

Old West boom town shindig to aid museum

A two-day boom town — complete with painted ladies, desperados, and other colorful Old West characters — will spring to life during the Hi-Desert Escapade as the Maturango Museum recreates its popular "Maturango Junction."

The outdoor festival will be held in the parking lot next to the museum on the Center from 11 a.m. until 5 p.m. on Saturday, April 22, and from 1 to 5 p.m. on Sunday, April 23.

Florence Green, chairman of the event for the museum, needs lots of help to bring Maturango Junction to a rip-snorting, if temporary, life. She plans to feature businesses with a Western flair: an assay office for purchase of native rock specimens, an old-fashioned photographic shop, a general store, and a saloon for root beer and similar potables.

The jail will again be flourishing as temporary "sheriffs" throw usually upstanding citizens in the calaboose for infractions of the strict Maturango Junction code of laws.

"I'm looking for people to help with the booths and with some of the fun things we have planned," Mrs. Green said. "Please call and volunteer if you can give any time for this enjoyable fund-raiser."

She is also looking for donations for the general store, which is being planned by Rose Varga as a bargain-filled emporium for the treasure-hunter.

Persons interested in making donations or volunteering to help should contact Mrs. Varga by calling 446-3939; Mrs. Green, phone 375-8868; Suzanne Koerschner, at 377-4527; or Liz Babcock, at 375-7900.

Mrs. Babcock, entertainment chairman, also is looking for individuals or groups to perform during the celebration. Entertainment already planned includes gymnastics demonstrations by the Ridgecrest Recreation Department's Hi-Desert Tumbleweeds and a precision flag routine by a section of the Desert Suns Color Guard, as well as songs by folksinger Bud Sewell and "dance hall girl" Suzanne Koerschner.

Volunteers are needed to wield paintbrushes and transform theatrical flats into the store-front town of Maturango Junction. Painting and construction work parties under the supervision of Jay and Mary Kay Bornfleth will be building the "town" every day from now through April 20 and will set up the booths on April 21.

"We need as much help as we can get," Mrs. Green emphasized, reminding potential participants that proceeds from Maturango Junction will benefit the museum's building fund.

Some of the activities planned to date are a tattooed lady makeup and tattoo booth run by Mrs. Koerschner; Phyllis Wise's ice cream parlor; Bob Pinney, creating old-time, keepsake photographs; and a "saloon" run by Mary Witcher.

During the festival, the museum will be open to give participants a chance to see its collection of historical and nature displays.

COM announces special events, menus for week

Tonight is "diner's night" at the Commissioned Officers' Mess from 6 to 10 with a wide variety of menu selections including prime rib of beef, surf and turf, broiled lobster, and crab legs and claws.

Tuesday will be "Dine Out at the Club" night from 6 to 9. There will be a wide variety of excellent food on the menu.

Thursday from 6 to 10 is "Italian Night" once again, with the "all you can eat" spaghetti plate at \$1.75 for adults and \$1 each for children.

Appearing nightly for the listening pleasure of COM patrons is George French at his Lawry organ.



QUALIFIED AS A-7E CORSAIR II PILOTS — Two Naval aviators assigned to Air Test and Evaluation Squadron Five (VX-5), under the command of Capt. L. E. Giuliani (at right), recently received models of the A-7E Corsair II aircraft in recognition of the fact that they are now qualified to fly this aircraft. The models were presented to Navy Lt. Denny C. Draper (at left) and Air Force Capt. Connie C. Juneau by M. R. Matthews, Vought Corp. representative. Lt. Draper reported to VX-5 in July 1977 from VA-115, Yokosuka, Japan, where he had flown A-6E Intruder aircraft from the USS Midway. Capt. Juneau reported at the same time from England Air Force Base in Louisiana, where he flew A-7D aircraft with the 75th TFS (TAC). Capt. Juneau is assigned to VX-5 under the Armed Forces Officer Exchange Program. —Photo by PH1 R. L. Ziesler

Preparations near completion for Kern County Art Festival

Preparations are nearing completion for the Area IV show of the Kern County Art Festival, which will be held at the Community Center on Saturday and Sunday, April 22 and 23.

This annual event is sponsored locally by the Desert Art League, which underwrites its costs and handles the arranging and hanging of the art work that is displayed.

Chairman of this year's show is Jerry Halpin, a test engineer in the Environmental Engineering/Inspection Branch of the Naval Weapons Center's Range Department, who is president of the Desert Art League. He is being assisted by Lorraine McClung as co-chairman.

Featured will be art work from the Desert Art League, Sierra Sands Unified School District, St. Ann's School, the Seventh Day Adventist School, Ridgecrest Christian School and Burroughs High School.

Viewing hours for the Area IV show, which is one of ten art festivals held in Kern County during the months of March and April, will be 2 to 8 p.m. on Saturday, April 22, and 11 a.m. to 5 p.m. on Sunday, April 23. Admission is free.

First place winners here will be sent to Bakersfield to compete in the finals that will be held in May at the Cunningham Memorial Art Gallery.

The participating artists will range from kindergartners through adults, Halpin said. There are expected to be 350 elementary and junior high school entries, 45 high school entries, 75 adult amateur and 40 professional entries.

In addition, a half dozen local artists and craftsmen will demonstrate various art techniques and media during the two-day show.

The Desert Community Orchestra Association invites young people who intend to pursue studies in musical fields to submit applications by April 21 for the Orchestra Association's annual scholarship award, which is to be presented at the orchestra's concert on May 21.

The scholarship is presented each year to a high school graduating senior, a music student at Cerro Coso Community College, or a member of the Desert Community Orchestra Association, and is intended as financial assistance for further musical studies for especially promising young musicians.

Recipients last year were Lisa White and Karin Randle, both of whom used their scholarships to help defray expenses of their first year of college. The two young singers are pursuing musical studies, Miss White at California State University in Northridge and Miss Randle at California Lutheran College.

Music students applying for this year's scholarship are invited to write a letter to the board of directors of the Desert Community Orchestra Association. The letter should include information on the student's plans for study, field of study, and aims and goals in music. Each applicant will be interviewed by a committee representing the music teachers of the community.

Applicants' letters should be sent to the Scholarship Committee, Desert Community Orchestra Association, P.O. Box 1988, Ridgecrest, and should reach this address by the April 21 deadline. Additional information may be obtained by calling Elizabeth Babcock, Orchestra Association vice-president, at 375-7900.

SHOWBOAT

MOVIE RATINGS

The objective of the ratings is to inform parents about the suitability of movie content for viewing by their children.

(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.

Program subject to change without notice.
For further information call NWC ext. 2259

FRIDAY 14 APRIL

"IT'S ALIVE" (91 Min.)
John Ryan, Sharon Farrell
(Horror-Drama) An expectant mother, a devoted father, and a pre-teen son are looking forward to the birth of the new family member. When born, the baby brutally murders everyone in the delivery room except the mother and escapes through the skylight. Similar atrocities occur throughout the city, and the police hunt the mutant baby-monster. (PG)

SATURDAY 15 APRIL

"WATCH OUT, WE'RE MAD" (102 Min.)
Bud Spencer, Terrence Hill
1:30 p.m. Matinee
(Adventure Drama) Ben (Spencer) and his friend Kid (Hill) are garage mechanics who own a dune buggy which has won a race. A band of hoods terrorize the neighborhood and destroy the buggy. The two set out to track them down and replace the buggy. (G)

"BARRY LYNDON" (185 Min.)
Ryan O'Neal, Marisa Berenson

(Historical Drama) This film is a picturesque recreation of an 18th century Irish rogue, played by O'Neal, and based on a novel by William Thackeray. With equal measures of luck and larceny, he rises from rural roughness to gentlemanly eminence. (PG)

SUNDAY 16 APRIL

"HEROES" (113 Min.)
Sally Field, Henry Winkler

(Comedy-Drama) Winkler is a Vietnam veteran with psychological problems who is recently discharged from a Veterans' Hospital. Some fellow patients have entrusted him with \$1,000 to invest in a worm farm which he plans to start with three war buddies. He encounters Sally Field on the bus to California and they strike up a friendship. Later, he must cope with the disillusionment of learning that his friends cannot join him in the worm farm venture. (PG)

TUESDAY, THURSDAY 18, 20 APRIL

"ANNIE HALL" (94 Min.)
Woody Allen, Diane Keaton

(Romantic Comedy) This year's winner of five Academy Awards is Allen's recreation of a love story between a contemporary neurotic comedian and an awkward but vivacious would-be singer. They meet at a tennis doubles match and both enter into their romantic affair somewhat hesitantly. Allen encourages the awkward Keaton to obtain a better education and helps her to become a polished singer. He describes his childhood life in Coney Island and his later psychological problems in comic flashback sequences throughout the film. Keaton gradually acquires strength through their bittersweet relationship. (PG)

WEDNESDAY 19 APRIL

"FOXTROT" (90 Min.)
Charlote Raspling, Peter O'Toole

(Drama) A wealthy Englishman becomes a recluse in a fancy abode which he builds on a deserted tropical island. (R)

FRIDAY 21 APRIL

"POLYNESIAN REVIEW"
Program of authentic Polynesian songs and dances

SATURDAY 22 APRIL

"NO DEPOSIT, NO RETURN" (111 Min.)
David Niven, Barbara Feldon

1:30 p.m. Matinee
(Comedy) Two youngsters are faced with the unpleasant prospect of spending another vacation with their grandfather (Niven) while their mother manages business affairs in Hong Kong. They concoct a scheme to fake their own kidnapping and demand a ransom from their wealthy grandfather. Part of the ransom money is to go toward plane tickets to the Orient where they hope to meet their mother. (G)

U.S. Government Printing Office: 1978 - No. 121

From: _____

PLACE STAMP HERE

To: _____



YN2 Linda L. Bomberger

Navy woman gets NWC Bluejacket of Month honor

The Naval Weapons Center's Bluejacket of the Month for March is Yeoman Second Class Linda L. Bomberger of Air Test and Evaluation Squadron Five. She is the squadron's administrative office supervisor.

