

CPO Wives elect officers, prepare for busy year in '80

Officers of the Chief Petty Officers' Wives Club were so successful this past year in heading activities for that organization that nearly the whole slate was re-elected for another year. Sole exception was secretary Sue Gillen, who did not choose to run because of her husband's planned retirement.

Selected to head the group were Karen Fielder, president; Patti Henderson, vice president; Sharleen Carrell, secretary; and Tinkie Cook, treasurer.

Mistress of ceremonies for the installation dinner held at the CPO Club last week was Bonnie Tucker, who turned the floor over to Gladys Bauer to serve as installing officer. Mrs. Bauer held the offices of both president and vice president from 1969 to 1973.

The CPO Wives Club is active in both charitable and social affairs in the community. Wives of active duty and retired E-7, E-8, and E-9 personnel are welcome to attend the monthly meetings and join the group.

The organization regularly supports an American Indian child through contributions to the Christian Children's Fund. It also provides Thanksgiving and Christmas baskets for local families; groceries for the Christmas basket included not only food for one dinner but other food and small gifts for the children of the recipient family.

The CPO Wives have also provided emergency funds for families in time of need such as following a fire.

The primary fund raising activity is the annual Christmas bazaar, and much of the year is spent on making items for sale at this bazaar. Bazaar chairman for the group is Clara Smith, who is being assisted by Esther Rodriguez and Judy Ledoux.

Other committee chairmen are Bonnie Tucker, membership; Yolanda Nolton, sunshine; Diane Carnes, telephone; Lynette Hose, publicity; Janet Allen, hospitality; and Rosemary Brant, chaplain.

ESB barber shop now has new phone number

The barber shop, run under the auspices of the Employee Services Board and located in Bennington Plaza on Richmond Rd., now has a new telephone number, 446-9805.

Patrons who wish to make an appointment during the normal business hours of 8:30 a.m. to 5 p.m. Mondays through Fridays may phone in advance so that they will not have to wait in line.

The barber shop services are available to anyone who either works or lives on the Center.

MOVIES

Regular starting time—7 p.m.

<p>FRIDAY, MONDAY FEB. 8, 11</p> <p>"LATE GREAT PLANET EARTH"</p> <p>Starring</p> <p>Orson Wells and Howard Whalen</p> <p>(Science fiction, rated PG, 86 min.)</p> <p>SATURDAY FEB. 9</p> <p>"BATTLE STAR GALACTICA"</p> <p>Starring</p> <p>Richard Hatch and Lorne Green</p> <p>(Science fiction, rated PG, 125 min.)</p> <p>SUNDAY FEB. 10</p> <p>"101 DALMATIANS"</p> <p>Animated</p> <p>(Action comedy, rated G, 109 min.)</p> <p>WEDNESDAY FEB. 13</p> <p>"MEATBALLS"</p> <p>Starring</p> <p>Bill Murray and Harvey Atkins</p> <p>(Comedy, rated PG, 94 min.)</p>	<p>ALL AGES ADMITTED General Audiences</p> <p>PG: ALL AGES ADMITTED Parental Guidance Suggested</p> <p>R: RESTRICTED Under 17 requires accompanying Parent or Adult Guardian</p>
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TO PERFORM AT COM — Three members of the Alpha-Omega Players (l-r.) Vicki Hughes, John Payne, and Jean Kay Sifford are included in the cast of "The Marriage-Go-Round," a dinner-theatre presentation scheduled next Thursday night, Feb. 14, at the Commissioned Officers' Mess. Showtime at 8 p.m. will follow dinner to be served from 5 to 7:30 p.m. on the evening of Valentine's Day.

Center Library focuses attention on contributions of Black Americans

By Elizabeth Wilkie,
Head Librarian

During the month of February the Center Library joins other educational facilities across the nation in directing America's attention to the significant contributions made by Black Americans to the history of the United States.

A move in this direction was begun as long ago as 1926 when Dr. Carter G. Woodson launched a program for the study of the Black American. His purpose was to eliminate misconceptions, harmful

Anniversary ball for CEC, Seabees to be held March 1

Preparations are in full swing for a gala anniversary ball that will be held on Saturday, March 1, at the Ridgecrest Elks Lodge to mark the 38th birthday of the founding of the Seabees and the 113th anniversary of the Navy Civil Engineering Corps (CEC).

The annual CEC/Seabee anniversary ball will begin with a social hour at 6:30 p.m., and be followed by a prime rib dinner. After a program that will be highlighted by announcement of the selection of the Seabee of the Year, dancing to the music of Joe Jones and his country-western band will round out the evening.

Ltjg. Pat Nassaux, Facilities Planning Officer in the NWC Public Works Department, is serving as chairman of this event. Tickets, priced at \$13 per person, can be ordered by calling Ltjg. Nassaux (Public Works 3411, ext. 225), or Cy Ebersberger, a member of China Lake Detachment 0217 of Reserve Naval Construction Battalion 17, phone NWC ext. 3605.

Next Friday, Feb. 15, is the deadline to order tickets or reply to letters of invitation that were sent out.

Det. 0217, local Seabee Reserve unit, invites all Seabees (active duty or retired) to join them at this annual celebration, which also is open to anyone who has been affiliated with the CEC.

Capt. John Ives, NWC Public Works Officer, will preside over the evening's activities as "King Bee," and Harry Parade will be the master of ceremonies. The oldest and youngest Seabees present will be introduced and will participate in cutting a large birthday cake that will be baked for this occasion.

stereotypes, legend and folklore about those whose ancestors came from Africa.

Today there is a great interest in books covering various aspects of the history of the Black American, and the Center Library's shelves are a rich source of information and comment dealing with the history, achievements and progress of Black Americans.

Most Americans recognize the names of Pearl Bailey, Willie Mays, Sammy Davis, Jr., Shirley Chisholm and Ralph Bunche, but few know about Dorie Miller, the first U.S. hero of World War II.

Information about Miller and other Black Americans who have won the Congressional Medal of Honor can be found in Irwin H. Lee's "Negro Medal of Honor Men."

Another author, Phillip T. Drotning, writes in the book "Black Heroes in Our Nation's History" that "it would be impossible to estimate the number of people who owe their lives to the pioneering work in the establishment of a blood bank that was done by Dr. Charles R. Drew."

The first Black American to enter Congress was a minister from Mississippi, the Rev. Hiram R. Revels, who was admitted to the Senate on Feb. 25, 1870. Maurine Christopher's "America's Black Congressmen" tells the stories of the 34 Black Americans who served in Congress from 1870 to 1970.

Many Authors Represented

Black American authors are well represented in the Center Library's collection. James Baldwin, Ralph Ellison, Richard Wright and Frank Yerby are a few of the novelists whose works are available. There is also poetry by such well known authors as Arna Bontemps, Gwendolyn Brooks, Paul Laurence Dunbar and Langston Hughes.

"Ebony" is a high quality monthly magazine that gives a well-rounded view of Black American contemporary life, and "Negro History Bulletin" dedicates itself to providing little known facts in the history of Black Americans. Both may be found in the magazine racks of the Center Library's lounge area.

The Center Library's record collection includes a section devoted to musical expression unique to those of African heritage.

This month, the Center Library has placed all of the books pertaining to Black American art, history, and literature in one convenient location.



Commissioned Officers' Mess

A Sunday afternoon buffet will be inaugurated on Feb. 10 at the Commissioned Officers' Mess.

Service will be open from noon to 5 p.m. at a cost of \$5.95 for adults and \$3.25 for children under 12 years of age.

The buffet will include a salad bar featuring a variety of salads and condiments, as well as hot food line where patrons may select from seafood, poultry or meat dishes, two kinds of potatoes, vegetables, and assorted rolls. Champagne (at no extra cost) will be available for adults.

The main dining room of the COM will be closed tomorrow night for a private party, but regular dinner and bar service will be provided in the casual bar.

Coming up on Tuesday is Indian Night. Dinner special of the evening will be beef curry served from 5 to 9 o'clock.

On Valentine's Day (Feb. 14), a gala dinner-theatre program is planned at the COM. The Alpha-Omega Players, a professional traveling group from Texas, will be at the club to present "The Marriage-Go-Round."

Showtime at 8 p.m. will be preceded by dinner from 5 to 7:30. The dining room special that evening will be grand marnier Cornish game hen.

Price of the dinner-theatre show is \$6.75 per person, and reservations (which are a must) can be made by calling 446-2549.

Chief Petty Officers Club

Once again the Chief Petty Officers' Club will feature a family get-together, buffet style.

Tomorrow evening starting at 6 o'clock and continuing until 8:30 the CPO dining staff will offer a large selection of hot foods (including a choice of three meat dishes) and a salad bar for selection by the entire family.

Price for the family buffet is \$6 for adults and \$3 for children under 12 years of age.

Auto Club-sponsored car care class set Feb. 21 at Burroughs

Reservations are now being taken for a class in car care, sponsored by the Automobile Club of Southern California, that will be held at the Burroughs High School lecture center on the evening of Feb. 21.

