/or small items. Occasionally operates gasoline or diesel-powered vehicles with gross weight up to 22,000 pounds, including dump, cargo, or stake

truck or van; may operate passenger bus with a capacity of no more than 20 passengers. Responsible for making minor repairs and for cleaning vehicles. **Job Relevant Criteria:** Ability to drive safely; operation of motor vehicles; maintenance of motor vehicles; work practices; reliability and dependability as a motor vehicle operator; ability to operate motor vehicles without more than normal supervision.

Maintenance General Foreman, WS-4701-14, JD No. 7826045E, Code 2445—This position is in the Head of the Field Support and Utilities Branch located in the Maintenance Utilities Division, Public Works Department. This branch contains the Laborer/Masonry Shop, Range Section, and Utilities Section. Incumbent assumes general responsibility for reviewing planned jobs, resolves in-ter-shop scheduling problems, assures that jobs are completed within department standards for quality, makes adjustments to shop ceilings to accommodate changing work situations. Keeps shop foreman advised on latest techniques in trades and crafts in his branch, develops training materials, establishes employee development plans, and administers safety program for the branch. **Job Relevant Criteria:** Ability to supervise through subordinate supervisors; ability to plan and organize work; knowledge of different relevant lines of work; ability to work with others; ability to meet deadline dates under pressure; ingenuity (ability to suggest and apply new ideas). File SF-172 and Supplemental Wage Grade Supervisory Information sheet with Code 997 no later than May 11, 1979. Forms may be obtained from Lucy Lambert in Rm. 212, Personnel Bldg.

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

Fiscal Accounting Clerk, GS-501-3/4, PD No. 7808082, Code 0845—This is a trainee position located in the Disbursing Branch, Financial Operations Division, Office of Finance and Management. The incumbent will assist in the maintenance of ledgers and preparation of numerous financial reports; preparation of all checks paid by the disbursing office; and preparation of vouchers required for each civilian payroll. **Job Relevant Criteria:** Ability to comprehend and apply regulatory information; ability to maintain records accurately and neatly; skill in using office equipment such as keypunch and calculator; and ability to deal effectively with people. Promotion potential to GS-5. Status eligibles accepted.

File applications for the above with Terry George, Bldg. 34, Rm. 208, Ph. 3118.



Recreation Roundup

Plans to organize intramural golf league announced

Golfers interested in playing on teams that will compete in an intramural league this summer are urged to make this interest known by contacting Paul Someson, golf pro at the China Lake course, by calling NWC Ext. 2900.

Someson hopes that a league consisting of at least a dozen teams composed of six members each can be organized, and has asked that prospective team captains call him right away.

The deadline for receiving information on team rosters is Friday, May 11. Plans call for starting league play on Tuesday, June 5.

Men's, women's and mixed teams are currently being formed to participate in Summer Bowling Leagues at Hall Memorial Lanes.

Bowlers interested in competing can obtain additional information by calling Dean Ray, bowling alley manager, at NWC Ext. 3471.

There are openings for active duty military personnel only in leagues that bowl on Sunday and Wednesday evenings and are charged special military rates.

16 slow pitch teams to vie in tourney here this weekend

The second annual "early bird" slow pitch softball tournament, sponsored by the NWC Special Services Division, will begin tonight at 6 o'clock with games scheduled on both Schoeffel Field and the Pony League baseball diamond.

Sixteen teams are entered in this event, including seven from the China Lake Intramural Softball League, and five visiting military entries.

According to Paul Baczkiewicz, athletic director who is serving as tournament director, the local teams that will be competing are the Knights, Marauders, Homestead, Time Out, James Gang, Hooters and the Sun Devils.

Coming here from Long Beach will be a team representing the Long Beach Naval Station and two ships homeported there — the USS Hull and the USS Dixie. Other military teams entered are players from Edwards Air Force Base and from the Naval Auxiliary Air Station, Fallon, Nev.

In addition, the roster of tourney entries includes the Montgomery Pass Aces from Bishop, the Action Choppers from San Bernardino, Mickey's Rentals from Riverside, and Andre's Deli from Los Angeles.

Six games are on tap this evening. The playing field, the time and the opposing teams are as follows:

Schoeffel Field — 6 p.m., Knights vs. Fallon, Nev.; 7:15 p.m., Homestead vs. USS Hull; and 8:30 p.m., The Hooters vs. Mickey's Rentals.

Pony League Field — 6 p.m., Marauders vs. Long Beach Naval Station; 7:15 p.m., Time Out vs. James Gang; and 8:30 p.m., Sun Devils vs. Action Choppers.

Competition will resume at 8 a.m. Saturday, and a total of 19 games are scheduled tomorrow. The tournament will conclude with a championship game that will start at around 12:15 p.m. Sunday. The first game Sunday is slated at 8:30 a.m.

Ed Smith Welding team wins fast pitch softball tourney

Three teams entered from Bakersfield garnered the top three spots in the second annual Don Chieze fast pitch softball tournament held here last Friday, Saturday and Sunday.

A total of 30 games were played by the 14 teams entered in this event and, after the dust had settled, the defending champion Ed Smith Welding squad had swept to its second tourney title in a row by winning all five of its games.