YN2 Bomberger, a native of Miami, Fla., has been attached to VX-5 since April 1, 1975, after she completed recruit training and Yeoman "A" School.

She was cited for her "innovative and efficient methods... high level of quality and reliability" and for volunteering for many extra hours of squadron work.

YN2 Bomberger was VX-5's number one second class petty officer on the basis of 1977's performance evaluations.

In addition to her normal duties as a supervisor, she is also the squadron's legal yeoman, drug exemption representative, professional development board member and WAVE ombudsman and is a former EM Club Advisory Board member and former Human Relations Council member.

In the citation recommending her for the Bluejacket of the Month honor, YN2 Bomberger was credited with having

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Naval Weapons Center
China Lake
California
Vol. XXXIII, No. 15

Low Energy Structures Program is aimed at discovering more ways to conserve energy

Energy can be thought of as water; if poured into a bucket with holes in the bottom, this nation's dwindling natural resources are wasted. To conserve energy it is necessary to reduce the number of holes in all the leaky buckets across the country.

This is the view of David Wirtz project engineer in charge of the Low Energy Structures (LES) Program at the Naval Weapons Center.

To Wirtz, an engineer in the Ordnance Systems Department's Applied Research and Analysis Branch, the LES Program is the fulfillment of years of effort aimed at selling the idea that discovering ways to structurally conserve energy is just as important as research into developing new energy sources.

Two Concepts Combined
The LES system will ultimately combine two low energy concepts: (1) the louvered atrium and (2) the thermal mass and environmental buffering capability of the earth.

The first of these concepts can best be understood by visualizing the way the old Mexican haciendas were built around a central, enclosed patio with a few or no windows on the outside walls. In the LES system, this central patio, or atrium, is enclosed at the top by glass and large louvers that control the amount of light and heat entering the center of the structure.

These louvers are adjusted to admit more or less solar heat and light, depending upon the season and time of day. Landscaped with trees, flowers, and a miniature



LIGHT AND HEAT REFLECTORS—Richard Fulmer (left) and David Wirtz inspect the light louvers on the Center's experimental Low Energy Structure test cell. Fulmer is the head of NWC's Energy Program Office, while Wirtz heads the LES project for the Ordnance Systems Department's Advance Technology Division. The reflecting surface on the louvers direct sunlight and solar heat into the building during winter. The louvers seal at night and are made of polyurethane foam covered with glass cloth and resin. In the winter the louvers face the south for greater heat and light; in the summer they face the north. —Photo by Alan Fry

waterfall, this inner, encased atrium will provide esthetic, visual and lighting needs for the surrounding rooms.

The louvers are highly insulating when closed to greatly lessen heat loss during winter nights. By facing the open louvers south during the winter months, they will

deflect direct sun radiation into the atrium for passive heating of the structure. The louvers open facing north in the summer when only indirect solar radiation is needed for lighting.

Since the atrium satisfies the visual and lighting needs, exterior windows can be eliminated. With no need for exterior windows, this initial concept can be combined with the thermal mass and environmental buffering of the earth concept and be built right into the ground.

Wirtz, Garyl Smith, Ted Herling and other applied research personnel are building a LES type test cell at the Center to evaluate these louver-atrium and high thermal mass buffering concepts. This structure is nearing completion in an old solid propellant storage revetment in an area of the Ordnance Systems Department.

Heat Changes To Be Studied

When finished this year, program personnel will study the rate with which the structure loses heat to and gains heat from the environment in an effort to reduce the energy required to maintain comfortable conditions inside. Fossil fuel derived heating in the winter, if needed at all, should be minimal.

The test cell has only two outside windows, in addition to the covered atrium. Since windows are tremendous heat loss areas, the LES team will be looking at the best way to insulate the windows in the test cell.

The atrium cover and the windows in the test cell structure have been double-paned and carefully fitted because the second greatest heat loss results from air squeezing into a building through cracks around windows and doors.

The Center's experimental low energy test cell also has two doors leading to the outside through a foyer. Thus, depending on the time of year, heat or cold can be kept in or out as required.

Heat loss through windows, and convection through cracks and doors of an insulated structure can account for up to 70 percent of a building's energy exchange with its environment. The other 30 percent

(Continued on Page 5)

Boyd commended for outstanding effort while serving as acting department hd.

A Sustained Superior Performance Award in recognition of the outstanding manner in which he handled the responsibilities of acting head of the Systems Development Department from May 1977 until March 31, 1978, was presented to Richard V. Boyd during Monday morning's Commander's meeting.

This award for Boyd, which was approved by Rear Admiral William L. Harris, NWC Commander, was presented by R. M. Hillyer, Technical Director, who had originated the recommendation that Boyd be singled out for this distinction.

Boyd, formerly associate head of Code 31, became acting head of the department at the time that Dr. Marguerite Rogers became acting head of the Laboratory Directorate — a position which she held until last week.

In the letter of commendation which accompanied the Sustained Superior Performance Award to Boyd it was noted that his effectiveness in carrying out the responsibilities of a department head allowed Dr. Rogers to function with full efficiency in her assignment as Acting Laboratory Director — a set of circumstances that contributed to the well being of the Naval Weapons Center and Code 31.

"I know," Hillyer wrote in the letter of commendation to Boyd, "that acting in a position is extremely difficult. You took over in an exemplary fashion and at times it was difficult to tell (thankfully) that you were acting."

In his capacity as acting department head, Boyd led and directed the Center's growing program and build up of expertise

in aircraft software and avionics systems and, at the same time, dealt effectively with numerous knotty management challenges, including a major reduction-in-force, the implementation of zero base budgeting, travel and budget constraints, cutbacks in billets and high-grade allocations, and space limitations.

This latest recipient of an NWC Sustained Superior Performance Award also was

commended for his contributions to the Technical Planning Board, and for the leadership that he provided to his department.

In addition, the NWC Technical Director made note of Boyd's enthusiasm, organizational abilities, competence, and knowledge of department and NWC programs which "make him a valuable asset to the Center."



—Photo by PH2 Tony Garcia

OUTSTANDING JOB REWARDED — R. M. Hillyer, NWC Technical Director, was obviously quite pleased that the advance news of a Sustained Superior Performance Award hadn't "leaked" to Richard V. Boyd (at left), prior to its presentation to him at Monday morning's Commander's meeting. Boyd was commended for his outstanding effort during the ten months which he served as acting head of the Systems Development Department.

UNITED STATES ARMY
ELECTRONICS RESEARCH
AND
DEVELOPMENT COMMAND
HARRY DIAMOND LABORATORIES



CONTRIBUTE TO SYMPOSIUM—Eight employees of NWC presented papers last week during an Infrared Information Symposium on Infrared Countermeasures held at the Harry Diamond Laboratories in Adelphi, Md. China Lakers who traveled to the east coast for this purpose were (kneeling, l.-r.) Dr. George Handler, Stuart Breil, Dr. Darrell Walker and Dr. Mel Nadler. Standing are (from left) Bill Capps, Dorothy Saitz, Barry Thompson and Joe Socolich.

Center employees attend 3-day Infrared Information Symposium

A group of eight Naval Weapons Center employees spent three days last week attending the 16th Infrared Information Symposium (IRIS) on Infrared Countermeasures that was held at the Harry Diamond Laboratories in Adelphi, Md., and sponsored by the Office of Naval Research. Topics covered at this symposium included all forms of both active and passive electro-optical countermeasures as they apply to Navy, Marine Corps, Army and Air Force systems.

The wavelength regions included visible infrared and ultraviolet. This year there was special emphasis on the effects of

smoke and camouflage on both passive and active systems. Of the 47 papers presented, 8 were from the Naval Weapons Center:

Four of the participants in this symposium are employees of the NWC Weapons Department's Optical Signatures Branch. Their names, the jobs they hold, and the titles of the papers which they presented, are:

Bill Capps, head of the Optical Signatures Branch, "IR Measurements of the CH46 Helicopter;"

Dorothy Saitz, mathematician, "Field Testing of Passive Countermeasure Coatings on Fixed Wing Aircraft;"

Joe Socolich, mechanical engineer, "Solar Reflectance Measurements of CH-46 and CH-53 Scale Model Helicopters;"

Barry Thompson, physicist, "Comparisons of Standard and Low-Reflectance Infrared Paint on Marine Corps Helicopters."

Other Centerites who attended the symposium, their jobs, and the titles of their research papers, are:

Dr. George Handler, an operations research analyst in the Weapons Planning Group, "Active Aircraft Plume Suppression;"

Stuart Breil, a physicist in the Ordnance Systems Department's Applied Research and Analysis Branch, "Solar Reflection/Helicopter Survivability Analysis;"

Dr. Darrell Walker, an aerospace engineer in Code 32's Propulsion Analysis Branch, "Effectiveness Evaluation of the Roman Candle and Mark 46 Mod 1A Decoys for Protecting the CH 53-D Helicopter and A4-E Aircraft;"

Dr. Mel Nadler, a research chemist in the Applied Science Branch of Code 32, "Spectral Measurements of the Roman Infrared Decoy."