Classes such as this, which have proved highly popular in other areas, cover such things as instruction in the basic operation of automobile engines and normal maintenance requirements, as well as information on automotive transmissions, brakes, tires, and the purchase of parts and service. Also included will be tips on impending trouble and first aid for automobiles.

Those wishing to attend can make arrangements to do so by calling Gerra Thomas at the Ridgecrest office of the Automobile Club of Southern California (ph. 375-8426). Ms. Thomas can provide callers with information on the starting time of the meeting.

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1980—No. 1012

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nwc rocketeer

Department of Defense first: Navy woman at China Lake finishes test parachutist training



FINAL INSPECTION — A final check is made of equipment before the parachutists board the C-117 aircraft from which they'll step into space. At the far left PR3 Clifford Mathews checks the reserve chute carried by PRCS Allen while PRAA Arsenault awaits her turn. PR1 Marshall Hager (at right) looks at PR3 Mooney's pack under the watchful gaze of PR2 Harvey Hartman.

30 Centerites share in group special award for vital contributions to TRI-FAST Program

More than 30 Naval Weapons Center employees were the recent recipients of a group special service award totalling \$9,200 that was presented in recognition of their contributions to the TRI-FAST Advanced Prototyping Program. For the first time, the feasibility of using active seekers as guidance elements for small diameter missiles was demonstrated.

The primary objective of TRI-FAST (Tri-Service Fast Acquisition, Search and Track) was to evaluate a small-diameter, solid-state, active radar seeker, developed under contract with Motorola, Inc., for possible application to air defense, point defense, and air-to-air missiles. Joint sponsors of this Tri-service Prototyping Program were the Naval Sea Systems Command (NAVSEA), Naval Air Systems Command (NAVAIR), the Air Force Armament Test Laboratory, Eglin AFB, Valparaiso, Fla.; and the Army Missile Command (MICOM), Redstone Arsenal, Huntsville, Ala.

NWC's Responsibilities

The Naval Weapons Center, as the Technical Direction Agent for the program, had the responsibility for the following:

- (1) Technical interface with the contractor for purposes of insuring that the design met performance specifications.
- (2) Definition, coordination, and conduct of testing through laboratory, flyover and captive flight tests.
- (3) Evaluation, interpretation and reporting of test results.
- (4) Design of various math models, simulations and hardware to aid in evaluations.

In addition, key personnel involved in this project from NWC consulted on program

problems and served as members of the Tri-service Committee that was responsible for the overall direction of TRI-FAST.

"The size of the effort (\$14.7 million total program cost), the emerging state of the art, and the number of participating organizations, required significant managerial and technical expertise at NWC," it was noted in a letter of commendation sent to the Center's TRI-FAST team by Rear Admiral C. J. Rorie, Deputy Commander for Combat Systems in the Naval Sea Systems Command.

Five Seekers Built

Five seekers were built and packaged for test and evaluation (three 5-in. diameter seekers and two 8-in. diameter seekers), as well as the ancillary equipment required for test and evaluation. The latter included four target generators and a control panel for each of the five seekers.

The test program was established to obtain data for seeker evaluation through laboratory, flyover, captive flight, and hardware-in-the-loop simulation testing.

Laboratory testing was done at NWC in an anechoic chamber to establish seeker baseline performance characteristics in a closely controlled environment.

Flyover testing was performed to evaluate surface-to-air seeker function against targets in both land and sea clutter environments. To obtain the necessary data, a variety of locations were used as test sites — such as G-2 range at NWC and a shore site overlooking the ocean at the Pacific Missile Test Center (PMTTC), Point Mugu, Calif. Twenty-five test operations were completed against A-4 and T-38 aircraft, helicopters, and P-3 aircraft targets. Captive flight testing was performed to

When PR3 Anne Michelle Mooney drifted to earth at NWC's parachute range drop zone on Jan. 31, she qualified as the first military woman test parachutist in the Department of Defense.

PR3 Mooney completed her jump training syllabus with a 20-sec. unstable free fall from an altitude of 7,000 ft.

In her qualifying jump, PR3 Mooney was also taking part in a biomedical research project. Her heart, respiration, and eye movements were monitored and telemetered to earth, as was the opening force of her parachute.

Basic training to become a test parachutist requires a minimum of 18 jumps in a specified order. The course includes a drop with each of various types of parachutes, a change of position of the ripcord, varying delays before the ripcord is pulled, high and low altitude parachute openings, water jumps and jumps made carrying oxygen equipment and rigid seat survival kit that includes a life-raft and other survival items.

PR3 Mooney was able to complete the basic jump sequence in 22 drops. Accompanying her earthward as her instructor and observer was PR1 Marshall Hager.

The observer makes the jump with the student, but uses a highly maneuverable parachute to enable him to move freely in the air so that he can check the student's canopy for damage and can provide advice and guidance during the descent.

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PINNED — PR3 Mooney receives her wings as the DoD's first woman test parachutist from Capt. W. B. Haff, NWC Commander, who was waiting in the parachute drop zone.

PRCS Ron Allen, who serves as primary instructor and jumpmaster for the training, says that while the observer can't physically aid a student, the advice given can be life-saving and the company of another person during training descents is psychologically reassuring. For that reason, instructors accompany students on all jumps.

PR3 Mooney and PRAA Lisa Arsenault, who will complete her training to qualify as a test parachutist within the month, volunteered to become test parachutists to

(Continued on Page 3)



LONG WAY DOWN — That first step out of the hatch of an aircraft is a very long one, as PR3 Mooney discovers on one of her early training jumps. Waiting for her, seemingly suspended in air, is a jump instructor (barely visible), who will stay within voice range of the student parachutist to provide advice as well as psychological aid on the way down. The instructor usually uses a highly-maneuverable para-commander chute so that he can circle to observe that the student's chute is properly opened and keep a close watch during the descent.



MEMENTO OF VISIT — George Swiggum (l.), who, as head of the Laboratory Planning and Facilities Division (NAVMAT 08L3), handles the military construction money for the Office of the Chief of Naval Material, receives an NWC plaque from Bob Hillyer, NWC Technical Director, as a memento of his visit to the Center. Swiggum visited NWC on invitation of Project 2000 for detailed discussions of the Project 2000 facilities plan, and to see existing facilities.

Joggers reminded: Be on lookout for motorized traffic

Some joggers appear to have the idea that they are superman or superwoman. They get into stride in their run and do not check closely enough before that stride takes them out into the intersection in front of a vehicle.

Several motorists, especially those using Richmond Road near King Street, have reported that joggers have caused them to make an emergency skidding stop to avoid striking the jogger.

Joggers should be aware that California law, while it outlines the pedestrians' rights, also outlines their responsibilities. The California Vehicle Code in Section 21950 section (b) states "The provisions of this section (Pedestrians' Rights and Duties) shall not relieve a pedestrian from the duty of using due care for his safety. No pedestrian shall suddenly leave a curb or other place of safety and walk or run into the path of a vehicle which is so close as to constitute an immediate hazard."

This, of course, does not relieve a driver of a vehicle from the duty of exercising due care for the safety of any pedestrian at an intersection but, as one driver put it, "I keep looking for them but when they jump out in front of me, it's scary and we need to do something."

Joggers are reminded to check thoroughly for vehicle traffic before loping out into the street. Two or three seconds of running in place, or even breaking stride in order to check for cars, trucks or other vehicles, won't be nearly as detrimental to one's physical fitness program as lying in bed for a period of time because of accident-caused injuries.

AFGE to meet Monday

The American Federation of Government Employees, Local 1781, will hold its regular monthly meeting on Monday evening at 7 at 65-B Halsey Ave.

The Rocketeer

Official Weekly Publication
Naval Weapons Center
China Lake, California
Captain W. B. Haff
NWC Commander
R. M. Hillyer
Technical Director
Bernard F. Connolly

Acting Head
Technical Information Department
Don R. Yockey
Editor
Mickey Strang
Associate Editor
Beverly Becksvort
Editorial Assistant
Ron Allen
Staff Photographer

Promotional opportunities

Unless otherwise specified in the ad, applications for positions listed in this column will be accepted from current NWC employees and should be filed with the person named in the ad. All others desiring employment with the Naval Weapons Center may contact the Employment/Wage and Classification Division, Code 092, Ext. 2069. Ads will run for one week and will close at 4:30 p.m. on the Friday following their appearance in this column, unless a later date is specified in the ad. Employees whose work history has not been brought up to date within the last six months are encouraged to file a Form 171 or 172 in their personnel jacket. Information concerning the Merit Promotion Program and the evaluation methods used in these promotional opportunities may be obtained from your Personnel Management Advisor (Code 096 or 097). Advertising positions in the Promotional Opportunities column does not preclude the use of alternate recruiting sources in filling these positions. As part of the rating process, a supervisory appraisal will be sent to the current supervisor and the most recent previous supervisor of those applicants rated as basically qualified. The Naval Weapons Center is an equal opportunity employer and selection shall be made without discrimination for any nonmerit reason. The minimum qualification requirements for all GS positions are defined in CSC Handbook X-118, while those for all WG, WL and WS positions are defined in CSC Handbook X-118C.