Second and third place honors were claimed by Sabre Refining and the Misfits, who had 5-1 and 3-2 records, respectively, while it was local team, The Homestead (a China Lake Intramural League slow pitch

team bolstered by a group of five players from Santa Ana) which placed fourth.

Another local team, the Ridgecrest Raiders, and the Las Vegas Jets ended in a tie for fifth place.

A highlight of the tournament was an error-free, 17-inning pitcher's duel between Paul Magan of Ed Smith Welding and Ted Brown of the Las Vegas Jets.

For his performance in this and other games played by the Las Vegas team, Brown was chosen to receive the tournament's "most valuable pitcher" award even though Magan won the game.

After 16½ innings of play (7 innings is regulation in tournament softball), the

score was tied at 1-1 when the Welders from Bakersfield came to bat in the bottom half of the 17th. Brown struck out the first batter to face him, but a double by Tim Mazza and a walk issued to Steve Agerton had the Jets in trouble.

Mazza was picked off second base for out No. 2 in the last half of the 17th inning to relieve a bit of the pressure, but Brown, who was tiring, hit John NesSmith with a pitch and walked Ed Williams to load the bases. This set the stage for a bases loaded home run by John Mears, centerfielder for Ed Smith Welding, which gave the ultimate tourney champs a hard-fought 6-2 win over their opponents from Las Vegas.

Tourney Champs' Record

Enroute to the tourney title, the Ed Smith Welding team routed Nelson Auto of Ridgecrest, 15-1; eased past another local team, Fuller Masonry, 7-1; shutout the Misfits, 7-0, and then edged the Sabre Refining squad, 5-4, in the tournament title tilt.

The latter team (also from Bakersfield) was knocked into the losers' bracket by a 2-1 loss to the Misfits, but bounced back to post a pair of shutouts by scores of 2-0 over the Ridgecrest Raiders and 4-0 over the Misfits to earn the right to vie for the tournament crown.

In this final tourney game, it looked like a shoo-in for the Ed Smith Welding team, which had a 5-1 lead after six innings of play. At that point, however, the Sabre Refining squad put together a 3-run rally that nearly turned the tide in its favor.

Home Run Ignites Rally

After one out, Bob Crissman, who was the designated hitter for the Sabre Refining in the final tourney clash, came through with a home run. Then Bob Maier, the left fielder, hit a single and advanced to second on a wild pitch.

The next man up for Sabre Refining struck out and, with two away, Fred Grubbs singled to move Maier to third. Allen Jennings, the Sabre Refining right fielder, picked up two RBIs on a double that drove in Maier and Grubbs, but a ground ball which was an easy out from pitcher to first base ended the game with the Ed Smith Welding team on top, 5-4.

The Homestead, a local team which surprised tourney officials and fans alike by doing much better than expected, got off to a rocky start by losing the tourney opener to the Ridgecrest Raiders, 4-3. Dropped into

(Continued on Page 7)

Upset wins posted by two teams in Youth Soccer League

Two upsets — one in the American and the other in the Pacific Division — cropped up last Saturday during Youth Center Soccer League action at Davidove Field.

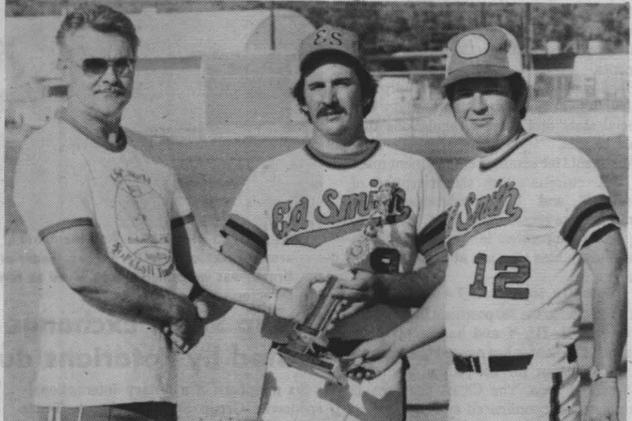
In the very first match of the day, the Sting upset the Strikers 1-0 on a goal scored by Craig Rindt, with an assist from Andy Corzine. Even though the Strikers dominated much of the first half of the game, the defenders for the Sting — led by Chaney Yu and Griff Davies — successfully warded off their opponents in this American Division (3rd and 4th graders) contest.

Another surprise was the Rowdies 2-1 win over the Earthquakes in a Pacific Division (1st and 2nd graders) match. Goals were tallied for the Rowdies by Mike Rindt and Barrie Riddoch, with assists from Travis Webster and Mike Downs. Late in the match, the Earthquakes avoided a shutout when Matt Ziegler scored a goal after taking a pass from Jeremy Osburn. On defense, kudos went to Ricky Ratzler of the Rowdies and to Robbie Ferguson and Jonathan White of the Earthquakes.

During two other American Division matches, the Lancers speared the Timbers, 4-1, and a well-played game between the Rogues and Hurricanes ended in a 2-2 tie.