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. 2049. Ads will run for one week and will close at 4:30 p.m. on the Friday following their appearance in this column, unless a later date is specified in the ad. Employees whose work history has not been brought up to date within the last six months are encouraged to file a Form 171 or 172 in their personnel jacket. Information concerning the Merit Promotion Program and the evaluation methods used in these promotional opportunities may be obtained from your Personnel Management Advisor (Code 094 or 097). Advertising positions in the Promotional Opportunities column does not preclude the use of alternate recruiting sources in filling these positions. As part of the rating process, a supervisor appraisal will be sent to the current supervisor and the most recent previous supervisor of those applicants rated as basically qualified. The Naval Weapons Center is an equal opportunity employer and selection shall be made without discrimination for any nonmerit reason. The minimum qualification requirements for all GS positions are defined in CSC Handbook X-118, while those for all WG, WL and WS positions are defined in CSC Handbook X-118C.

Clerk-Typist, GS-322-3/4, PD No. 7809908, Code 09, in-terminant position—This position is located in the Personnel Department. While operating throughout the entire Personnel Department on an as-needed basis, the majority of effort of the clerk-typist will be spent in the Personnel and Organization Development Division and in the Personnel Automated Data Group. The duties are to provide typing and other clerical assistance for special projects and to assist in unusual workload situations. Job Relevant Criteria: Must be an accurate typist. Must have the ability to work effectively under pressure; ability to work with others; ability to interpret and apply written instructions.

Model Maker, WG-4714-14, JD No. 600, Code 622—This position is located in the Track Operations Branch, Range Operations Division of the Range Department. The duties are to plan, machine, assemble, install, test and modify complete structural and mechanical prototypes or experimental models and parts thereof of track, vehicles, camera components, ordnance test items and other related devices required for track field testing. Job Relevant Criteria: Ability to do the work of the position without more than normal supervision. Ability to do the theoretical, precise and/or artistic work of a trade. Theoretical and practical knowledge of metals used in accomplishing the work required of the position. Ability to interpret blueprints and understand dimensions, shape, material, finish, etc. Knowledge of the physical and functional characteristics of equipment and components as well as tools of the trade. Ability to use measuring devices for determining where to cut, how to cut, how to fit, how to mark material, etc. Supplemental is required and may be picked up in Rm. 204 of the Personnel Building.

Employee Development Clerk, GS-203-5, PD No. 7809907, Code 094, part-time—This position is located in the Personnel and Organization Development Division, Personnel Department. The primary responsibility of the position is to provide assistance to the Personnel Research Psychologist/Employee Development Specialist, who is responsible for administering the Special Interest, Career Expansion Workshops, and General Skills Training Programs. The incumbent is the focal point from which information on these employee development opportunities is disseminated. Job Relevant Criteria: Must have a thorough knowledge of course enrollment and test scoring procedures; must be familiar with government regulations in such areas as the Employee Assistance Program, the Equal Employment Opportunity Program, and the Training Information Management System (TIMS); must possess skills to communicate effectively both orally and in writing and be able to type. Knowledge of training regulations and procedures as outlined in the Federal Personnel Manual is essential. Potential to GS-4, Employee Development Assistant. Previous applicants should reapply.

Clerk-Typist, GS-322-4, PD No. 7802093, Code 025—This position is located in the Ordnance Division, Range Department. Major duties include screening correspondence, maintaining files and records, typing technical reports and correspondence, receiving telephone calls and visitors. Job Relevant Criteria: Ability to handle a variety of situations concurrently, ability to deal effectively and tactfully with all levels of personnel, ability to work with a minimum of supervision. Knowledge of Navy correspondence procedures and Center and Navy policies and regulations.

Materials Engineer, GS-804-11, PD No. 7455004E, Code 3614—Position is located in the Engineering Department, Engineering Services Division, Materials Engineering Branch. Responsible for the determination of mechanical and thermal properties of materials, analysis of metallurgical structure, hardness determinations and structural properties. Devises test format and designs devices required for tests. Adapts or modifies existing test designs and methods to meet the special requirements. Incumbent serves as a consultant to Center project engineers on metallurgical problems. Job Relevant Criteria: Background in theoretical and practical metallurgical engineering. Knowledge of metallurgical theory and principles of metals and alloys, heat treatment, fabrication, processing, testing and mechanical facets of physical science. Knowledge of laboratory instrumentation associated with these processes. Ability to develop effective coordination and secure cooperation in accomplishment of assigned projects. Promotion Potential: GS-12.

Supervisory Electronics Technician, GS-854-11, PD No. 7834058E, Code 36411—Position is located in the Engineering Department, Engineering Prototype Division, Electronic Prototype Branch, Prototype Development and Packaging Section. Purpose of this position is to provide technical and administrative direction of the Prototype Development and Packaging Section and to individually participate in the technical work carried out in the Section. Incumbent is responsible for implementing the interactive graphics design process for the production of printed circuit board designs. Is required to develop circuit layouts, mechanical placement of components and is consulted by design engineers on suitability of the electronic maintainability of the package. Is required to develop test procedures for the end item which is to be included in the formal documentation package as a requirement of the production contractor's acceptance test procedures. Incumbent supervises the AMRIP repair station which repairs critical circuits of high density and encapsulated assemblies. Incumbent provides technical and administrative supervision to three electronics technicians, two electronics workers, a model maker, and one apprentice electronics mechanic. Job Relevant Criteria: Must have a minimum of three years experience in the application of electronics to guided missiles and other ordnance items. Experience utilizing a variety of fabrication processes in packaging and construction of electronic hardware, particularly military ordnance hardware to military specification, is highly desirable.

Equipment Mechanic Helper, WG-3352-5, JD No. 461N, Code 36421—Position is located in the Engineering Department, Engineering Prototype Division, Resource Management Branch, Code 36421. Purpose of this position is to assist/technician in the maintenance and repair of all types of technical equipment and machinery. Incumbent performs the simpler tasks of the trade on their own, including the use of journeyman tools and machining.

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35 YEAR PIN PRESENTED—Congratulations are offered by Dr. Marguerite Rogers, head of the Systems Development Department, as she presented a 35 year Federal service pin to Lee Lakin, head of the Computer Sciences Division in Code 31. Lakin, who has been at China Lake since the summer of 1946, served as a meteorologist on weather reconnaissance missions over the North Atlantic for 3½ years during World War II prior to joining the ranks of Civil Service employees in the early days of the Naval Ordnance Test Station. A former employee of the old Test Department, he was (at different times) in charge of all photographic instrumentation on the ground ranges, in charge of data reduction, and headed the data automation group. For the past 15 years, he has been head of the Computer Sciences Division.

correspondence procedures and Center and Navy policies and regulations.

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

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DIVINE SERVICES

PROTESTANT
Sunday Worship Service 1015
Sunday School - All Ages 0900
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
Sunday 0700 0830 1130
Nursery, Chapel Annex 1 0815 1245
Daily except Saturday, 1135, Blessed Sacrament Chapel

CONFESSIONS
Daily 1115 to 1130
Saturday 1415 to 1645
Sunday 0800 to 0825

RELIGIOUS EDUCATION CLASSES
Sunday First thru 6th grades 1015
Sunday Pre-school & kindergarten 1115
Sunday seventh & eighth (Junior High) 1900
Above classes are held in the Chapel Annexes across from the former Center Restaurant.
Sunday evening Ninth thru 12th grades
As announced "In Home" Discussion Groups Youth Rallies
Contact Chaplain's Office for specifics.

JEWISH SERVICES
EAST WING - ALL FAITH CHAPEL
Sabbath Services every Friday 1930

UNITARIANS
CHAPEL ANNEX 95
Sunday Services - (Sept. May) 1930

Sidewinders retain lock on 1st place in Premier League

The Raytheon Sidewinders continued to maintain a lock on first place in the Premier League, following Monday night's action at Hall Memorial Lanes.

The Sidewinders and their nearest rivals, the Fisher Plastering keglers, both dropped one of their three games with the result that the league leaders still remain in front by 6½ games.

The Saddleback Sales squad, which is in third place, has a one-game edge on the Elks Lodge bowlers, who have dropped back to fourth.

High team game for the night was the 969 rolled by Ace Realty, while the Best Realty squad came up with a 2,768 total for high team series honors.

Individual bowlers over the 600 series mark were Ray Freascher (622), Aaron Kane (612), Thad Brightwell (611), and Chuck Albright (609).

Premier League bowlers who had individual game scores in excess of 220 were: Brightwell (244), Bill Esch (235), Albright (234), Dick Fustenberg (227 and 221), Freascher (226), Ken Davis (225), Kane (222), and George Bowles and Warren Turnbaugh (221).

Current standings in the Premier League are:

Team	Won	Lost
Raytheon Sidewinders	61½	25½
Fisher Plastering	55	32
Saddleback Sales	51½	35½
Elks Lodge	50½	36½
Ace Realty	49	38
Best Realty	44	43
Hideaway	43	44
Pollock Construction	37½	49½
The Place	32½	54½
King Max	11½	75½

Youth soccer . . .