Legal Technician, GS-986-6, PD No. 800922N, Code 022 — This position is located in the Staff Judge Advocate's Office, Naval Weapons Center. The incumbent screens requests for legal assistance, when appropriate refers cases to the Staff Judge Advocate, and renders assistance to the balance. Assistance includes information and guidance on domestic registration and driver's licensing provisions; wills, marital settlement agreements, adoption papers, power of attorney, etc. Selectee must be or apply for and become a Notary Public. **Job Relevant Criteria:** Skill in oral and written communication, knowledge of relevant laws, regulations, and procedures; ability to locate relevant information; ability to type.

Secretary (Typing), GS-318-4, PD No. 800922N, Code 022 — This is a temporary (not to exceed 1 year) position in the Staff Judge Advocate Office, Naval Weapons Center. Incumbent distributes mail, receives and screens phone calls and visitors; maintains files; types correspondence and performs other secretarial duties. **Job Relevant Criteria:** Ability to deal effectively with all levels of personnel, knowledge of spelling, grammar, and punctuation, skill in typing.

Technical Publications Writer/Editor (PS&E), GS-1083-11, PD No. 745301A, Code 3412 — This is an intermittent position located in the Editing Branch, Publications Division, Technical Information Department. Incumbent gathers information, writes and/or edits manuscripts of technical and administrative reports, brochures, and articles. **Job Relevant Criteria:** Knowledge of physical science and engineering; knowledge of printing and publishing techniques; skill in interpersonal relations; knowledge of current technical developments at NWC.

File applications for the above with Linda Bego, Bldg. 34, Rm. 212, Ph. 2724.

Accounting Technician, GS-525-4, PD No. 790801E, Code 0842 — This position is located in the Cost Accounting Branch, Accounting and Disbursing Division of the Office of Finance and Management. The incumbent is a trainee performing tasks on a rotating basis with the major contracts, Government and Financial Inventory Control, and Commercial Orders Sections. Incumbent codes and processes purchase documents, files and maintains paid document files, posts entries on reconciliation sheets and assists in monitoring control log of transactions. **Job Relevant Criteria:** Ability to work with figures; ability to perform routine clerical duties; ability to maintain a high level of accuracy in work requiring close attention to detail. Promotion potential to GS-5.

File applications for the above with Kitty Berry, Bldg. 34, Rm. 204, Ph. 2722.

Lead Firefighter, GS-081-6, PD No. 7824035, Code 242 — This position is located in the Fire Division of the Safety and Security Department. Incumbent is crew chief of the major piece of motorized fire fighting apparatus and its crew. Duties include answering fire alarms; instructing crew in operation of fire equipment and all phases of fire fighting and directing fighting of fires in absence of high authority. **Job Relevant Criteria:** Knowledge of fire prevention practices and ability to supervise and conduct inspections and identify fire hazards; ability to communicate with others effectively both orally and in writing in working out solutions to problems or questions relating to the work; potential to motivate, train, and work effectively with subordinates who have a variety of backgrounds and training; ability to plan own work and carry out assignments effectively; demonstrated potential ability to plan initial attack including rescue and the efficient control and extinguishment of fires; knowledge of locations (streets, water distribution, alarm/detection systems, building contents/layouts, etc.). This announcement will be used to establish the promotion register for Supervisory Firefighter, GS-081-6, which will remain in effect until August 1980.

File applications for the above with Janet Thomas, Bldg. 34, Rm. 204, Ph. 3118.

Equipment Mechanic, WG-5352-8, JD No. 330, Code 26414 — Promotion potential to WG-10. This position is in the Maintenance Utilities Division of the Public Works Department. The incumbent installs, overhauls, repairs, maintains, alters as needed machine shop equipment, power plant equipment, large fresh water pumping equipment, range testing equipment, cranes and hoists, high and low pressure pneumatic systems and equipment, hydraulic systems and equipment, hydraulic/pneumatic systems and equipment, sewage disposal plant equipment, steam engines, steam cleaners, internal combustion engines, also controls for above items. **Job Relevant Criteria:** Ability to install, maintain, overhaul, repair and

test run mechanical equipment; ability to read and interpret blueprints, sketches, etc.; ability to troubleshoot pertinent equipment; ability to use hand tools and measuring devices; ability to do the work of the position without more than normal supervision.

Electrician, WG-2805-10, JD No. 457, Code 26421 (2 vacancies) — This position is in the Maintenance Utilities Division of the Public Works Department. The incumbent plans proposed installations from blueprints, sketches and specifications, cuts pipes to size, threads, assemblies, and fuses to building framework and pulls wire through conduit. Lays out, assembles, installs, and tests electrical fixtures, apparatus, control equipment, and wiring used in the alarm, radio communication, light, and power systems of buildings. Splices wires, cables, and auxiliary equipment; replaces defective wiring, overhauls and repairs motors, performs non-scientific electronics work of experimental nature, maintains and repairs electrical and electronic equipment in boiler plants. **Job Relevant Criteria:** Ability to do the work of the position without more than normal supervision; use of electrical test equipment; knowledge of electrical theory; electrical drawings; hand and power tools; safety and dexterity; technical practices.

Laborer Foreman, WS-3502-3, JD No. 7924084E, Code 26451 — Temporary promotion not to exceed 1 year (1 vacancy). This position is located in the Maintenance Utilities Division of the Public Works Department. Incumbent plans sequences of operations and work scope of subordinates, interprets blueprints, sketches and other instructions as required, prepares layouts and sketches, requisitions tools, materials and equipment. Plans work and assigns to employees. Inspects work in progress and on completion. Keeps superiors advised on status of projects. **Job Relevant Criteria:** Ability to supervise technical practices; ability to interpret instructions; knowledge of materials; knowledge of equipment; File SF-172 and Supplemental Wage Grade Supervisory Information sheet with Code 097 to be received not later than Feb. 29, 1980. Forms may be obtained in the Personnel Building, Rm. 210. NOTE: Permanent promotion may be made at a later date as a result of this ad.

Pneumatic Tools Operator, WG-5732-6, JD No. 319, Code 26451 — This position is in the Maintenance Utilities

Training opportunities

The Navy Scientist Training and Exchange Program (NSTEP) is designed to provide long term training opportunities for NWC employees grades GS-9 and higher. These training assignments are located in the Washington, D.C. area. The program is used for cross training and development of key personnel at the middle, senior and executive levels. The training varies from 4 months to 2 years depending on the assignment. The employee selected will go on the training assignment at his current grade level and position description. Applicants must be at the grade level listed in the notice. For information or to apply for the below listed training opportunities, contact Len Gulick, Code 035, Ext. 2793.

Staff Specialist, Air Warfare (Engineering all series), Physics, Mathematics, Operations Research, GS-155, located in the Office of the Deputy Under Secretary for Defense Research and Engineering, Tactical Warfare Program: Air Warfare. Developmental Opportunity: This developmental assignment will provide the person selected experience in DoD, dealing with missile systems. The participant will gain experience in dealing with engineering problems, issues, tradeoffs, analyses and interfaces involved in planning and prioritizing the various missile systems in development, or those considered for development. The individual selected will be placed in this developmental assignment at his/her current grade level for a period of approximately one year. Upon completion of the assignment, the participant will return to his/her former position. Training Objectives: This assignment is designed to broaden the participant's perspective of the issues involved in R&D management and DoD systems acquisition. Specific objectives will be determined when the required training plan is written. This will be done immediately following selection for the developmental position. Duties of the Participant: (1) The participant will plan, formulate, and assess aircraft and missile systems, system operational concepts, system procurement concepts, and also components and equipment programs under the cognizance of the Department of Defense. (2) The participant will apply a detailed knowledge of advanced technical concepts for missile and aircraft systems and their operational utility in improving the U.S. military capability. (3) Participate in the preparation and review of: mission area summaries, Decision Coordinating Papers (DCP), and program memorandums and congressional inquiries. (4) Monitor and perform technical and management review of aircraft and missile programs within the responsibilities of the Air Warfare Division.

Qualifications Required: (1) A bachelor's degree or equivalent experience in engineering, physics, mathematics, or operations research; a graduate degree is desirable. (2) Senior level technical management experience. (3) Experience in missile systems and demonstrated ability to develop systematic and inclusive program plans for weapons systems; components/equipment/concepts. (4) Knowledge of systems acquisition and the DoD Planning, Programming, and Budgeting System. (5) Must be able to establish and maintain work relationships, and effectively represent the DoD with high level personnel, both within and outside DoD.

Division of the Public Works Department. The incumbent operates various pneumatic tools to breakup or drill hard surfaces such as concrete, asphalt, and masonry. Drives truck on which air compressor is mounted to the work site. Starts, stops and adjusts air compressor. Operates jackhammer or paving breaker. Uses hand tools and operates pneumatic rotary drill. Makes minor repairs and adjustments to air compressor. Assists in shoveling of earth or concrete. **Job Relevant Criteria:** Ability to operate motor vehicle safely; work practices; ability to interpret instructions; operation of pneumatic tools with various attachments and air compressors; reliability and dependability; ability to do the work of the position without more than normal supervision.