The Timbers, who have improved on offense in each game, got their lone goal

(Continued on Page 7)



WINNERS CONGRATULATED — Don Chieze, mayor of Ridgecrest, extends congratulations to John NesSmith (center), third baseman, and Ron Chambers, manager of the Ed Smith Welding fast pitch softball team from Bakersfield. NesSmith was singled out as the tournament's "most valuable" player, while the Ed Smith Welding team on which he plays won the tourney championship for the second year in a row. — Photo by Ron Allen

Burros varsity nine defeats Saugus 12-4, loses 2-1 to Canyon High in league play

The boys' varsity baseball team at Burroughs High School missed an opportunity to move up in the standings in the Golden League this past week.

After soundly trouncing the Saugus High squad, 12-4, in a game played last Friday at Saugus, the Burros couldn't get the hits when they needed them and were edged 2-1 Tuesday afternoon on their home field by the visitors from Canyon High.

This turn of events left the Burros with a record of 5 wins and 5 losses in league play, and two more games coming up before the season ends. This afternoon, the BHS varsity nine will travel to Quartz Hill and then play Hart High School here next Friday, May 4.

The past week's varsity baseball action by the Burros resulted in two games that were almost the complete opposite of one another. At Saugus, it was the Centurions who left runners stranded on base (12 in all) as they went down to defeat under a 13-hit barrage by the Burros.

11 Base Runners Stranded

On their home field Tuesday afternoon, the BHS varsity was able to get runners on base in every inning except the seventh, but stranded 11 while scoring just 1 run.

The Canyon Cowboys picked up 3 of their 5 hits during the game in the first inning. Jim Bolander, the lead-off batter, and Kevin Smith both hit safely. Bolander then scored on a single by Phil Smith.

The Burros tied the score at 1-1 in the bottom of the second. Kevin Kumpfman pitcher for Burroughs, drew a walk, advanced to second on a hit by Bill Bradberry, and moved on to third when the play was made at first base to put out Mike Wirtz, who had tapped a slow roller into the dirt. Kumpfman then tallied on a wild pitch.

One of two Burros errors in the game against Canyon turned out to be costly, as it enabled the Cowboys to score once more in the fifth inning and, eventually, win the game by the slim margin of 2-1.

With two outs in the top of the fifth, Paul Lederer drew a base on balls and a wind-

blown ball hit toward centerfield by Bolander that was muffed allowed Lederer to score on the miscue.

Kumpfman, the BHS pitcher, was touched for just 5 hits, struck out 6 and walked 3 — a better performance than Ken Wagner, the winning hurler for Canyon, who gave up 6 hits, struck out 4 and walked 4.

Leading hitters for Burros in the Canyon High game were Bradberry and Jim Peck, who were 2 for 3 and 2 for 4, respectively.

Six-Run Rampage

Last Friday at Saugus, an inside the park home run by Dave Cane with two men on base sparked a 6-run rampage by the Burros in the second inning.

This paved the way for a lopsided 12-4 victory as the local team added single runs in the third, fourth and fifth innings to build up a 9-0 lead before the Saugus team got on the scoreboard with 4 runs in the fifth inning.

That was it, however, for the Centurions, but the Burros were able to score 3 more times for insurance in the sixth inning as they salted away an easy victory.

In contrast to Tuesday's game against Canyon, the Burros had Saugus in trouble early in the game, and just kept on hitting the ball. Peck was the pace setter with four hits (all singles) in four trips to the batter's box, and five players for Burroughs collected two hits apiece.

The long ball hitters were Cane, with a home run and a single in four times at bat, and Frank Mayer, who had a double and a triple in three trips to the plate.

Kumpfman, the winning pitcher, was two for two at the plate (both singles), while Bradberry and Terry Gaunt each had two hits in four times at bat, and Wirtz was one for three.

Saugus scored three of its four runs on a bases loaded triple by Perry Bloomer, who then tallied run No. 4 for the Centurions on a sacrifice fly to right field. A walk sandwiched in between two singles set the stage for Bloomer's 3-base blow.

SecNav approves new Affirmative Action Plan for civilian workers

A new Equal Employment Opportunity (EEO) Affirmative Action Plan for civilian personnel of the Department of the Navy was approved on March 27 by W. Graham Claytor, Jr., Secretary of the Navy.

Its first phase, which covers the period through September 1979, is designed to significantly increase the participation of military and civilian managers in improving the EEO environment of the Navy Department.

"Our plan," SecNav Claytor wrote, "is further evidence of my determination to create an institutional climate where EEO will flourish — a determination clearly signaled in October 1978 when the responsibility for managing the civilian workforce was placed within the Navy and the Marine Corps chains-of-command."

Affirmative action, it was pointed out, is intended to serve a larger purpose than simply ensuring that all applicants and employees are measured only by their qualifications and job performance, without regard to race, color, religion, sex, age, national origin or physical handicap.

"We know that non-discrimination, by itself, won't alter the lingering effects of past discrimination. A comprehensive and vigorous Affirmative Action Program is needed to overcome the systemic problems which stand in the way of achieving a proper representation of minorities and women at all grade levels, in all occupations, in all organizations, and at all activities," the message from the Secretary of the Navy continued.

"Although past efforts have improved our workforce profile, I'm convinced that we can do much more, faster, with greater involvement by military and civilian managers in assessing problems, recommending effective corrective actions, and providing the resources and skills needed for efficient implementation.

"The managerial talent of the Navy and Marine Corps is second to none. This reservoir must be fully tapped if we are to establish a position of leadership in the area of Equal Opportunity and Affirmative Action. I'm totally committed to achieving this position and know I can expect your complete support in getting us there," the message from SecNav Claytor concluded.