(Continued from Page 6)

second half to put the Spirits out in front. Brothers Clint and Vince Caffee played well to keep their team in there; but near the end of the match, Greg Phillips blasted in a 25-yard free kick for the Apollos to even the score.

Teammates Bryce Richards and David Stocking saved the Apollos several times with their defensive efforts to hold the final tally at 1-1.

During the morning's finale, a light rain and Cobras players Kerri Corzine, Greg Holm and Jimmy Kight dampened the Eagles' spirits.

Kight hustled in a score, after blocking an attempted Eagles' goal.

The Cobras' Scott Hamilton made some long runs with the ball to set up scores, while David Brown, Andy Corzine and Kyle Blecha were defensive standouts.

Tomorrow's game schedule at Davidove Field lists the Atoms against the Rogues at 9 a.m. and the Cobras versus the Eagles at 10:30, while the T-Birds will face the Spirits at 11:30.

Rec. Round-up . . .

(Continued from Page 6)

and swimming pool is reserved for women only from 6:30 to 9 p.m., and there is a women's exercise class from 7 to 8 p.m.

The fee for participation in this class, which is taught by Kelly Moulton, is 50 cents each.

11th ND Bowling Tourney
Two military men from the Naval Weapons Center — Danny Carlson and Charles Coppus — survived the first round of 11th Naval District preliminary bowling competition last weekend at Long Beach, and will return this weekend to attempt to qualify for the all-Navy bowling championships coming up May 15 through 19 at the Naval Station, Charleston, S.C.

Carlson had a 12-game total of 2,180, while Coppus flattened 2,045 pins.

In addition, two military women bowlers from NWC automatically qualified for the second round of Navy women's bowling competition just by participating last weekend at Long Beach. They are Bonnie Shannon and Shelly Villar.

Employee in the spotlight

Living and working in the Mojave Desert hasn't weakened the call of the sea that has beckoned this week's Employee in the Spotlight for nearly 30 years.

Ruel Cameron, 47, a management analyst in the Office of Finance and Management, spends most of his spare time preparing his 36-foot sloop, the "Tahuna," for offshore sailboat racing.

For the past four years, Ruel, the Tahuna (homeported at Terminal Island), and the 4-to-6-men crews which he principally recruits from China Lake, have logged more than 11,000 nautical miles, nearly half in competition.

He rates experience and seamanship at the bottom of the list of prerequisites for crew members.

"What it takes is someone who really wants to get out there and race — a person who is going to try and do his darndest to win."

Ruel reflects that determination. Last year, he entered the Tahuna in the Los Angeles-to-Honolulu race against odds that he might not even have been accepted.

The application asked for the number of trans-Pacific races he had either won or placed second or third in and how many times he had been a crew member in a trans-Pacific race on a boat that had won, placed or showed.

Sailed in Mazatlan Race

Since he hadn't ever been in a trans-Pacific race, he said that his answers to these questions were "a little embarrassing." However, the application also asked simply if he had been in any other long-distance races, and the year before, he had sailed the Tahuna in a 1,200-mile race to Mazatlan, Mexico.

"If I hadn't of entered that one, I might not have made the race to Hawaii," he said.

During the first half of the two-week-long Hawaii race, the Tahuna held its own and was 13th in a field of 56 on the seventh day. She was spanking along before a 40-knot fresh gale on the edge of a storm that had de-masted five less-fortunate boats closer to its center.

Flying as much canvas as he dared and straining for that extra fraction of a knot, Ruel's spinnaker sail shredded. He had lost the other one he was carrying two days before. Without a spinnaker, the Tahuna finished last.

The loss of the \$1,000 sail, Ruel said, is an example of how things can go wrong in a hurry when you are pushing a boat beyond its designed capacity to perform. And, that, he added, is really what sailboat racing is all about.



Ruel Cameron

The Tahuna is designed to cruise at 7.4 knots, maximum, with 500 sq. ft. of normal working canvas, comprising a mains'le and jib. But, she can fly up to four sails which total 2,300 sq. ft., out of an inventory of 14 sails costing \$750 to \$1,000 each. With that extra 1,800 sq. ft., she can do up to 11.5 knots.

The Tahuna has an instrument that can measure her speed to within 1/100th of a knot. That amounts to 60 feet in an hour, Ruel explained.

"Crewmen on watch are constantly trimming sails and doing whatever else they can to squeeze out that extra 60 feet per hour. On a long race of several days, it could make a lot of difference," he said.

So, there's not much time for taking advantage of the relaxation that goes along with sailing. "Sailing is probably one of the most relaxing things on earth; it's quiet and peaceful. But, not competitive sailboat racing," Ruel said. "Racing is a whole different ballgame. You're constantly trying to get the boat to do something it's not supposed to do."

With all that activity during a 12-hour watch, plus the cleaning, cooking and maintenance chores that must be performed, crew members on the Tahuna during a long race have little time for anything else but sleep.

"It's amazing how quickly you can adapt to the ability to go to sleep whenever you want to — lying down, sitting or even standing up!"

Because of the need to sleep when they can, crewmen seldom sit around playing cards or checkers. "You don't want that

kind of interference," he said, and everyone respects everyone else on this score.

Next to the will to win, Ruel said that his crewmen have to demonstrate an ability to get along with people. "A guy can be the greatest sailboat racer in the world, but if he can't get along with the rest of the crew, you don't want him."

On a boat the size of the Tahuna, "You're always right up against everyone else on the boat," he said.

Another important morale factor during a long race is menu planning. Since the Tahuna cannot manufacture her own fresh water, Ruel lays in a supply of food that contains a lot of liquid and avoids dehydrated foodstuffs. Still, he tries to vary the meals.

He said that he was watching a skipper lay in stores for a race to Tahiti. "He loaded 14 cases of corned beef hash. I thought 'Boy, that crew is going to be eating corned beef hash for breakfast, lunch and dinner for three weeks!'"

18 Months of Preparation

Planning a menu and laying in four weeks of stores (two weeks extra, just in case) is only part of the 18 months of effort that goes into preparing for a trans-Pacific sailboat race. Ruel said that he has worked as many as 50 weekends out of the year on the Tahuna.

He is already getting ready for the next race to Hawaii in July 1979. He is now a member of the Trans-Pacific Yacht Club, and since he finished last year's race, he doesn't think he'll have any trouble getting into it.

"They don't like to turn their own down," he said.

Ruel, a bachelor, finds obtaining and retaining crew members a continuing problem. One of his biggest obstacles, he said, is that most interested crewmen are married, and they find it difficult to be away from their families to prepare for the race and spend the two months it takes to sail to Hawaii and back.

But, so far, he hasn't been defeated in his attempts to find other China Lakers like himself who crave to exchange blowing sand for the splash of salt water on their faces.

9-day clinic to help Center smokers who want to kick habit

Twenty NWC employees will be able to take advantage of a Stop Smoking Clinic to be conducted from April 29 through May 7 at the Training Center.

Jeffery Wells, the Smoking Clinic Administrator and chief clinician of the LaVina Hospital for Respiratory Disease in Altadena, Calif., will meet with each of the program participants for individual appointments lasting 30 to 45 minutes daily, beginning on Saturday, April 29.

During each session, the participants will smoke from 4 to 7 cigarettes rapidly, so they are urged to check with their own physicians about any safeguards required about rapid smoking. At the same time, each participant is also urged to talk with the physician about the health benefits gained from not smoking.

Individuals participating will keep daily records outside the clinic indicating their urges to smoke and what situations were involved, intensity and duration of the urges, and comments.

Most participants in this program stop smoking on the fourth through eighth day.

Those wishing to participate should bring a check for \$160 made out to LaVina Hospital to Carol Corlett in Room 106 of the Training Center. Those who complete the program will receive a refund of \$20. Appointments will be scheduled at the time of payment on a first come, first served basis, and no appointments will be scheduled without a payment.

Anyone wishing further information should contact Lynn Lacey, Employee Assistance Program Advisor, or Carol Corlett, by calling NWC ext. 2574.



VX-5 WARRANT OFFICER PROMOTED—Chief Warrant Officer M. D. Gieck (center) is congratulated by Capt. L. E. Giuliani, Commanding Officer of Air Test and Evaluation Squadron Five, upon his promotion to CWO3. The ceremony occurred in the Captain's office with Mrs. Gieck present. CWO3 Gieck is VX-5's Aircraft Division Officer. A veteran of more than 18 years of Naval Service, CWO3 Gieck reported to VX-5 in February from duty at Naval Air Station, Jacksonville, Fla. Prior to his warrant, which he received in 1971, CWO3 Gieck was a chief parachute rigger and saw duty aboard the carriers USS Ranger and USS Constellation in Southeast Asian waters during the Vietnam War. As VX-5's Aircraft Division Officer, he manages personnel in five squadron work centers: power plants, airframes, aviation equipment, corrosion control and phase maintenance. The Giecks and their four daughters, Theresa, Vicky, Carmine and Annmarie live aboard the Center.

—Photo by PH1 Robert Ziesler

New books listed at NWC library

A complete list of new books is available in the NWC library. Library hours are: Monday thru Friday: 1-9 p.m.; Saturday & Sunday: 12-6 p.m. Centerites are reminded that all employees or military personnel, regardless of their place of residence, are welcome to use the NWC library.

FICTION

Alfred Bester—The Light Fantastic.
Diana Haviland—The Moreland Legacy.
Ngao March—Black as He Is Painted.
Mary E. Pearce—Apple Tree Lean Down.
Richard Martin Stern—Snowbound Six.