File applications for the above with Linda Long, Bldg. 34, Rm. 210, Ph. 2032.

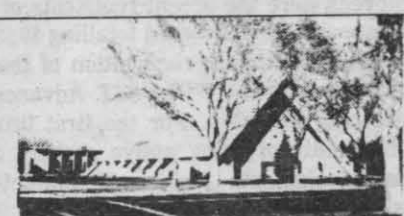
Editorial Assistant, GS-1087-4/5/6, PD No. 7924022/023/024N, Code 3656 — The position is located in the Specifications Branch, Technical Data Division, Engineering Department. The positions at the GS-6 level represents the full performance level of the Specifications Branch editorial assistant career level. The incumbent performs the full range of editorial assistant duties in support of the specifications and other technical document preparation program. In addition, the incumbent receives basic training in specifications writing and editing and associated technical disciplines to provide greater understanding of the overall specification (technical document) preparation cycle. **Job Relevant Criteria:** Working knowledge of engineering terminology and document format, style and content requirements MIL-STD-480, 490, 961, and 962, and the Defense Standardization Manual 4120.3-M used for the preparation of specifications and other technical documents; ability to interpret documents reviewed to ensure internal consistency and clarity of expression; ability to locate sources of technical information when sources are poorly identified; ability to communicate orally and in writing, and ability to work as a team member with specialists involved in the preparation of technical documents. Promotion potential to GS-6.

Supervisory Mechanical Engineer, GS-830-14, PD No. 8036004E, Code 3642 — Position is located in the Engineering Support Branch, Fleet Engineering Division, Engineering Department. The position is head of the branch and supervises approximately 17 to 20 engineers and technicians through subordinate section heads. The main functions of the branch are (1) to provide engineering services in support of weapon production (primarily propulsion, airframe and explosive components), failure analysis and redesign, (2) production management of assigned components in contractor facilities, and (3) resolve technical problems encountered in the Fleet on NWC-developed weapons. **Job Relevant Criteria:** Demonstrated supervisory/managerial abilities over a diverse technical working group, with emphasis on the ability to actively lead, motivate and maintain a dynamic working organization; technical expertise in propulsion airframes, warheads and S&A devices; experience in direction and coordination of production of components and assemblies; liaison skills and abilities with all levels of commands/offices and demonstrated capability to communicate technical concepts both orally and written.

Electronic Mechanics Helper, WG-2614-5, JD No. 577, Code 36411 — (3 vacancies). Positions are located in the Electronics Prototype Branch, Engineering Division, Engineering Department. Incumbent assists senior personnel in fabrication, modification, repair, test and calibration of electronic equipment. Typical work includes mounting and soldering of electronic components on printed circuit boards and performance of basic tests and measurements on components and equipment. **Job Relevant Criteria:** Reliability and dependability; shop aptitude and interest; ability to follow directions; dexterity and safety; ability to work as a member of a team. Promotion potential to Electronics Worker WG-2614-8. Supplemental qualifications statement is required and can be picked up in Rm. 206 of the Personnel Bldg.

Specification Writer/Editor, GS-1083-5/7/9/11, PD Nos. 7936050N, 7936051N, 7936052N, 7936053N, Code 3656 — (1 vacancy). This position is located in the Specifications Branch, Technical Data Division, Engineering Department.

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DIVINE SERVICES

PROTESTANT
Sunday Worship Service 1000
Sunday School—All Ages 0830
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 0830-1130
Nursery, Chapel Annex 1 0815-1245
Daily except Saturday, 1135. Blessed Sacrament Chapel

CONFESSIONS 1115 to 1130
Sunday 0800 to 0825

RELIGIOUS EDUCATION CLASSES
Sunday Pre-school thru 11th grade 1000
Above classes are held in the Chapel Annexes across from the former Center Restaurant.
Sunday afternoon 12th grade 1630
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
CHAPLAIN ANNEX 95
Services—(Sept.-May) 1930

Burros lose 1st league tilt . . .

(Continued from Page 6)

Donohue of Canyon, who tallied 19, while Bill Barosh chipped in 16 for the Cowboys.

Canyon had a 25 to 23 advantage in the number of field goals scored, but the Burros had the better of it at the free throw line as they cashed in on 14 of 17 attempts, compared to 11 of 16 for the Cowboys.

The visitors from Hart High School in Newhall came up with a good game against Burroughs for the first 2½ quarters of last Friday's game — creating some doubt about the final outcome until midway through the third period of play.

From that point on, however, the Burros broke through the Indians' zone defense and dominated the scoring for the remainder of the game.

The BHS cagers had a 3-point lead of 31-28 when Todd Enging, 6 ft., 4 in. forward for the Hart Indians, fouled out with 5 min. still left to play in the third quarter.

Rec. Roundup . . .

(Continued from Page 6)

well as an outline of the applicant's own record of participation in sports competition.

The 1980 softball season will begin in May.

Softball Officiating Bids

Bids are now being accepted from officials' associations interested in handling the China Lake Intramural Softball program that will get underway in May.

Officials are needed to work men's and women's fast pitch softball games, as well as men's slow pitch softball contests. Game officials and scorekeepers are needed. Scorekeepers will be required to operate the scoreboard and prepare a press release for each game, in addition to their regular duties.

Bids, which are due no later than March 3, should be addressed to: Athletic Director, Code 0891, Naval Weapons Center, Calif., 93555.

Water Exercise Class

Registration is now open for a new series of water exercise classes for women that will be taught by Joan Renner at the Center's indoor swimming pool.

Signups are being taken at the Recreation Coordination Office, located next door to the Center gym, Monday through Friday from 9 a.m. to 5 p.m., and there is a \$20 fee for five weeks of classes. Ability to swim is not a requirement for enrollment.

The schedule of classes is as follows: Monday and Wednesday from 9 to 10 a.m., starting Feb. 20; Monday and Wednesday from 5 to 6 p.m., starting Feb. 20; and Tuesday and Thursday from 1 to 2 p.m., starting Feb. 21. The early evening class on Mondays and Wednesdays is limited to a maximum of 15 participants.

Enrollment open in 2 writing courses set later this month

Enrollment applications are now being accepted for two writing courses scheduled in late February that will be taught by C. E. Van Hagan, former head of the NWC Technical Information Department.

One course, entitled "Report Writing," will be held from 8 a.m. to 4 p.m. on Feb. 26 and 27 at the Training Center. Emphasis will be on general principles of writing that are applicable to both formal and informal reports published at the Naval Weapons Center.

On Feb. 28, also from 8 a.m. to 4 p.m. at the Training Center, Van Hagan will conduct a course on Elements of Memo Writing. The focus of this course is on the clear and concise communication of ideas and information via a memo. In addition, this course will deal with appropriate uses of memos, as well as the commonly accepted format for them.

Those interested in enrolling in either of these courses must submit a training request and authorization form via proper department channels in order for it to reach Code 094 no later than Monday.

This turn of events opened up the inside and Steve Motte, 6 ft., 6 in. center for Burroughs, was able to work his way in for three quick baskets that increased the Burros' lead to 37-30. Before the third period was over, Motte tallied 9 points and the Burros had their biggest lead of the game — a 10-point margin of 46-36.

In the final 8 min. of the contest, 6 points each by starters Mike Wirtz and Dalton Heyward, as well as by reserve center Scott Dedmon, helped to put the game on ice for Burroughs. The local varsity quintet surged to a 20-point lead of 62-42 and then coasted to 68-50 victory.

The Burros took awhile to get started in the first quarter of play, but moved ahead (10-9) with 2 min. left to play in the initial period of action, and were on top (16-12) when the second quarter began.

The Burros held a slim lead (no more than 3 points) during most of the second period of play, but this was increased to 5 (31-26) when Billy Brown hit a long looping shot seconds before the buzzer sounded marking the end of the first half.

Against Hart, the Burros hit 53 percent of their shots from the floor and had an advantage of 26-20 over the Indians in the field goal department. The locals also cashed in on 16 free throws compared to 10 from Hart.

Heyward was the game's high point man with 17 for Burroughs, while Motte and Wirtz tallied 14 and 12 points, respectively. The Indians were led on offense by Joey Charles, a good outside shooter, who tallied 13, and by Clay Collins, who chalked up 5 field goals for 10 points.

Cantrell now manager-sup't of local golf course

Jim Cantrell, former golf course superintendent, has been promoted to the newly-created position of manager/superintendent of the China Lake golf course.

Cantrell is taking over the post formerly held by Paul Someson, long-time golf pro at the China Lake links.

The former superintendent of the local golf course has been here for the past 16 months. Prior to that time he was superintendent of the Dixie Red Hills Golf Course at St. George, Utah.

Cantrell has had 18 years of experience in this line of work, including responsibilities as superintendent of the Ocean City Golf and Yacht Club in Ocean City, Md., and six years as manager of the golf course at the Naval Training Center in Bainbridge, Md.