Technical Director Award presented...

(Continued from Page 1)

memorandum from John DiPol, head of the NWC Range Department, who nominated Keller for the Technical Director Award.

The effects of this expanded control of the exposure range increase the applications of television into the regions of optical instrumentation where previous instrumentation required the use of camera/film technology. Keller's work has provided the technical base whereby the Range Department can make the transition from a camera/film instrumentation operation to a television instrumentation operation and benefit from the advantages of having quick-look data available.

"Keller's work with CCDs in this application have made him a recognized technical leader in this technology in both governmental and private industry circles," DiPol also wrote. The electronic shuttering process which he developed utilizes a unique and unprecedented design, and makes it feasible to reduce or eliminate image motion distortion problems associated with conventional mechanical shuttered and non-shuttered television cameras.

Keller, who is a graduate of the University of Arizona at Tucson with a master's degree in electrical engineering, joined the workforce at the Naval Weapons Center under the Junior Professional Recruitment Program in 1974.

Early in the JP Program, he distinguished himself while involved in a work assignment in the Research Department, and was recognized by his supervisor for having designed an induction charging system to clear warm fog. This work was a

contribution to Project Foggy Cloud.

After completing his JP tour, Keller was assigned to the Range Electronic Development Branch in Code 62. He has worked on a variety of technical projects since that time, and has made notable contributions to projects such as a solid state radar receiver design for the On-Axis Data System and a mechanically shuttered TV control system for which he and his associates at work received a patent disclosure.

Annual fete... (Continued from Page 1)

(E.S.P.). The audience will be invited to participate in the show and, at one point, Finney will create the illusion of sawing a person in half.

Finney says he puts the person he saws in half back together, but this could be one way of increasing the size of his audience — cut them in half and double the number. He also levitates his daughter on swords and uses doves in his magic show.

The 1979 Armed Forces Day celebration will begin with static and dynamic exhibits at Armitage Airfield in the morning, and exhibits of NWC programs and activities in the Community Center throughout the day.

A car show of special-purpose vehicles, and an Armed Forces Day lunch at the Enlisted Dining Facility round out the day's activities.

(Continued from Page 1)

30 sec. before pulling the ripcords on their para-commander parachutes — a type of parachute which is more easily controlled in the air.

All parachute jumpers landed within 100 ft. of each other and very close to the control point, Marion Mitchell, the photographic liaison man for Code 64, reported.

Tests of this sort, it was noted by one of the tracking camera operators, differ from the type of work customarily done over the NWC ranges since the object being tracked slows down instead of accelerates at the critical point of coverage in the test.

Most of the parachutists who took part in last week's test are scheduled to be permanently assigned to China Lake upon completion of the Parachute Systems Department's move here from El Centro.



POLICE DIVISION CONTRACT SIGNED — Rear Admiral William L. Harris, NWC Commander, signs a new three year contract with Local 1781 of the American Federation of Government Employees. Present for the contract signing were Police Officer Dave Heaston (seated at right), president of Local 1781 and chief negotiator for the union, and (seated at left) Don Cortichiatto, a labor relations specialist in the Personnel Department, who served as chief negotiator for the NWC Negotiations Committee. Looking on in the background are (l.-r.) Police Chief Ron Nelson, Steve Kaupp, Associate Director for Security, and Warren C. Sherard, the Code 24 head of staff — all members of the Center Negotiations Committee; Police Officer Ken McCormick, Bruce McIntosh, and Police Officer Rod Walker. McIntosh, another member of the Center Negotiations Committee, is head of the NWC Personnel Department's Labor Relations Division, while Officers McCormick and Walker served on the Union Negotiations Committee. Another member of this latter group, James Adams, head of the Patrol Branch, was unable to be present for the photo. This contract is one of the first agreements negotiated in the Navy since the implementation of the Civil Service Reform Act. Working conditions and personnel policies (such as promotion procedures, grievance procedures, disciplinary actions, and annual leave matters) are covered in the contract. — Photo by Randy Eady

Information sought for community calendar

The Public Affairs Office is now serving as a clearing house for information on major community special events.

A major special event is a meeting, conference, party, celebration, banquet, entertainment, or athletic activity of community-wide interest.

The purpose of this service is to avoid schedule conflicts and to assure that events held on Center are not prohibited by Navy directives.

Command desires to cooperate fully with unofficial community groups in making

Center facilities available within the provisions of NWC Instruction 1106.3B and SecNav Instruction 5720.44.

The Community Liaison Office, Code 003B, is responsible for coordinating and scheduling all major community events, with a minimum expected attendance of 100 or involving community or other dignitaries with high public visibility such as county, state, and nationally elected officials.

Additional information can be obtained by calling Natalie Harrison at NWC Ext. 3481 or 3482.



ELECTRODES CONNECTED TO TELEMETRY PACK — Equipment carried by PRC Robert Hudson, a test parachutist, included a telemetry pack to which wires leading from electrodes on his head, neck and upper torso were attached. Shown connecting the wires from the jumper to the telemetry pack are Lt. Moynihan and Charles Adler, a telemetry technician employed by the Parachute Systems Department. — Photo by Ron Allen



Parachute test...