NON-FICTION

Irving Litvag—The Master of Sunnybank: A Biography of Albert Payson Terhune.
Peter Mansfield—The Arab World: A Political and Social History.
Ruth Rudner—Off and Walking: A Hiker's Guide to American Places.
Bill D. Schul—How To Be an Effective Group Leader.
David Vestal—The Craft of Photography.

The Rocketeer

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Rear Admiral William L. Harris

NWC Commander

R. M. Hillier

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Technical Information Department

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Staff Photographer



DEADLINES
News Stories Tuesday, 4:30 p.m.
Photographs Tuesday, 11:30 a.m.
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Phones 3354, 3355, 2347

Results announced of games played in youth soccer league

Two games that ended in ties and a 3-0 victory were turned in by teams competing last Saturday in the NWC Youth Center's spring soccer league.

The National Division's Cosmos and Rogues fought the scoreless battle, while between American Division contenders, the Spirits and the Apollos reached the 1-1 draw and the Cobras shut out the Eagles in the 3-0 tilt.

In the scoreless tie, the Cosmos got strong offensive play from Tom Rindt and Paul Roper and good defensive action from Seamus Freyne and Paul Wydra. The Rogues' Mike Ackerman, Rich Moreno and Kyle Lecky kept pressure on the Cosmos' goal, but were unable to score.

Chris Wagner at the center-fullback position and new backs Jade Featherston and Mickey West turned in excellent defensive roles for the Rogues.

In the contest between American Division co-leaders, the Spirits and the Apollos, Kevin Featherston scored midway in the

(Continued on Page 7)

Invitational softball tournament gets underway today

The 1978 season of fast pitch softball competition at China Lake will get underway in grand fashion today with a three-day invitational tournament that has drawn a total of 17 teams — including two championship squads from Nevada.

Pre-tourney favorites in this event — which has been labeled the China Lake Early Bird Softball Tournament — are the Reno Toyota squad, which won the 1977 International Softball Congress (ISC) world championship, and the El Capitan team from Hawthorne, Nev., the Division A Amateur Softball Association champs last year.

The tournament will get underway this evening at 5:45 at the China Lake Pony League baseball diamond, where the pre-game ceremony for a contest between the NWC Sidewinders and Nellis Air Force Base will include the opening pitch by Capt. F. H. M. Kinley, Vice Commander of the Naval Weapons Center.

Scheduled to begin at the same time on the baseball diamond at Schoeffel Field is a game between the Misfits of Bakersfield and a team from Point Mugu.

The tournament, which is sponsored by the NWC Special Services Division, includes six teams from Bakersfield, four from Nevada, three local entries, and one team each from Lancaster, Torrance, Santa Ana and Point Mugu.

The tourney is being staged as a benefit for the Indian Wells Valley Pony League, whose players, officials and supporters will be operating refreshments booths at the various softball fields where the teams will be playing.

Local entries in this event, in addition to the Navy Sidewinders (coached by Greg Bishop and Dave Scaff) are the Ridgecrest Raiders and Fisher Plastering squads. The Raiders are managed by Rich Clodt and coached by Lewis Radcliff, whose brother, Lowell, is the tournament director.

In addition to the Misfits, Bakersfield will be represented in the tournament by the following teams: King Neptune, Bakersfield Mariners, Sabre Refining Tigers, Ed Smith Welding and the K.C. Aggies.

Other Teams Listed
The two powerhouse nines from Nevada — Reno Toyota and El Capitan of Hawthorne — will be joined by Nellis AFB and the Las Vegas Jets. Other teams on the tourney entry list are Hires Market of Lancaster, the Torrance Warriors, Santa Ana and Point Mugu.

Six games are scheduled tonight. The pair

Cerro Coso basketball players, coach to be honored by dinner tonight at CPO Club

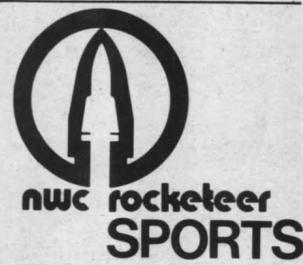
An award dinner honoring the coach and players of Cerro Coso Community College's 1977-78 season basketball team will be held tomorrow night, starting at 6:30, at the Chief Petty Officers' Club.

The Coyote cagers were the first athletic team representing this area's five-year-old community college to earn the right to compete in state championship play, after compiling a 20-6 regular season record that was good enough for second place in the Desert Athletic Conference.

Tickets for Saturday night's award dinner, which is being sponsored by the Fire Mountain Foundation, are priced at \$10 per person. They are on sale at the college business office, at Sports Etc. in the Sierra Vista shopping center, and at the Gift Mart, also in Ridgecrest.



ON THE ATTACK — Jason Cherry of the Spirits keeps his eye on the ball after teammate Stan Webster puts his toe to it in this bit of action during last Saturday's Youth Center Soccer League game at Davidove Field. Coming up too late to block the forward motion of the ball is Chris Johnson (at right) of the Apollos. Also out of the play is Brett Lloyd, of the Spirits (at left). The evenly played game between these two American Division teams ended in a 1-1 tie. —Photo by Ron Allen



Recreation Round-up

Air Force teams regain lead in '78 MDISL standings

The Air Force has regained the lead in the 1978 Mojave Desert Inter-service League competition, following last Saturday's bowling competition that was held at the 29 Palms Marine Corps Base.

Nellis AFB, which won the team bowling event with a total of 10,097 pins, and Edwards Air Force Base, which placed third by knocking over 9,797 pins, now have 27 points apiece in the MDISL competition.

The Naval Weapons Center is in third place in the MDISL standings, since the local keggers had to settle for a fourth in the bowling tourney. The six-man bowling team that represented NWC in the MDISL bowling event racked up just 9,740 pins.

The keggers from March AFB snapped up second place with 9,894 pins in the bowling tourney and are now fourth in the overall MDISL standings.

Tennis Tournament Planned

The first social tennis tournament of the spring season will be held on Saturday, April 22, from 7:30 a.m. to 5:30 p.m. by the China Lake Tennis Club on the NWC tennis courts.

The tourney, which is open to all club members, will be a modified round robin event.

The deadline for entries is next Wednesday, April 19. Those interested in participating may sign up at the NWC gym or contact Ruth O'Neil, the tourney director, by calling NWC ext. 2679.

There is an entry fee of \$1 plus a can of new optic yellow tennis balls per person.

Women's Night at Gym

Monday continues to be women's night at the NWC gym. Use of the sauna, steamroom, racketball courts, weight room

(Continued on Page 7)

Women's Golf Club begins memorial tournament play

The Betty Jo Bailey Memorial Tournament is underway, and the President's Trophy tourney is scheduled on Thursday, April 25, and Friday, April 26, by the China Lake Women's Golf Club (CLWGC).

The memorial event, which is held annually, will end in May with proceeds going to the Childrens Aid Society in honor of the late Mrs. Bailey, who was a CLWGC member.

Jay Mueller will be defending her championship title in the President's Trophy tournament.

May 3 is the starting date for the club's 1978 annual Invitational, and the deadline for entries is Wednesday, April 19. Entries should be mailed along with handicaps to Kay Someson, 221 Shangrila Circle, China Lake, CA 93555.

The entry fee is \$17, and the charge for carts is \$4. Checks must be made out to the China Lake Women's Golf Club, and persons desiring carts should make reservations for them early. The maximum allowable handicap is 36.

An invitational practice round will be played on Tuesday, May 2, followed by a no-host cocktail party and dinner beginning at 6:30 p.m. at the Commissioned Officers' Mess.

More information on the invitational may be obtained from Mrs. Someson by calling 446-4844.

Luncheon highlights 'Organization Day' activities planned by FWP Committee

Highlight of an "Organization Day" presented by the Federal Women's Program (FWP) Committee on Wednesday, April 19, will be a luncheon speech by Dr. M. Rogers.

Dr. Rogers will discuss "Women in Organizations" — the role of women, the hurdles they face in their rise to positions of management, the expanding role of women, and the impact that the changing role has on organizations.

Attendance at the 11:30 to 12:30 lunch at the Chief Petty Officers' Club will be by reservation only.

In order for as many NWC employees and other interested people as possible attend the Organization Day activities, the same speakers will present their talks both in the morning and the afternoon at the Community Center, and a 26-minute film entitled "Accomplished Women" will be shown four times during the day.

Jack Murray, of the NWC Personnel Department, will talk about "Promotion Strategies" at both 9 a.m. and 2 p.m. in the

Sidewinder Room. At the same time in Cactus Hall, Karen Altieri, Federal Women's Program Coordinator, will describe the program which she heads here.

At both 10 a.m. and 3 p.m. Terry Mitchell, of the Personnel and Organizational Development Division in the Personnel Department, will discuss "Long Term Training" in the Yucca Room of the Community Center.

Schedule for Showing Film

The film, "Accomplished Women," will be shown at 10 and 10:30 a.m., and 3 and 3:30 p.m. in the Joshua Room. The women in the film are Katherine Graham, Dr. Virginia Apgar, LaDonna Harris, Shirley Chisholm, Nikki Giovanni, and Helen Reddy. During the movie they discuss topics ranging from politics to personal feelings, all pointing to the new attitudes and image that women have about themselves.

Local organizations will have exhibit tables set up around the edges of Cactus Hall between 9 a.m. and 4 p.m.