During the past year, Cantrell reports, the China Lake golf course was in the best shape that it has been for some time. He attributes this to good maintenance control of the greens, as well as proper irrigation, Cantrell stated.

Having just recruited Tom Barrett to



—Photo by Ron Allen

WORK ASSIGNMENT CHECKED — Jim Cantrell, newly-appointed manager/superintendent of the China Lake golf course, checks over details of golf course maintenance work with his assistant, Tom Barrett. The latter, whose primary duties include maintenance of the golf course greens, tees and fairways, is at the controls of a machine used for mowing the greens. Cantrell and Barrett are both members of the Golf Course Superintendents' Association of America.

handle the duties of assistant superintendent at the local golf course, Cantrell expects to see continued improvement of the local golf course, in addition to upgrading the overall operation of the golfing facility by restocking the pro shop and actively encouraging more golfers (both men and women) to join the China Lake Golf Club.

The China Lake golf course is open for use by military personnel (both active duty and retired), to civilian employees of the Department of Defense, and there are associate memberships that are open to other local area residents who can obtain details about joining the China Lake Golf Club by calling Cantrell at NWC ext. 2900.

Barrett, the new assistant superintendent of the golf course, was recruited from the Skyline Country Club in Tucson, Ariz. His primary duties are maintenance of the golf course greens, tees and fairways, and operation of the irrigation system.

A graduate of the University of Arizona at Tucson, where he majored in agronomy and

plant genetics, Barrett has shown himself to be knowledgeable in matters relating to golf course maintenance and operation, and has displayed the desire to do a good job, Cantrell stated.

Early morning lap swimming program continues weekdays

An early morning lap swimming program will be continued on a trial basis until the end of February at the Center's indoor swimming pool.

Those who enjoy swimming for exercise are invited to participate in this program Monday through Friday from 6 to 7:30 a.m.

There is no charge for active duty military personnel, or for members of the Athletic Association. Civilians who are not members of the Athletic Association must pay a daily charge of \$1 that is collected by the attendant on duty at the swimming pool.

Promotional Opportunities

(Continued from Page 2)

continuity of internal information and clarity of expression. The incumbent makes recommendations to author for restructuring of sentences for better understanding without altering meaning of text. **Job Relevant Criteria:** Knowledge of scientific and engineering terminology and report format; experience in editing and typing technical material and reports for publications, which includes a knowledge of reference sources, styles and format; ability to reorganize written material for improved consistency and/or clarity with a comprehensive knowledge of punctuation, spelling and grammar. Promotion potential to GS-5.

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

Administrative Officer, GS-341-7, PD No. 8038002, Code 382 — This position is located in the Earth and Planetary Sciences Division, Research Department. Incumbent will perform all administrative functions for the division including budget summaries, procurement requests, contract source justifications, cost estimates, facilities planning, space, safety and personnel. **Job Relevant Criteria:** Ability to prepare clear and concise communications; ability to exercise judgement in the performance of a wide variety of administrative tasks; knowledge of scientific terms and nomenclature. **File applications for the above with Pat Gaunt, Bldg. 34, Rm. 212, Ph. 2514.**

Editorial Clerk (Typing), GS-1087-4, PD No. 8036007N, Code 3644 — This position is located in the Integrated Logistic Support Branch, Fleet Engineering Division, Engineering Department. The incumbent edits manuscripts for ILS and maintainability program plans, airtasks, ground support equipment, requirements documents, logistics support analysis reports, program budget documents, technical memorandums, contractual documents, program planning documents and off-center official correspondence. She/he reviews text to assure

reliability and dependability; ability to type accurately and efficiently; knowledge of Navy correspondence format.

Mechanical Engineering Technician, GS-802-7, PD No. 7962083N, Code 6221 — This position is in the Instrumentation Section of the Track Operations Branch in the Range Department. The Instrumentation Section is responsible for provision, specification, operation, maintenance of electronic instrumentation, and for cooperation with sled design, photographic, electrical and ordnance aspects of track testing. The incumbent will assist in the mechanical design of photographic and electronic systems for track range use, assisting the developing engineer with design, drawing, fabrication and assembly of these items. Additionally, he will maintain close liaison with other branch personnel to make certain that time schedules will be met. **Job Relevant Criteria:** Knowledge of mechanical design and development procedures; knowledge of drafting; knowledge of machining practices, and ability to work well with others.

Electronics Technician, GS-854-6, 18 or 11, PD No. 7862015N, Code 6241 — This position is located in the Telemetry Systems Branch of the Range Department. The primary function of the branch is to provide engineering support for the design, development, fabrication, engineering documentation, test, and evaluation of telemetry systems and components for application to weapons, aircraft, and ground instrumentation. The incumbent will assist in the design and development of environmental instrumentation of telemetry systems and associated instrumentation in current use by the branch. He will also conduct validation tests of telemetry design proposals. **Job Relevant Criteria:** Knowledge of electronic systems operation, test, and maintenance; knowledge of solid state devices; ability to work with others.

File applications for the above with Bonnie Owens, Bldg. 34, Rm. 204, Ph. 2577 or 3118.

Secretary (Typing), GS-318-4, PD No. 7962064N, Code 6221 — This position is located in the Range Department's Air Operations Branch. The incumbent screens visitors and incoming telephone calls. Prepares and edits correspondence submitted by personnel in the branch. Responsible for proper format, address, correct distribution and security classification. Performs file applications for the above with Marge Stanton, Bldg. 34, Rm. 206, Ph. 2925.

Administrative Officer, GS-341-7, PD No. 8038002, Code 382 — This position is located in the Earth and Planetary Sciences Division, Research Department. Incumbent will perform all administrative functions for the division including budget summaries, procurement requests, contract source justifications, cost estimates, facilities planning, space, safety and personnel. **Job Relevant Criteria:** Ability to prepare clear and concise communications; ability to exercise judgement in the performance of a wide variety of administrative tasks; knowledge of scientific terms and nomenclature. **File applications for the above with Pat Gaunt, Bldg. 34, Rm. 212, Ph. 2514.**

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Recreation Roundup

Registration for skin-scuba diving class now open

Preparations are being made for conducting a skin / scuba diving class that will begin on Feb. 20 and continue on Wednesday evenings for the following six weeks.

The Special Services Division has made arrangements for this class, which is to be taught by Robert Fox, of Ridgecrest. Fox is a member of the Professional Association of Diving Instructors.

Class sessions will start with lecture presentations at 6 p.m. at the Community Center, and be concluded by approximately 1½ hours of instruction at the indoor swimming pool that will end at 9:45 p.m. During the six weeks of classes, there will be five open water dives in the ocean on weekends.

Each student will be required to provide his or her own swim fins, face mask, snorkel, boots and gloves. Oxygen tanks will be furnished by the instructor for use during the classes held at the indoor pool only.

Registration for this class is being handled at the Recreation Coordination Office, located next door to the Center gym, and there is a fee of \$90 per student. Further information can be obtained by calling Paul Backiewicz, NWC athletic director, at NWC ext. 2334 or 2571.

Softball Coaches Sought

Persons interested in coaching or managing the NWC varsity fast pitch and slow pitch military softball teams are asked to make this interest known by submitting an application to Paul Backiewicz, NWC athletic director, not later than Feb. 29.

The type of information that should be included on the application includes details of previous softball coaching experience, as

(Continued on Page 7)

Top teams tangle in Premier League bowling competition

In head-to-head competition Monday night at Hall Memorial Lanes, the Triangle Mobile Homes leggers handed the Raytheon Sidewinders a two-game setback that bounced the Sidewinders from second to third place in the Premier League standings.

The Sidewinders 2-1 loss, coupled with a three-game sweep by The Place over Clancey's Claim Co. enabled The Place to take over the league runner-up spot.

High team game for the night was the 1,013 rolled by The Place, while the Fisher Plastering squad posted the high team series (2,840).

Four Premier League bowlers topped the 600 series mark for the night. The bowlers and their scores were John Therning (612), Aaron Kane (611), Walt Emde (606), and Pat Nalley (605).

Those who rolled single games with scores of more than 220 were Alex Ribault (245), Warren Turnbaugh (230), Therning (227), Cliff Moss (222), and Hub Zimmerman (221).

Current standings are:

Team	Won	Lost
Triangle Mobile Homes	42	18
The Place	35	25
Raytheon Sidewinders	34	26
Clancey's Claim Co.	32	28
Bugby Bath	30	30
Parlow Construction	28	32
Hideaway	27	33
Fisher Plastering	26	34
Elks Lodge	25	35
E.R.I. Hustlers	21	39

Despite loss to Canyon, Burros cling to league lead

The Burroughs High School boys' varsity basketball team's Golden League winning streak was ended at nine consecutive victories on Tuesday night when the Burros lost a 61-60 thriller to the Canyon High School cagers in a game played at Canyon.

Despite the loss, the BHS varsity squad remains in first place in the Golden League with a record of 9 wins and 1 defeat compared to the 8-2 record of the second place Palmdale Falcons.