(Continued from Page 1)

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JUMPER ON TARGET — After a drop from an altitude of 10,000 ft., PRCs Ron Allen was within easy camera range as he (like his fellow parachutists) landed within 100 ft. of each other and very close to the test control point.

Weapons Planning Group looks into future warfare problems

(Editor's Note: This is the second in a two-part article on the Weapons Planning Group (Code 12) at the Naval Weapons Center. The first segment appeared in last week's issue of the ROCKETEER.

In the Advanced Systems Concepts Program, Code 124, the use of interactive graphics for analysis and war gaming is being evaluated. Last year, equipment and software needs for a prototype capability were defined. The equipment is now on-center, and Terry Haven, Jim Baird, and Paul Severson are working to get it operating.

The interactive graphics system consists of a main station and two substations for war game operations to provide an umpire and red and blue command centers. Each station has a graphics display controlled by computers that provide a graphic presentation of the tactical situation, a hard-copy printer, and a plotter to provide hard-copy data of the display system.

It is expected that the capability provided by this prototype system will be valuable in a number of ways. In recent years, map studies have been used extensively in evaluating tactics and weapon performance characteristics.

Big Time Saver

The interactive graphics war gaming capability is intended to preserve all the advantages of doing map studies but also drastically reduce the time required to set up a problem and the time to compute the results of an engagement. In addition, it will simplify the evaluation of tactical engagements where it is important to reflect that the opposing sides have "less-than-perfect" information.

John Lamb says the current goal is to have a full capability to provide war game support to NWC programs by the end of Fiscal Year 79.

The Sea Control Studies Program includes projects concerned both with future technology needs of the Navy and with tactics that make best use of the array of weapon systems the Navy has today.

Main Concern

"Although planning for hardware for the year 2000 is our main concern," according to Gino La Marca, "we cannot lose sight of today's problems — otherwise they will be there tomorrow."

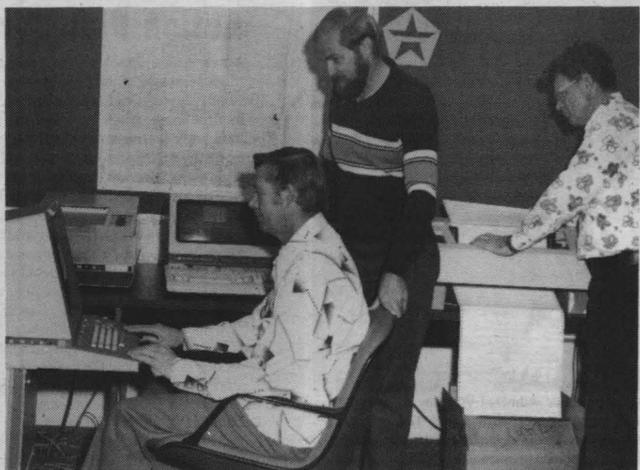
The future Navy was the concern in the recently completed work for CNO's Sea-Based Air Master Study Plan that compared conventional aircraft with vertical/short takeoff and landing aircraft (V/STOL). This was done in two parts. In the first, John Webb and Steve Bollenbaugh, led by Mike Stephens, did engagement-level analyses comparing operational concepts for the systems. The second part, led by Frank Buffum, had Tom Seufert, Miriam Cartwright, and Ross Savary doing campaign and force-level analyses to determine best mixes and quantities for use in the year 2000.

Aircraft Carrier Requirements

Another study with a focus on the future, this time led by Tom Seufert, concerns requirements for aircraft carriers. Bill Dean and Jack Breedlove are assisting in this Naval Sea Systems Command project that is part of a multi-lab effort. Code 12's part is to determine air wing levels needed by Navy missions in the late 1990s.

Since 1972, the Weapons Planning Group has been assisting the Chief of Naval Operations in determining what kind and how many weapons the Navy needs to have on hand for different time periods. Currently led by Dianne Lucas, NAVMOR (Navy Marine Ordnance Requirements) has also shown its usefulness as a tool for guiding R&D. Currently, Miriam Cartwright and Jill Parks are using the NAVMOR program as a tool for examining the military value of free-fall ordnance. This question comes up in this era of standoff weapons and ultra-sophisticated enemy defenses.

The Soviet Ship Vulnerability Program, another multi-lab effort, is managed by the



WAR GAME SIMULATION — Technicians in Code 12's new interactive graphics war game simulation facility are in the process of "debugging" the software for the war game simulation facility. Responsible for this effort are (l. to r.) Paul T. Severson, Terry B. Haven, and James W. Baird. Photo by Randy Eady

The Weapons Planning Group for the Chief of Naval Material. Budd Ruff, who currently heads the program office, sees to providing estimates of operational weapons effectiveness against enemy ship targets and assessing improvements needed in future weapons.

Major Effort Underway

A major effort, now underway for both CNO and the Weapons Block at NWC, is assessing the current and future Navy capability in several warfare areas. The first of these, shipboard anti-air warfare, is in its final stages under Doug Kinney. Jim Weimholt is doing one on antiship warfare. Miriam Cartwright and Al Hugo are about to start the last two on strike warfare and land-based AAW, respectively. The plan is to update these annually — they could become the most important of Code 12 products.