Those who attend any part of the day's activities will be given EEO credit. NWC personnel wishing to attend the luncheon to hear Dr. Rogers must make reservations by Monday, April 17, by telephoning Eloise Burklund at NWC ext. 2634. The lunch menu offers a choice of either sirloin tips and noodles for \$2.50 or a chef's salad for \$2.

Enrollment open in Defense Procurement Management course

Enrollment applications are now being taken for a course entitled Defense Procurement Management for Technical Personnel.

This is a 40-hour course offered by the Naval Material Command that will be held from 8 a.m. to 4 p.m. during the week of May 8 to 12 in Room 107 of the Training Center.

Purpose of the course is to provide non-procurement personnel, who are associated with any of the various aspects of contracting, with an understanding of the statutory and procedural requirements that form the basis of the contracting function.

Instruction will be focused on the interrelationships between contracting personnel and other functions during the pre-award and post-award phases of the procurement process.

Particular emphasis will be given to such matters as soliciting sources, evaluating proposals, awarding contracts, and exercising proper post-award surveillance.

NWC employees interested in enrolling in this course must submit a training request and authorization form via proper department channels in time for it to reach Code 094 no later than April 25.

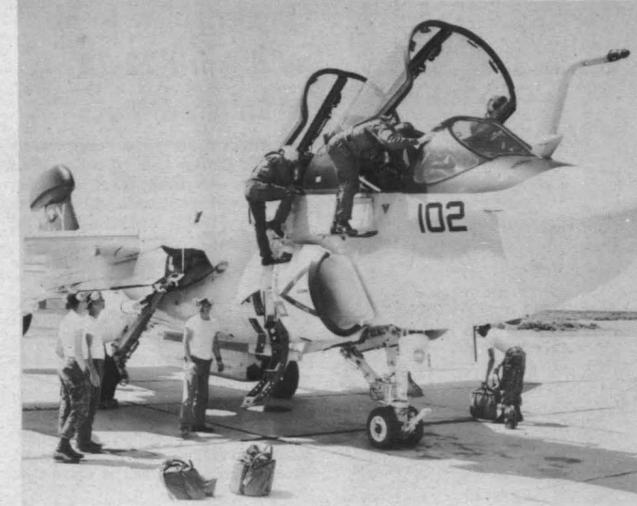
All occupants of vehicles required to have NWC pass

Personnel who have been issued a Naval Weapons Center pass are reminded that they are required to have them in their possession even when they are passengers in a vehicle entering the Center.

Although passengers may not always be required to display their pass, it must be available to show the gate guard if requested.

At random, unannounced times the guards at the main and south gates will be required to check the passes of all occupants of all vehicles entering the Center.

All Centerites and their dependents are reminded to be sure to carry their NWC pass with them in order to avoid the inconvenience of having to obtain a temporary pass in order to gain entry to the Center.



RETURN FROM MISSION—The pilot and crew (three electronic countermeasure officers) who have just returned from flying a mission during Operation Brave Shield—a Readiness Command training exercise held at the Army's Fort Irwin military reservation—scramble to the ground after their aircraft has landed at the NWC airfield. Ground crew members stand by to refuel the aircraft, a Marine Corps EA6B Prowler from VMAQ2, homebased at the Whidbey Island Air Station.

Bluejacket . . .

(Continued from Page 1)

contributed to VX-5's receipt of four commendations from the Chief of Naval Personnel for a low percentage of "optical character reading" computer errors.

She is married to Aviation Metalsmith First Class Gary Bomberger, who was recently transferred from China Lake to P3 flight engineer's school at the Moffett Field Naval Air Station in Mountain View, Calif. YN2 Bomberger hopes to join her husband after he completes his training.

"The Navy is pretty good about keeping wives and husbands together," she said.

She graduated from Miami Central High in 1969 and worked as a secretary for the Florida State Office of Vocational Rehabilitation before enlisting in the Navy in June 1974. She signed up under the guaranteed school program and began recruit training the following December.

Community Service

YN2 Bomberger is also co-leader of a local group of special education students. At present, the group is composed of five girls, and she assists in teaching them arts and crafts and taking them on outings and field trips.

She was also cited in her recommendation for the award for her off-duty work in this community service, which she helped to organize.

The last time a VX-5 bluejacket was singled out for the Center's top honors was last September. The squadron names the NWC Bluejacket of the Month for the last month of each quarter. The rest of the time, the award is given to the most outstanding person in paygrade E-6 and below serving NWC and all other tenant activities.

For winning the Bluejacket of the Month award, YN2 Bomberger will receive a weekend trip for two to Bakersfield under the sponsorship of Hugh Bartenstein, owner of Bart Electric. Besides having her room and meals paid for while there, she will also receive the loan of a new Ford from Desert Motors in Ridgecrest for the round trip.

Talk slated on subject of Center safety policy

A talk on the subject of the safety policy of the Naval Weapons Center and the individual supervisor's responsibility in regard to it will be presented during a luncheon meeting which will begin at 11:30 a.m. on Tuesday at the Enlisted Mess.

The occasion is a meeting of the China Lake Chapter of the National Association of Supervisors, and the speaker will be Al Wiruth, head of Industrial and Range Operations in the Safety Division of the NWC Safety and Security Department.

All NWC supervisors and other interested persons are invited to attend.



PREPARING FOR NEXT FLIGHT—Maj. Lloyd Burge removes the engine exhaust covers on one of the Army's RU21 reconnaissance aircraft that was flown here from Fort Bliss, Texas, to participate in Operation Brave Shield. Maj. Burge is in charge of the more than 50 personnel from the Army's 156th Security Agency Aviation Co. who were sent here to participate in this joint service training exercise. —Photos by Ron Allen

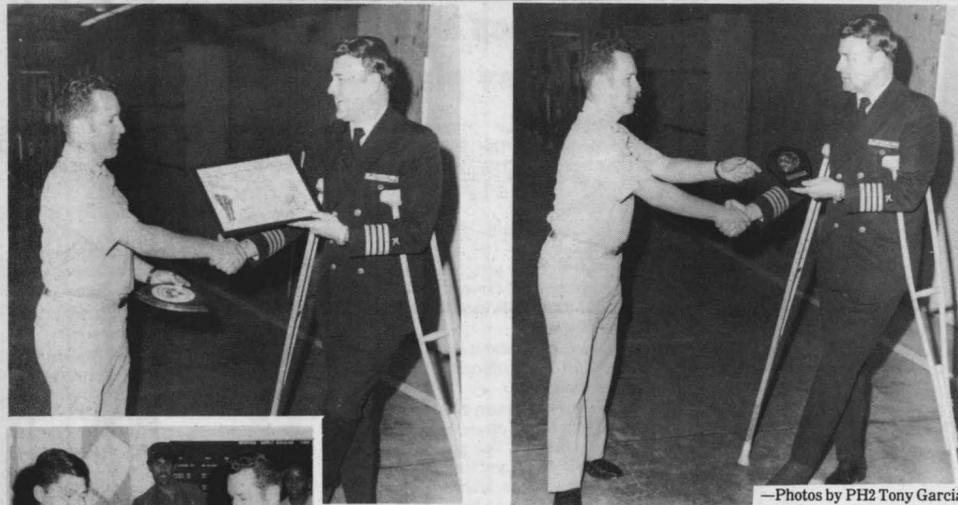
Missions flown from here by Army, Marine units engaged in war games

Two aircraft units specializing in electronic counter measures—one from the Marine Corps and the other from the Army—have been operating this week from the Naval Weapons Center airfield as participants in a joint service training exercise at the Army's Fort Irwin military reservation located east of Bartstow.

Here from Whidbey Island Air Station, Oak Harbor, Wash., have been 52 members of Detachment A of Marine Tactical Electronic Warfare Squadron 2 (VMAQ2) and 55 personnel of the Army's 156th Army Security Agency Aviation Co. from Fort Bliss, near El Paso, Tex.

The members of these two aircraft units are just a fraction of the total number of military personnel who are involved in Operation Brave Shield—a Readiness Command training exercise.

Principal ground units are some 7,000 members of the Army's 7th Infantry Division from Fort Ord, near Monterey, Calif., and another large group composed of Army men from the 9th Infantry Division at Fort Lewis, Wash., as well as some Army Reserve units.



—Photos by PH2 Tony Garcia

RETIREMENT CEREMONY — Master Chief Aviation Storekeeper Frank Lockwood, head of the Aviation Supply Division, was honored for his more than 25 years of Naval service last Friday, April 7, on the "eve" of his retirement. He departs today on 60 days terminal leave before his official June 1st retirement date. In the photo upper left, Capt. J. D. Killoran, NWC Director of Supply, presents AKCM Lockwood with a Naval Supply Corps plaque and a Sacred Order of Dust Devils certificate. At upper right, Chief Lockwood is receiving a Naval Weapons Center plaque, and in the lower photograph, Aviation Storekeeper First Class Mel Ramos hands Chief Lockwood a gift of a desk pen set that was presented on behalf of Supply Department personnel. AKCM Lockwood plans to go to work for Grumman Aerospace in San Diego, where he will "drop the hook" along with his wife, Audrey; son, Robert, 17; and 14-year-old daughter Tammy. Capt. Killoran (shown on crutches) is recovering from an injury to his leg.

Upward Mobility Program register re-opened

The Naval Weapons Center's Upward Mobility Program register was re-opened today and will remain open until Friday, April 28. From the list of those who who apply at this time, individuals will be chosen to fill Upward Mobility positions during the next 12 months.