The Burros have drawn a bye in league action tonight, but will resume play in a home game on Wednesday against Saugus and then wind up the Golden League schedule next Friday night at Palmdale, where all the chips are expected to be on the line in deciding the 1980 league basketball title.

Critical Points in Contest

Two of the critical points in the Burros vs. Canyon Cowboys varsity hoop tilt occurred in the closing seconds of the first half, and as time was running out at the end of the fourth quarter.

The BHS cagers held a 32-28 lead with 4 sec. left to play in the first half when a foul was called. A Canyon player hit a 1 and 1, plus another shot from the charity stripe that was awarded by the officials on a technical against one of the Burros cagers. Then, just a tick ahead of the halftime buzzer, the Cowboys, who got the ball out of bounds following the technical foul, hit a field goal that sent them into the locker room with a 33-32 lead at the midway point in the game.

This 5-point surge in 4 sec. of playing time pumped up the Canyon Cowboys, who were eager to avenge a previous lopsided defeat at the hands of the Burros.

Despite the incentive of playing before their home fans and needing a win to stay in the race for a possible berth in the C.I.F. playoffs, the Cowboys had their hands full from the outset of Tuesday night's game.

The two teams were tied 16-16 at the end of the first quarter, and the Burros were outscored by 1 point (17-16) in the second period. Both teams tallied 15 points in the third quarter, which set the stage for the hectic, final period of play that went right down to the wire before the Cowboys emerged with a 1-point victory.

With the score tied at 59-59 and 20 sec. left to play in the game, the Canyon Cowboys

Shooters miss chance to move up on Div. A leaders

The Shooters, who are struggling to remain in second place in Division A of the China Lake Intramural Basketball League, last week missed an opportunity to strengthen their position in the division standings.

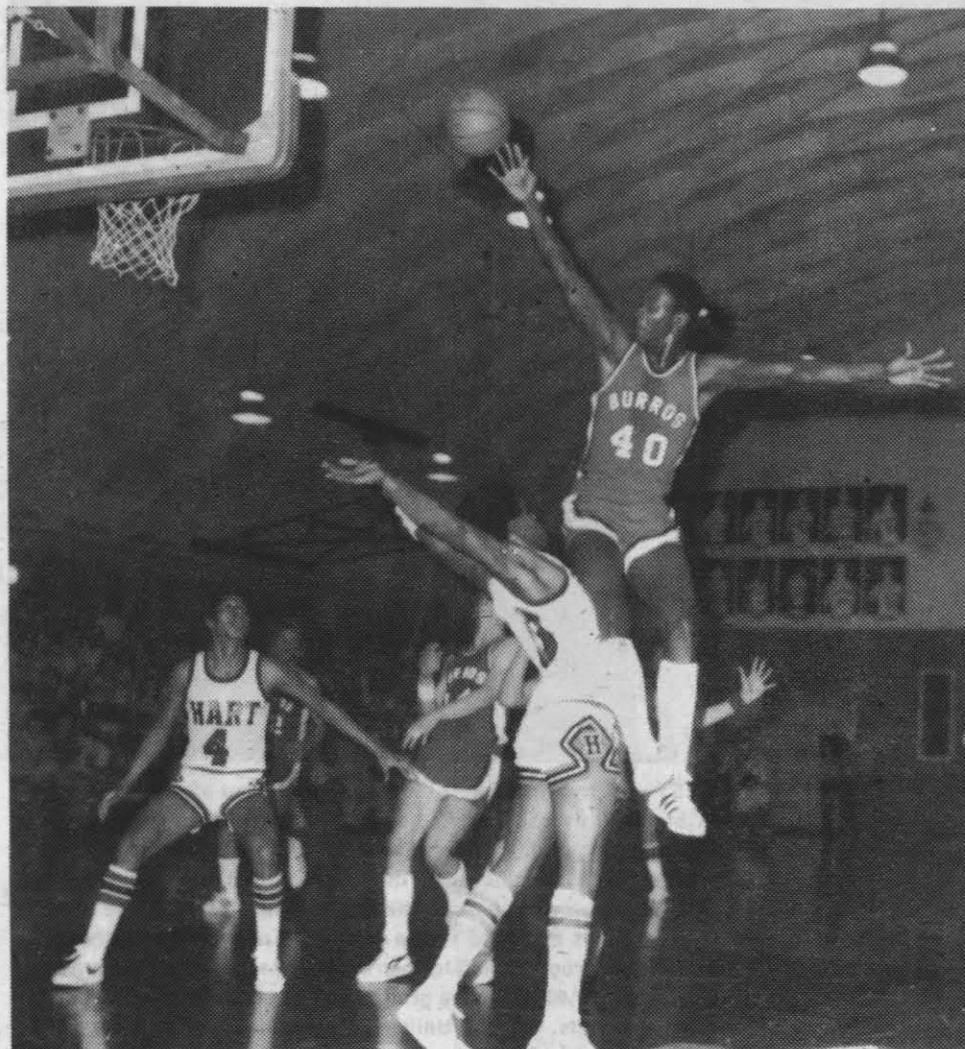
In a week during which the league leaders (Loewen's A) were idle, the Shooters posted a 64-54 win over the Seattle II quintet, but then lost to the Sports Etc. Raiders by the narrow margin of 44-43.

The Shooters, led by Al Sorensen's 14 points, built up a 29-23 lead at halftime in their game against the Seattle II hoopsters, and then pulled away to win by a 10-point margin of 64-54. L. T. Lowery tallied 13 in a losing cause for Seattle II.

In a game that was as close as the final score (43-44) indicated, the Sports Etc. Raiders moved into contention for second place by defeating the Shooters. The Raiders led, 22-21, at the half. The 19-point effort of Jerry Pangle for the Raiders was instrumental in his team's win, while Bobby Parsons led the Shooters in the scoring department with a total of 12.

The Raiders picked up their second win of the past week by outscoring the Desert Motors cagers, 48-32, in another Division A contest. Mark Wooten and Alan Robertson chipped in 8 points each to lead the Raiders' scoring attack in this tilt.

The Burger King squad took over first place in the intramural basketball league's Division B by virtue of a 73-50 win over the Bebops, while the Loewen's B team also was idle for the week. Doug Taylor rattled the hoop for 22 points in the Burger King win. Top scorer for the Bebops was Mike



LOOK OUT BELOW — Dalton Heyward, starting forward for the Burroughs High School boys' varsity basketball team, goes high in the air to get off a shot at the basket during the game played here against Hart High School last Friday night. The Burros, led by Heyward's 17 points, defeated the Indians by a score of 68-50. Chris Jones is the Hart High School player attempting to guard Heyward, while Dave Rivas (no. 4) moves into position for a possible rebound.

called a time out. When play resumed, the Cowboys worked the ball in for an attempted layup that was blocked by Curtis Edmonson of Burroughs.

The loose ball was snapped up by Scott Lindvall, of Canyon, who put it through the hoop for 2 points that gave the Cowboys a 61-59 lead. There was now just 4 sec. left to play and the Burros called a time out. Putting the ball back into action, Richi Drake tossed the ball the length of the court to Steve Motte, who was fouled as he caught it.

Motte went to the charity stripe where he hit the first of two free throw tries, and the game ended with the Burros trailing by a single point, 61-60.

Mike Wirtz was the top scorer for Burroughs with 18, and grabbed 8 rebounds. Other Burros in the double-figure scoring column were Motte (15) and Dalton Heyward (12). Heyward also snagged 8 cars and helped to give the Burros a 28-23 edge in the rebound department.

The game's high point man was Dale

(Continued on Page 7)

Shooters miss chance to move up on Div. A leaders

Hicks, who tallied 16.

In other Division B contests, the Nuggets edged the Night Stalkers, 41-39, but lost to the James Gang by a score of 50-42. High point man in the Nuggets vs. Night Stalkers, tilt was Basil Robinson, who scored 19 in a losing effort for the Night Stalkers. Leading scorer for the Nuggets was Randy Johnson, who hit 16.

Battle Between Cellar Dwellers

Johnson's effort (18 points) wasn't enough for the Nuggets in their 50-42 loss to the James Gang in what was a battle for the cellar position in Division B. The Nuggets trailed the James Gang 25-18 at the end of the first half in this game. Dave Long led the victors' scoring with 14 points.

The Brown Sugar cagers came close, last week, but fell short in an attempt to upset

China Lake Intramural Basketball League Standings as of Feb. 1			
Team	Division	Won	Lost
Loewen's A	Division A	9	0
Shooters		6	4
Sports Etc. Raiders		6	5
Desert Motors		3	7
Seattle II		1	9
Burger King	Division B	8	1
Loewen's B		7	1
Bebops		5	4
Night Stalkers		2	6
Nuggets		2	7
James Gang		2	7
Poochies	Division C	7	2
Gas Bags		5	3
Inmates		5	3
Comarco Chickenhaws		5	3
Brown Sugar		4	5
Pizza Villa Floorburners		3	6
Fat		1	8

the Poochies, Division C leaders. Final score in this game was 34-32 in favor of the Poochies, who trailed 19-16 at the half in this low-scoring contest. Duane Bobbit of the Poochies was the only player in the double-figure scoring column, and he had 10, while Ronnie Cayanan tallied 9 for the Brown Sugar team.