Code 127 has done considerable work in Fleet support dealing exclusively with today's Navy. Tactical Development and Evaluation (TAC D&E) projects included helping the staff of the Commander Light Attack Wing Pacific write tactical memos on War-at-Sea (Frank Buffum), the use of Laser Guided Bombs in Close Support (Jim Weimholt), and Alpha Strikes (Dianne Lucas). Lt. Rosemary Conatser, when not in her A-7 aircraft cockpit, has also been heavily involved in this work.

Fleet Support Work Valuable

Bill White made a name for himself at Third Fleet as part of the staff in planning, observing, and evaluating exercises. These Fleet support efforts not only help solve immediate Fleet problems but form the basis for much of Code 12's work in preparing for the future.

Earl Towson, the Research and Development Planning Director, Code 128, keeps the NWC Commander, Technical Director, Laboratory Director, and Head of Code 12 informed of significant efforts, policy changes, and headquarters requests and deliberations relative to research and development.

Dr. George Handler of Code 128 has taken over NWC's responsibility for long-range corporate planning and provides an integrated management direction for all efforts that deal with long-range R&D planning and requirements. Essential elements of this five-year plan include determining what kind of a place NWC is going to be five years from now. This plan is then integrated into a similar plan prepared by the Director of Navy Laboratories for all Navy labs.

Code 128 also maintains the close Washington contacts and liaison needed to give NWC timely access to planning requirements; it also supports Washington offices in their development of the Navy's long-range R&D plans.

These reports contain information on strategic concepts and explain new aims or changes in warfare emphasis and contingencies that affect the planning of both strategic and general purpose forces; management guidance information on new and changed directions in management, fiscal, personnel, and military construction; and R&D guidance, both general and specific with emphasis on requirements for new or improved weapons systems.

Another important project carried out by Code 128 is the Scenarios Evaluative Program which is a continuing effort to insure that NWC has an operational understanding of the major scenarios and war plan contingencies used by the Joint Chiefs of Staff, the Department of Defense, and the Navy that have significance to R&D planning and future service needs.

Primary Goals of Program

The primary goals of the program are to identify potential R&D efforts which may be initiated or supported at NWC in response to the requirements and conditions of the scenarios and war plans evaluation.

Through programs such as these, the Weapons Planning Group attempts to develop information needed by Center management to narrow down what the Center should be doing for the Navy answer the questions of whether or not NWC should be doing more good things along the same lines or should change direction by going into totally different areas than it has worked in before.

This is the Weapons Planning Group, a small group of competent people whose role is to provide data, analysis, interpretations, and recommendations that affect the future programs of NWC and the Navy.

Increasing cost mandates need for reductions in use of electricity

Reductions in use of electricity on the Naval Weapons Center result in two kinds of savings — in energy saved, and, sometimes, even more dramatically, in money saved on the Center's utility bills.

The total NWC energy bill is now running close to \$6 million per year, and about \$3 million of this is for electricity. Projections indicate this will double in less than five years.

Electrical usage is vital to the NWC mission. However, there are definite savings that can be made in total usage and especially in money saved on the NWC utility bills for these items.

Major power users like NWC are charged by Southern California Edison on a Time-of-Use schedule. Depending on the hour of the day when the electricity is used, the rate varies by 380 percent.

Currently, NWC pays an equivalent rate

of nearly 9 cents per kilowatt hour for electricity used during on-peak hours between noon and 5 p.m. in the summer. The cost per kilowatt hour used at mid-peak hours of 8 a.m. to noon, and 5 p.m. until 10 at night, is only a little over 3 cents. Off-peak cost for a kilowatt hour used from 10 p.m. to 8 a.m. is a little under 2½ cents.

Scheduling of electrical use to take advantage of the differing rate structure can result in dramatic cost saving. Water is pumped to fill the Center's reservoirs during off-peak hours, and fire tests were rescheduled for weekends. This results in a savings of the Center's electrical bill of more than \$6,000 monthly.

Rising utility costs have had an increasing impact on the Center's budget. These utility costs in the past totaled about 1 percent of the budget. This year utilities will total 3 percent.

Electricity Used at NWC

	Fiscal Year 1978		Fiscal Year 1979	
	TOTAL		TOTAL	
	KWH	\$	KWH	\$
Oct.	6,708,000		7,070,771	
		211,798.68		244,267.80
Nov.	6,815,666		6,769,996	
		204,170.39		221,108.35
Dec.	7,391,590		7,593,842	
		217,990.87		244,894.73
Jan.	6,798,746		7,441,956	
		215,276.74		252,352.74
Feb.	6,513,878		6,688,822	
		218,325.34		233,156.15
March	7,364,506		7,122,870	
		240,672.74		237,402.31

ELECTRICITY COSTS — Electrical consumption at NWC is reported in total kilowatt hours and total dollar cost. The electrical usage at NWC represents over 50 percent of the utility bill, and is highly dependent on climatic conditions. For instance the fact that FY-79 had 30 percent more heating-degree-days than the winter of FY-78 is reflected in the numbers above. The electrical rates charged a major power user vary according to the hour of the day, with usage during peak demand hours costing more than three times the amount charged the Center for off peak hours.