Applications will be accepted from current NWC employees and others who have competitive status, and can be made by calling NWC ext. 2069 during regular working hours for the next two weeks.

Those currently on the Center's Upward Mobility Program register must re-apply at this time, as well as others who are interested in having their names added to this register.

Those eligible to apply for Upward Mobility Program positions which are established or become vacant are employees in grades GS-1 through GS-9 and their trades/crafts equivalent (WG-1 through WG-9).

Job relevant criteria on which applicants will be evaluated can be found in the notice about the Upward Mobility Program register that is published in the "Promotional Opportunities" column.

Ratings for Upward Mobility Program positions will be based on supervisory appraisals, completed information questionnaires, an Assessment Center interview and exercises, and job element crediting plans.

An orientation session for applicants will be scheduled during the first week in May during which the rating plan, the Assessment Center evaluation process, and the information questionnaire will be discussed. Applicants will be provided an information questionnaire at the orientation session. Those who need assistance in completing it may contact the Equal Employment Opportunity Office by calling NWC ext. 2348.

The Assessment Center evaluation will require that Upward Mobility Program **CPO Club books band**

The Chief Petty Officers' Club once again invites patrons to enjoy the best country music west of Las Vegas as performed by the popular "Sounds of Country" tomorrow night from 8:30 p.m. to 12:30 a.m.

In addition to the scheduled entertainment, the CPO Club will serve a dinner of prime rib or Icelandic cod from 6 to 9 p.m. tomorrow.

applicants be available for two consecutive work days between June 12 and 30. The schedule for the evaluation of individual applicants will be established after the completed information questionnaires have been returned.

Applicants will be granted excused time without charge to leave while they are participating in the Assessment Center evaluation. Failure to return the completed

questionnaire in the specified time period or failure to participate in the Assessment Center evaluation process will result in an applicant being dropped from consideration.

Those selected for Upward Mobility will normally be reassigned to the trainee position. Upon successful completion of the training program, employees will be either assigned or promoted to the target position.

CONSERVE ENERGY

ENERGY "HOT TIP" — Microwave ovens represent a large initial capital investment, but where they are used conscientiously for all meal preparation, they will reduce cooking electric power consumption by 75 percent and save the average homeowner up to \$50 per year in energy cost. Call the Energy Answer Man at NWC ext. 3741 for solutions to your household energy problems.



STANDARDS OF CONDUCT OUTLINED—Capt. Nicholas Sabalos (center), Staff Judge Advocate for the Chief of Naval Material, was here Monday to deliver a talk on "Standards of Conduct" for both civilian and military personnel. Prior to the first of two such presentations, he is shown flanked by Cdr. M. J. Cowell (at left), NWC Staff Judge Advocate, and L. R. Blackwood, NWC Counsel. Capt. Sabalos advised his listeners that a Confidential Statement of Employment and Financial Interests (DD Form 1555) must be filed by civilian personnel in the grade of GS-13 and above and military personnel with the rank of lieutenant colonel or commander (O-5) and above if their duties entail the following: the exercise of judgement in making a government decision or in taking government action in regard to administering or monitoring grants or subsidies; executing or approving the award of contracts; audits of non-Federal enterprises and similar activities.

Flower show to be held April 22-23 at Enlisted Mess

A standard flower show, co-sponsored by the Oasis Garden Club of Indian Wells Valley, the Desert Planters of Ridgecrest and the Maturango Museum, will be held on Saturday and Sunday, April 22 and 23, at the Enlisted Mess.

Participation by the general public in the flower show is welcome, and there will be numerous categories for both fresh flowers and dried arrangements.

Detailed information on the rules and regulations for this event can be found in leaflets that are available at the Community Center and Credit Union Building on the Naval Weapons Center, or in Ridgecrest at the Chamber of Commerce office, Kern County library, Indian Wells Valley County Water District office, and at Cerro Coso Community College.

The horticulture division includes sections for roses, iris, bulbs, corns and tubers. Cut specimens of annual and perennial flowers, home grown vegetables, fruits and herbs, foliage plants, vines, flowering trees and shrubs, container-grown and hanging plants also are included in the horticulture division, as are collections, terrariums and dish gardens.

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.

There is an entry fee of 15 cents per exhibit (or a maximum of \$2 per individual) which is payable at the time completed entry forms (which are due no later than April 19) are received.

Because of space limitations for the fresh flower displays and dried arrangements, early registration is advised, and can be arranged by contacting Nelda Darling, the entries chairman, at 624 Allen St., Ridgecrest, or calling her at 375-2135.

Opening of the two-day standard flower show will be highlighted by a no-host champagne brunch on Saturday, April 22, from 11:30 a.m. to 1 p.m. at the Enlisted Mess. Tickets for the brunch, priced at \$4.50 per person, can be reserved by calling Alice Hirsch (phone 375-2107) or Jill Feickert (phone 375-8691). The deadline for reservations is April 19.

Class slated as part of Cinco de Mayo observance

Supervisors (and others who are interested) are invited to start their celebration of Cinco de Mayo by attending either session of a class to be conducted by Lou Perez of the Civil Service Commission's San Francisco Regional Training Office.

The class will be taught at 12:30 p.m. on Thursday, May 4, and again at 7:30 a.m. on Friday, May 5, and will give 4 hours of EEO credit for those attending either session.

Subject of the course will be an orientation to the Hispanic Employment Program (formerly called the Spanish Speaking Program).

"We're particularly pleased," notes Joe Lopez, Jr., NWC's Hispanic Employment Program Coordinator, "that Mr. Perez was able to come at such an appropriate time to conduct these classes."

Lopez adds that he hopes that many Centerites will join in the local celebration of Cinco de Mayo. Events are planned throughout the area.

Those wishing to sign up for either session of the class must submit a training request form through their department offices so that it will reach Code 094 by April 28.

Extra pay check in 1978

Most Federal employees will receive an extra pay check this year; 1978 has 27 pay periods, instead of the usual 26, for employees whose leave year began Jan. 1, 1978.

This also means an additional pay period for accrual of annual and sick leave, according to information received from the U.S. Civil Service Commission.

Happenings around NWC

Tonight is "50's Night" at the EM Club featuring the music of "Silverwolf," a 4-piece band from San Diego, which will be playing the top 40 hits of the 1950s for EM patrons from 9 to 1:30 a.m.

The Club will award prizes for the best 1950s costume and the best dancers among the couples participating in the '50's dances. There will be a service charge of \$1 per person for the evening's entertainment. A seafood plate dinner will be served from 6 to 8 at \$6.95 per person.

"Silverwolf" will also entertain at the EM Club tomorrow from 9 to 1:30 a.m. with favorite melodies from the 1940s. Admission charge will be 50 cents per person. Dinner is now served every Tuesday, Wednesday, Thursday, and Friday evening from 6 to 8 at the EM dining room.

Hillyer To Address IEEE

Robert M. Hillyer, NWC Technical Director, will address a luncheon meeting of the China Lake Section of the Institute of Electrical and Electronic Engineers (IEEE) Monday at the Commissioned Officers' Mess.

Hillyer will discuss the impact of today's environment on the future work of NWC scientists and engineers and in-house, hardware-oriented technical work at the Center.

He will also cover factors affecting changes in management strategies and recent environmental changes, as well as management philosophies and strategies.

The meeting is open to members and non-members. Reservations may be made and additional information obtained by calling

either Dave Brown on NWC ext. 2433 or Bill Webster on NWC ext. 3100. Reservations are required.

Films About Alaska Slated
A program featuring color film slides of a 10-week trip throughout Alaska has been scheduled at 7:30 p.m. Wednesday, April 19, in the Las Flores School auditorium by the China Lake Navy Flying Club.

The program, which is open to all interested persons, will be presented by Dick and Kay Johnson, who are residents of the Kennedy Meadows area but commute by air on weekdays to the Inyokern airport in order to get to work. He is an NWC employee, while she is a school teacher at Inyokern.

The Johnsons, who own a Cessna 170, loaded it up with supplies and camping gear for their trip to Alaska, which took them from the "panhandle" to Point Barrow—primarily following back-country routes.

Library Hours To Change

Effective Sunday, April 23, and until further notice, the Naval Weapons Center Library will be open from 1 to 9 p.m., Tuesday through Friday, and from noon until 6 p.m. on Saturday. The library will be closed on Sunday and Monday.

The old operating hours are 1 to 9 p.m., Monday through Friday, and noon to 6 p.m. on Saturday and Sunday.

The change means that the library will be open 46 instead of 52 hours per week and is necessary because of a personnel reduction.

Statistics show that there are fewer patrons at the library on Sunday and Monday, which is the reason it will be closed on these days.



LOW ENERGY STRUCTURE TEST CELL—The mass of gunite-covered earth piled against the revetment in which the LES test cell is being built appears to dwarf the two men standing on its roof near the louvers, which open above a glass-covered, enclosed central area called "atrium." —Photo by Alan Fry

Low Energy Structures Program . . .

(Continued from Page 1)

can be charged off to conduction through the ceiling, walls and floor — ergo, the high thermal mass buffering concept.

Wirtz and Smith have been measuring the temperature difference of the ground near the LES test cell to a depth of nine feet. These measurements reveal that, during July and August, the surface temperature can reach 140 degrees F.