In two other Division C tilts both the inmates and the Comarco Chickenhaws posted lopsided wins over Fat by scores of 35-15 and 48-20, respectively.

Dan Ward pitched in 12 points to lead the inmates in their victory over Fat, and Rick Noland (with 16) was the high point man for the Chickenhaws in their win over C Division's last place team.

Dalpiaz memorial bowling tourney slated Feb. 16-17

The second annual Fred Dalpiaz, Jr., memorial bowling tournament will be held at Hall Memorial Lanes on Saturday and Sunday, Feb. 16-17.

Bowling competition will start at 4 p.m. on Feb. 16, and be followed by two more shifts that will get underway at 6:30 and 9 p.m. Two shifts are planned on Sunday, Feb. 17 — starting at 11 a.m. and 1:30 p.m.

The entry fee is \$5 for singles, plus an additional \$2 for those who wish to join another bowler on their shift and vie in the doubles competition.

Fred Dalpiaz, Jr., a former assistant manager at Hall Memorial Lanes, died in November 1978. He had been a Special Services Division employee at the local bowling alley for approximately eight years.

Woman test parachutist . . .

(Continued from Page 1)

help the Parachute Systems Department in a project that will result in survival equipment being designed specifically for women pilots and other female aircrew personnel.

Survival equipment that would be ideal for PR3 Mooney at a trim 5 ft., 6 in. and 122 lb., would vary considerably from that which a 6 ft., 200-lb. man would need. The only adequate way to test new designs of survival equipment, such as parachutes and related equipment, is by having a test parachutist make an actual drop using the equipment after all other test requirements have been completed.

The test parachutists always carry a reserve parachute, and work closely with engineers and designers so they feel confident by the time they make that test jump. For obvious reasons, all test parachutists are well-trained volunteers.

LCdr. Hal Phoeny and PRCS Allen made the final selection of the first women to take the training on the basis of several factors including height and weight, aircrew rating, ability, and willingness to volunteer. They talked with more than 10 Navy women before selecting PR3 Mooney and PRAA Arsenault.

LCdr. Hal Phoeny, MSC, serves as the project engineer and did all the ground



PROUD TRIO — PR3 Anne Mooney (at left) holds the certificates proclaiming that she has qualified as both a Navy parachutist and a test parachutist, PRAA Lisa Arsenault holds her certificate for becoming a Navy parachutist, and Capt. W. B. Haff, NWC Commander, displays the patch PR3 Mooney can wear after having qualified.

—Photos by Ron Allen

SECNAV, CNO present report to Congress on posture of Navy

Secretary of the Navy Edward Hidalgo and Chief of Naval Operations Admiral Thomas B. Hayward delivered their reports on the posture of the Navy to the House Armed Services Committee on Jan. 31.

In his statement, Admiral Hayward told committee members, "...Our Navy is better today in almost every way than it was a year ago."

Both Navy officials tempered this bright note with frank appraisals of the problems facing the Navy and with discussions of potential threats. The CNO and the Sec/Nav placed heavy emphasis on per-

sonnel matters and the absolute need to compensate Navy people more equitably. Retention of experienced, mid-level managers — officers and petty officers — carried No. 1 priorities in both statements.

Secretary Hidalgo said that while the Navy is doing all it legally can to retain people, it isn't enough. Failure to solve this problem will make force and hardware problems academic. He said: "People with 8-12 years experience can't be immediately replaced at any price. It takes another 8-12 years to regain the lost training, experience and leadership."

The Sec/Nav and CNO both expressed support for the proposed Fiscal Year 1981 budget and the five-year aircraft and shipbuilding plan growing from it. Secretary Hidalgo called for unfaltering pursuit of the plans formulated in this budget, with Admiral Hayward concurring in the need for firm commitments concerning the Navy's future.

Planning committee starts preparing for Armed Forces Day

The first meeting of a committee whose members will handle the many details connected with the local observance of Armed Forces Day on Saturday, May 10, is scheduled at 1:30 this afternoon in the conference room of the Administration Building.

The committee, headed by Capt. Louis Aldana, NWC Vice Commander, includes 12 subcommittees whose chairmen will report to Capt. Aldana through Vet Payne, Public Affairs Officer, who is the executive assistant/coordinator for the Armed Forces Day program.

Payne also will serve as liaison between the Blue Angels and the NWC Command. Highlight of the 1980 Armed Forces Day fete at NWC will be a visit of the Blue Angels, known officially as the U.S. Navy Flight Demonstration Squadron.

Members of the Armed Forces Day committee, and their areas of responsibility, are: Cdr. D. E. Becker, air show / air operations; Loretta King, open house activities; W. E. Davis, security; Mickey Strong, publicity; HMCS Larry Turner, first aid and medical needs; Denny Kline, personnel support (VIP / Blue Angels); LaVaughn Goss, social events; Cdr. P. S. Patterson, legal affairs; Lt. R. J. Boyd, sale of refreshments; Ray Sinnott, static displays; Jo Cherry, budget; and Cdr. D. A. Ringel, Public Works support.

Gasoline usage exceeds supply, making fuel conservation vital

The Naval Weapons Center is consuming gasoline at a rate that is 15 percent greater than the Center's suppliers can meet. As a consequence of this use pattern, the Center was out of gasoline for the last two days of January.

According to Capt. Louis P. Aldana, NWC Vice Commander, the gasoline problem is not a short-term phenomenon. Unless drastic conservation practices are implemented immediately, the Center expects to be out of fuel at the end of each month.

"The Command fully realizes the disruption a gas shortage will have on the departments, and will strive to minimize its impact on our mission," Capt. Aldana stated.

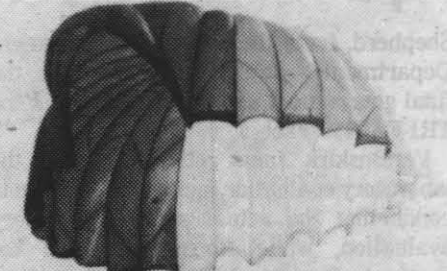
In an effort to stretch available supplies of gasoline to the fullest, the following practices are encouraged: Car pooling, scheduling trips and meetings in such a way as to minimize travel, and refilling vehicle fuel tanks only when they are less than half full.

Drivers of government vehicles should not "top off" vehicle gasoline tanks or idle engines.

"The gasoline shortage is a Center crisis," Capt. Aldana emphasized. "We must work together to maintain our capability during the coming months until a viable allocation program is implemented."

"The days of plentiful supplies of gasoline are gone forever, and the challenges presented by scarce resources will impact every organization on Center," the Vice Commander continued.

"We can cope with this scarcity through a dedicated conservation program. Conservation is no longer simply encouraged, it is now demanded. The alternative is to halt many of our activities," Capt. Aldana concluded.



GETTING READY — In preparation for her drop, PR3 Anne Mooney examines the instrumentation package that she carries under her reserve parachute. Her respiration, heart rate and other medical information were telemetered to the ground during her jump. The information obtained is used in a biomedical research project.

work and monitoring of the criteria and selection of the women for this program.

PR3 Mooney is a native of Hornell, N.Y., where she completed her high school education at Hornell High School. She attended Genesee Community College in Batavia, N.Y., for a year and a half before becoming an interior carpenter and laminator. ("I spent most of my time working on government furniture," she says.)

She joined the Navy three years ago, and attended "A" school at Lakehurst, N.J., before being stationed at NAS, Jacksonville, Fla. PR3 Mooney volunteered for the test parachutist training while there



because she had enjoyed the jump that students completing parachute rigger training are permitted to make if they wish. On acceptance for the test training, she transferred to NWC in October 1979.

She adds that her father, Joseph Mooney, and her three sisters and one brother all think that she is crazy to want to jump out of airplanes, but that they back her enthusiastically in what she wants to do, whether it's her hobby of softball or her profession of testing parachutes.

PRAA Arsenault, a native of Gardner, Mass., and a graduate of Gardner High School, also made her first jump on completing "A" school at Lakehurst. She came to NWC directly from "A" school, also in October 1979.

On completing their initial qualification as test parachutists, both women will join with the other test parachutists in an ongoing training program involving advanced free fall techniques, and in water landing operations. Each qualified test parachutist also serves as an instructor for new trainees.