Nearly 300 temporary positions to be filled this summer at China Lake

(Editor's note: The following news feature on the 1979 Summer Employment Program at NWC was written by Eva Bien, NWC civilian personnel officer. It is carried in the Rocketeer as a matter of information to all civilian employees and military personnel in an effort to have "all hands" understand the program and criteria for each of these programs.)

By Eva Bien

The Naval Weapons Center will fill approximately 300 temporary summer positions this year. The summer employment period is May 13, 1979, through Sept 30, 1979.

The Center's Summer Employment Program is actually made up of five different parts. In simple terms, it can be viewed as five different types of programs. They are:

Group I (clerical positions GS-1 through GS-4) — Applicants must pass the summer written clerical test and are hired based on numerical score. The highest scores are hired first. Each title at each grade level constitutes a list or register (e.g. clerk-typist, GS-3, clerk, GS-3, clerk-steno, GS-2, etc.)

Neotism Rule Not Applicable

The Center will hire approximately 140 Group I applicants. The sons and daughters restriction (neotism rule) is not applicable (unless there are tie scores) in this group because it is all based on written scores.

Group II (Sub-professional or non-clerical positions GS-1 through GS-4) — The Center will hire approximately 115 Group II applicants. Applicants are not required to pass the summer written test. The numerical scores achieved by the applicants are based on their SF-171, Personal Qualifications Statement, CSC Form 1170 / 17, List of College Courses expected to be completed by June 1979, honors / awards and veterans' preference.

Last To Be Hired

The neotism rule applies in this group. That is, sons and daughters of Navy employees will not be considered for Group II positions at Navy activities until all "non-Navy sons and daughters" have been placed. The sons and daughters are on a separate list or register and are placed according to highest numerical score first after the "non-Navy" list or register is exhausted.

The neotism rule is a Federal Employment rule, not just Navy or NWC.

Group III (professional, technical or administrative positions GS-5 and above) — These positions are for professors, college graduates and graduate students. Applicants are rated and ranked on their SF-171, Personal Qualifications statement, CSC Form 1170 / 17, List of College Courses, and veterans' preference, if appropriate.

Sons and daughters of Navy employees are not eligible for Group III summer

Help for back problems

subject of four programs

"Prevention and Self-Help for Back Problems" will be the subject of presentations at the Community Center to be given by Charles Willhite, a certified corrective therapist in the Safety and Security Department.

The purpose of the program is to help employees avoid and in most cases help themselves following back injuries.

Each of the four sessions will combine a film or viewgraph presentation, lecture-discussion, and the use of handouts. Enrollment will be limited to 50 participants with no formal enrollment required.

The first session on Tuesday, May 1, is "Bend Your Knees." This will be followed on Thursday, May 3, with "Understanding the Back," and then on Tuesday, May 8, the subject will be "Flexibility." The last session on Thursday, May 10, will be "Make Life of Lifting." All sessions will be held from 11:30 a.m. to 12:30 p.m.

positions at Navy activities. Approximately 10 applicants will be hired in this group.

Group V (Summer Employment for Needy Youth) — Applicants must be 16 years of age and not over 21 years of age. Applicants will be screened to be sure income criteria is met.

There are four parts to this group. They are: (1) family on or eligible for welfare; (2) family size and income scale - priority No. 1 (lower income than 3); (3) family size and income scale - priority No. 2; and (4) others needing money to return to school. Sons and daughters of Navy employees are not eligible for parts 2, 3 or 4. The Center will hire approximately 30 Group V applicants.

Handicapped — The Center will hire two to four handicapped applicants. There are special state and federal regulations that must be met.

Applicants for summer employment must be U.S. citizens. With the exception of Group V and the handicapped, the minimum age requirement is 18. However, the age requirement is waived for high school graduates who are at least 16 years of age.

Center To Sponsor CETA Program

In addition to the 300 positions filled by the Groups I, II, III, V and handicapped applicants, the Center has agreed to sponsor a CETA program for 30 youths from the Bakersfield area. The CETA program is administered, coordinated and paid for by CETA and the Kern County School District in Bakersfield. The Center provides the work.

There are 640 plus applicants for 300 positions. Therefore, approximately one-half of the applicants will get hired.

Offers will be mailed the first two weeks in May to the 300 names reached according to regulations in the various groups. Applicants will be given the required number of days to accept or decline (5 days if local, 7 days if in California, 10 days if outside the state).

The next set of offers will be sent after the number who have declined or failed to reply to the first 300 is determined.

Because of the volume of work involved in placing 300 employees, it would be appreciated if inquiries regarding summer employment could be held to a minimum until after May 18.

Promotional Opportunities

(Continued from Page 2)

Department. The incumbent will assist in the conduct of ground and air operations of range tests and insure the safety of personnel participating in these operations. The incumbent will monitor the operation of aircraft and ground ranges, record all personnel entering the range and advise the responsible range engineer of any hazards. On all G-1 Range tests, the incumbent will monitor personnel engaged in the operations of opto-mechanical data recording devices, electronic trajectory measuring systems, telemetry equipment. Job Relevant Criteria: Ability to communicate effectively both orally and in writing; knowledge of basic mathematical principles; knowledge of safety practices. Potential to GS-11. Previous applicants need not reapply.