Yet, at a depth of one foot, the temperature is a steady 93 degrees F., and at nine feet, a nearly steady 75 degrees F. These measurements also show that the highest sub-surface temperature at nine feet occurs in October, three months later than it does at the surface.

The low energy test cell is not being built in a hole in the ground, but rather in an unused explosive ordnance storage revetment. The thickness of the revetment's concrete walls and earth piled up on its sides and covered with gunite (a thick layer of air-blown cement) are being used to simulate conditions that would be experienced if the structure's walls were below the earth's surface.

Completion of the structure is still a few months off, but measurements already show that the inside temperature is varying only two or three degrees with no heat during a 24-hour period; exterior temperature, however, has varied by as much as 40 degrees.

Though windows are the major areas of heat loss in a structure, they do fulfill a very

College lecturer to speak on individual search for identity

Dr. Sam Keen, author, theologian and psychologist, will speak on "Psychology Tomorrow" in the Cerro Coso Community College lecture hall next Thursday, April 20, at 7:30 p.m.

The lecture is open to the public and there is no charge for admission.

The subject of Keen's lecture will be the individual search for identity in the 21st Century. The presentation is in the form of a personal odyssey which is described as a "sometimes painful," informative adventure.

A Fellow at the Western Behavioral Sciences Institute and Center for Study of Persons, Keen is recognized for his study of the person.

He was formerly professor of philosophy and Christian faith at Louisville Presbyterian Theological Seminary and served on the staff at Esalen. He was also director of the Theological Residence Program there.

Keen is a consulting editor of Psychology Today. His newest book is "Beginnings Without End." Other books he has published include "To a Dancing God," and "Apology for Wonder."

human need. According to Wirtz, "We can't lose contact with the fact that there is a sun and a sky out there."

However, he feels that windows should be minimized to be more functional than ornamental.

"In a residence, for example, we need a window in front to see who's coming to the door and a window in the rear to view the backyard."

Most of the scenic value of windows can be duplicated by planting garden settings, complete with waterfalls, in the atrium, and that is exactly what Wirtz plans to do with the completed LES test cell. The waterfall will also be necessary for interior humidity studies.

Energy Reduction Goal

The Center's LES Program is funded by the Civil Engineering Laboratory at Port Hueneeme and is tied in with the goal of reducing the 1985 energy consumption in Navy buildings by 20 percent over the 1975 figures.

All new structures must be designed to consume 45 percent less energy than their pre-1975 counterparts under the program to meet the requirements of Presidential Executive Order 12003.

Plans are already underway for converting an existing above-the-ground building on the Center into a low energy structure, based on data derived from the LES test cell.

Ultimately, Wirtz said, plans call for constructing a new office building for the Ordnance Systems Department which will use not only the louver-atrium and mass buffering concepts but other compatible energy saving ideas as well to cut energy consumption more than 50 percent in comparison with similar buildings constructed before 1975.



CHECKING TEMPERATURE—A thermograph inside the LES test cell keeps a running tab on temperature inside the building. Fulmer (left) and Wirtz check tracings on the instrument—a task performed regularly by persons working on the LES project.

Promotional Opportunities . . .

(Continued from Page 2)

on limited tasks; assists division personnel by obtaining raw materials, supplies, and tools for shop use. **Job Relevant Criteria:** Reliability and dependability; shop aptitude and interest; ability to follow directions in shop; dexterity and safety. Ability to work as a member of a team. Supplemental is required and may be picked up in 204 of the Personnel Building. **Promotion Potential:** Equipment Mechanic WG-5352-10.

Equipment Mechanic, WG-5352-10, JD No. 485N, Code 34421 — Position is located in the Engineering Department, Engineering Prototype Division, Resource Management Branch, Code 34421. Primary duties of this position are the installation, adjustment, overhaul, repair, and modification of machine tools, mechanical and electromechanical equipment, and laboratory apparatus in machine, sheetmetal, welding, plastics, optics, gyro, heat treat, and plating shops and in chemistry-metallurgical, and environmental testing labs throughout the Naval Weapons Center. **Job Relevant Criteria:** Ability to do the work of the position without more than normal supervision. Technical practices, trade theory, and troubleshooting. Ability to use precision measuring instruments and test equipment. Ability to use machine tools, hand and powered tools, and related equipment. Ability to read and interpret blueprints, instructions, and specifications. Supplemental is required and may be picked up in Rm. 204 of the Personnel Bldg.

File application for the above with Janet Thomas, Bldg. 34, Rm. 204, Ph. 2925.

Illustrator, GS-109-5, PD No. 782817N, Code 2341 — This position is located in the Illustration and Design Branch, Graphic Arts Division of the Technical Information Department. Major duties include creating drawings and other related art work from rough layouts and assisting illustrators and Visual Information Specialists in the development of illustrations and designs. **Job Relevant Criteria:** Demonstrated artistic ability; ability to meet deadlines; and ability to establish harmonious working relationships. **Potential:** GS-7.

Clerk (Typing), GS-301-5, PD No. 772858N, Code 231 — This position is located in the Publications Division, Technical Information Department. The incumbent maintains division head's calendar; sets up conferences and performs necessary work prior to them. Serves as receptionist to telephone and personal callers, using judgment concerning referrals; reviews incoming correspondence for content and routes to appropriate personnel, retaining that to be handled personally; prepares requests for personnel actions; maintains division files; makes travel arrangements; serves as custody control point for Codes 23 and 231, and receives, processes and returns or retains all classified material. Maintains records on division equipment and conducts periodic surveys, orders supplies, and prepares announcement of publications biweekly. **Job Relevant Criteria:** Demonstrated ability to deal tactfully but effectively with all levels of NWC employees; ability to work on many complex tasks concurrently; demonstrated ability to perform a variety of secretarial/clerical functions; and knowledge of security procedures concerning classified documents.

Payroll Clerk, GS-544-3/4, PD No. 7117016N, Code 0864, 2 vacancies — This position is located in the Payroll Branch, Office of Finance and Management. Incumbent performs routine research of payroll records to correct leave data; prepares changes to employee's earnings, deductions and leave factors; prepares reports to leave availability, leave transfers, and earnings statements. **Job Relevant Criteria:** Knowledge of payroll/leave regs; working knowledge of data processing; ability to work with figures; and ability to work under pressure. Status eligible/accepted. **Potential:** GS-5. Previous applicants need not re-apply.

File applications for the above with Tina Rockdale, Rm. 204, Bldg. 34, Ph. 2676.

Purchasing Agent GS-1105-5/4, PD No. 7625026N, Code 2522 — This position is located in the Purchase Branch, Procurement Division, Supply Department. Incumbent is responsible for a range of purchases from office and maintenance supplies to intricate electronics equipment. Quotations or offers are generally solicited by telephone; incumbent is responsible for assuring that the contract file contains adequate documentation to justify purchase actions. **Job Relevant Criteria:** Knowledge of small purchase methods and the basic techniques of formal contracting; ability to deal with a wide variety of persons by establishing and maintaining good relationships; ability to work without close supervision. **Promotion Potential:** GS-4.

File applications for the above with Ginger Hamaty, Bldg. 34, Rm. 212, Ph. 2371.

Clerk-Typist, GS-322-4, PD No. 7000077N, Code 00 (intermittent) — (All status eligibles are accepted) This position is intermittent within the Office of the Commander, including Codes 00, 01, 02, 03, 003 to provide clerical support as needed. The incumbent will perform such duties as typing various kinds of correspondence; answering telephones; opening, screening and routing mail; maintaining files and greeting visitors. **Job Relevant Criteria:** Ability to type efficiently and accurately; ability to deal tactfully with people; knowledge of Center organization and policies.

File applications for the above with Cathy Rivera, Bldg. 34, Rm. 206, Ph. 2723.

Recreation Aid, PS-0189-03, PD No. 7455110, \$2.92 per hour, Special Services Division — This position is that of a lifeguard for the Recreation Branch. It is a part time position throughout the summer months. Incumbent monitors activities and inspects facility for cleanliness; may also assist a water safety instructor in teaching. **Job Relevant Criteria:** Knowledge of water safety instruction and lifesaving techniques; must have Senior Lifesaving Certificate.

File applications for the above with Cheryl Hartley, Bldg. 21, Ph. NWC ext. 3387.

UPWARD MOBILITY PROGRAM REGISTER:
May be utilized to fill administrative/technical/trades and craft positions which are established or become vacant in grades GS-1 through GS-9 and their trades/craft equivalent (WG-1 through WG-9) with the following exceptions: positions with promotion potential limited to GS-4 and below or WG-4 and below and professional positions requiring a positive educational requirement. Applications will be accepted from current NWC and other Navy employees who have competitive status (normally acquired by appointment through open competitive examination and completion of a probationary period). For the purposes of this register, employees who will have completed their probationary period by 1 August 1978 will be considered eligible to apply. There are no minimum experience requirements. **Job Relevant Criteria:** Ability to express oneself orally and in writing; ability to interpret and apply written instructions and procedures; initiative, mechanical ability, ability to analyze problems, ability to make decisions, ability to make judgements, ability to work with quantitative data, ability to work with others, leadership ability, ability to use basic tools and measuring devices, ability to work independently. Applicants will be rated on all of the above job relevant criteria. Selecting officials will select criteria relevant to their particular vacancy and lists of eligibles will be established based on ratings received in those selected criteria.

Employees may apply by calling NWC ext. 2069 not later than April 28, 1978.