Technical Writer/Editor, GS-1083-9/11, PD No. 7590001, Code (Organization) VX-5 — This position is assigned to Commander, Operational Test and Evaluation Force in Norfolk, Va., and located at Air Test and Evaluation Squadron Five, China Lake, Calif. The incumbent will be responsible for writing parts or all of evaluation test plans, comment letters, long-range program plans, and for editing documents written in support of project evaluations. Incumbent will work closely with project officers and staff specialists in carrying out their responsibilities. Job Relevant Criteria: Ability to prepare technical documents; familiarity with scientific methods associated with test and evaluation; ability to communicate effectively both orally and in writing; ability to work with all levels of NWC personnel. Previous applicants need not reapply.

File applications for the above with Jan Nieberlein, Bldg. 34, Rm. 204, Ph. 2577.

Electronics Engineer, GS-855-11/12, PD No. 7931049, Code 3153 — This position is located in the Infrared Systems Branch, Aircraft Sensor and Laser Systems Division, Systems Development Department. Incumbent will perform analysis and design of flight test target acquisition systems, passive search systems and airborne fire control systems using advanced optical and infrared technology. The incumbent is responsible for testing and evaluating project equipment at the systems level and will serve as a technical consultant concerning specifications and capabilities of long wavelength infrared sensors and acquisition systems. Job Relevant Criteria: Knowledge of basic infrared technology; experience with real time, imaging infrared sensors or long wavelength infrared trackers; experience in designing electronic equipment for the military, airborne environment.



MEMENTO OF VISIT — As a memento of his visit to the China Lake/Ridgecrest area, Francisco Jose Fernandes, leader of a Group Study Exchange Team from Brazil, was welcomed and received an NWC plaque from Bob Hillier, Technical Director. — Photo by Ron Allen

Group Study Exchange Team from Brazil hosted by Rotarians during visit here

Six members of a Rotary International-sponsored Group Study Exchange Team from Brazil were visitors here for three days last week as guests of the Rotary Club of China Lake.

The team was led by Francisco Jose Fernandes, a Rotary Club leader from Leme, Brazil, who is employed as a civil engineer.

Others who are spending a total of six weeks in the United States (mostly in California) as part of a program aimed at helping to further world understanding and friendship, and their occupations, are:

Arnold J. Zenker, a restaurant operator from Leme; Florindo Stela, a psychologist from Campinas; Ivan F. de Domenico, a highway engineer from Rio Claro; Jose Felix Manfredi, a nuclear chemist from Jundiá-Leste; and Fernando L. A. D'Avila, a journalist from Valinhos.

During their visit to the Indian Wells Valley, where they stayed in the homes of

local Rotarians and had the opportunity to learn about the community and some of the activities at the Naval Weapons Center, a brief meeting was held with Bob Hillier, Technical Director. As a memento of this occasion, a NWC plaque was presented by Hillier to Fernandes, the team leader.

The Brazilians' stay in California included stops in San Francisco, Fresno and Bakersfield prior to their arrival in the China Lake/Ridgecrest area.

Nominees as 'Employee in Spotlight' sought

Centerites who feel they have a co-worker who would be a good subject for the "Employee in the Spotlight" column are asked to call Ernest Sutfon of the ROCKETEER at NWC Ext. 3354.

Final selection of an individual by the editor is based on newsworthiness of the person who is nominated.

troubleshooting, ability to read and interpret electrical drawings, ability to use hand and power tools, safety and dexterity, ability to do the work of the position without more than normal supervision.

Electronics Engineer, GS-855-7/9/11, PD No. 7831160, Code 3141 — This position is located in the Guidance and Navigation Systems Branch, Avionics Division, Systems Development Department. Incumbent designs and fabricates special instrumentation and digital circuits for testing laser gyros and other inertial components, conducts tests, assesses data, and writes test reports. Plans and schedules component tests, and makes technical presentations on test results. Advises project engineers on inertial component quality and suitability for potential applications. Job Relevant Criteria: Knowledge of digital and analog electronics design, knowledge of FORTRAN programming language for ATE and data assessment programs; ability to troubleshoot instrumentation and test setups; ability to communicate orally and in writing.

Clerk-Typist, GS-322-4, PD No. 7831065N, Code 3243 — This position is located in the Aerodynamics Branch, Advanced Technology Division, Ordnance Systems Department. Incumbent provides clerical support to the branch, including typing correspondence and technical reports; receiving and screening telephone and office calls; distributing mail; making travel arrangements; filing and miscellaneous clerical duties. Job Relevant Criteria: Ability to perform clerical functions; ability to type accurately and efficiently; ability to exercise fact and judgement; ability to communicate both orally and in writing; ability to perform efficiently under pressure.

Interdisciplinary, GS-12, PD No. 7922033, Code 3273 — This position is interdisciplinary in the following series: Mechanical Engineer GS-830 and Electronics Engineer, GS-855. It is located in the Systems Technology Branch, Propulsion Systems Division, Ordnance Systems Department. The incumbent provides analysis, design, and testing of actuation systems and components. These actuation systems utilize mechanical, hydraulic, pneumatic, electro-mechanical, and electronic control components. Responsibilities include overseeing and integrating a variety of component types to perform the required missile control functions; setting up and utilizing computer performance simulation programs; analyzing mission requirements to develop actuator and control systems requirements and specifications; performing bench, static and operational tests obtaining accurate data; and acting

(Continued on Page 7)