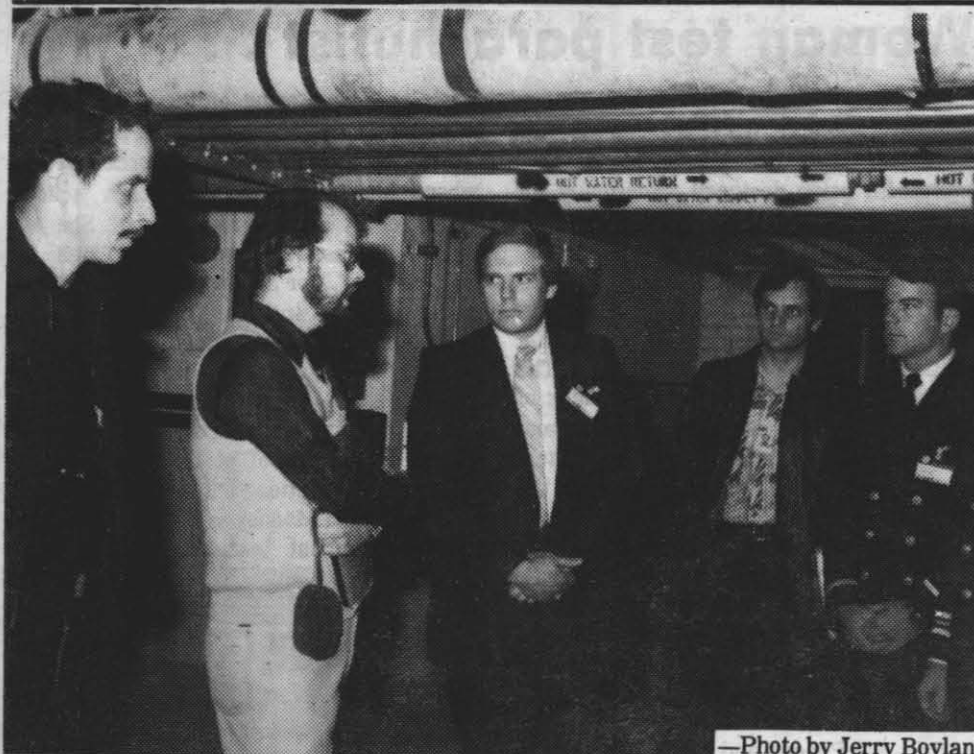
PR3 Mooney and PRAA Arsenault will bring the number of test parachutists now at China Lake to eight; PRCS Allen expects to start four more male student jumpers in the near future. He also says that these two are the only female test parachutists planned for Navy R&D work at this time.

Factor Evaluation System subject of F.E.W. meeting

How to prepare for a desk audit under the new Factor Evaluation System of assigning GS grades to secretarial, clerical, and assistants' positions will be discussed at a brown-bag luncheon of the Federally Employed Women (F.E.W.) next Thursday.

The meeting, which is open to anyone who is interested in the Factor Evaluation System, will be held in the Sidewinder Room of the Community Center starting at 11:30 a.m.

The discussion will include a 28-minute video tape entitled "Alice in FES Land."



—Photo by Jerry Boylan

GETTING TO THE BOTTOM OF THINGS — Members of the Naval Air Systems Command T&E Energy Council were given a tour of the basement of Michelson Laboratory during their recent visit to the Center. Dr. Clif Stine (second from left), acting head of the NWC Energy Program Office, describes the heating and cooling system of the building while (l. to r.) LCdr. Rampe, from NAC, Indianapolis; Robert Samchisen, Council chairman; Garyl Smith, NWC Alternate Energy Program Manager; and Ens. Craig Savant from Pt. Mugu, listen to him.

TRI-FAST Program personnel honored . . .

(Continued from Page 1)

vironment.

Employees from six departments had some part in the TRI-FAST Advanced Prototyping Program, but the largest segment (more than 80 percent) was handled by Weapons Department personnel. Key roles in this effort were handled by W. W. Harrington, head of the Systems Prototyping Office (Code 3906), who was the NWC Prototyping manager on TRI-FAST; W. R. Long, the NWC TRI-FAST project manager, and E. W. Bailey, NWC lead engineer on TRI-FAST.

Barrie Riddoch, of the Weapons Department's IR Anti-Air Branch, and Michael Mumford and Robert D. Smith, of the RF Anti-Air Branch, were responsible for the TRI-FAST simulation tasks. They wrote the test plan and verified it by their simulation work. They also developed for the first time a most realistic set of target models that were simulated in the MICOM Radio Frequency Simulation System at Huntsville, Ala.

Edward Short, of the RF Sensors Branch (Code 3952) was the test coordinator for the TRI-FAST Program's flyover and captive test phases. He insured that scheduling and equipment requirements were met at both NWC and PMTC ranges.

Four Code 39 employees — Charles Mayer, James Nichols, Richard M. Smith, and Thomas Stogsdill — were in charge of conducting the TRI-FAST flyover tests. In order to completely evaluate the TRI-FAST seeker during flight, these men had to build auxiliary equipment to categorize data so that it could be reduced easily. Despite the extremely short testing schedule both here and at PMTC, they not only obtained the maximum amount of data with extensive real time evaluation, but they also kept the program on schedule and within the planned budget.

The captive flight phase of the test program was the responsibility of another group of Weapons Department employees — Ray Morrow, Charles Pierce, Nelson Foucher, and Andrew Mitchell. Despite difficult testing conditions, namely numerous and varied aircraft maneuvers in high performance aircraft, these men obtained valuable seeker performance data in the captive flight environment. This enabled extensive evaluation of the seeker's capabilities.

Master coordinator during the TRI-FAST tests was Claude Brown, head of the Weapons Control Branch in Code 39, who made sure that his co-workers had the necessary test equipment and facilities to effectively perform their duties.

Three Center employees — Lyman Van Buskirk and Fay Hoban, both of the Weapons Department, and James

Shepherd, from the Systems Development Department — were responsible for the final government acceptance testing of the TRI-FAST seeker.

VanBuskirk (now retired) set up the laboratory evaluation facility, in addition to conducting the actual seeker laboratory evaluation, while Hoban evaluated the contractor's platform and gimbal system, and collected and evaluated environmental data. Shepherd, of the Computer Engineering Branch in Code 31, evaluated the seeker's tracking circuits by both analysis and actual lab testing.

Assistant Project Managers

Duties of assistant project managers were handled by Tommy Nickell, of the Weapons Control Branch in Code 39, and by George Ostermann, of the Test and Evaluation Directorate Office. They were responsible for day-to-day coordination of the TRI-FAST Program at NWC, as well as the support tasks of other government activities. In addition, they documented the proceedings of the weekly team leaders' meetings, while insuring that the sponsor was informed on a monthly basis regarding the status of the program.

Analysis that pinpointed and enabled corrections to be made in design of the TRI-FAST seeker was the contribution of Darryl Kinman and Joe Yee, of Codes 3954 and 3911, respectively. In addition, Marko Afendykiw (Code 3952) performed design

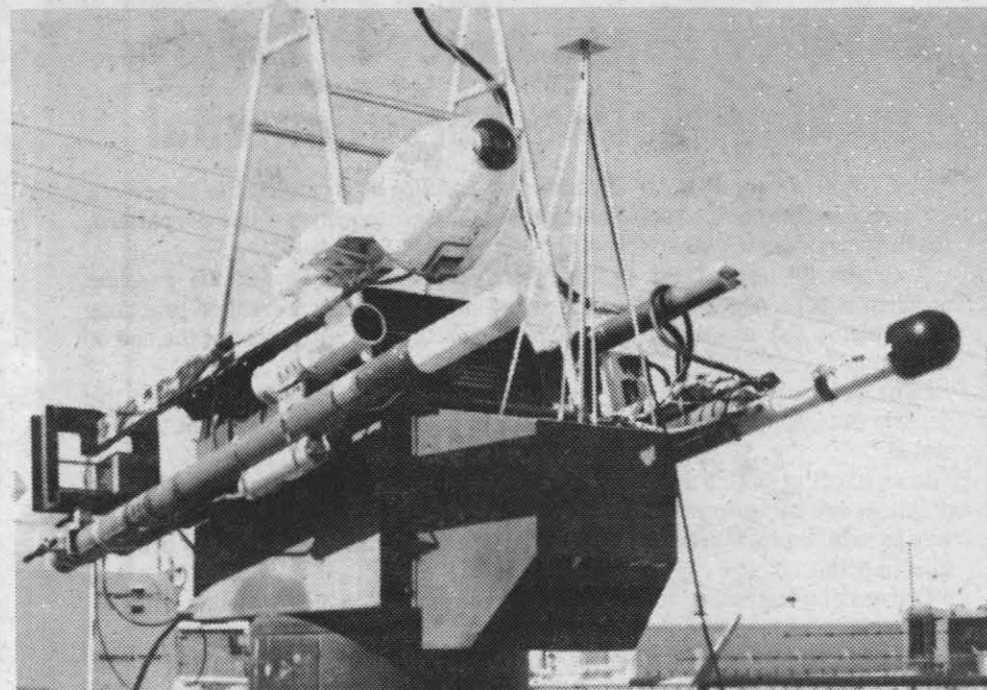
analysis of the solid state transmitter, and Allen Haun (Code 3922) set up and wrote all the computer programs that resulted in a turn around time of just 2 hours for the test data reduction.

Jack Brown, head of the Range Department's Telemetry Technology Branch, was responsible for designing and building the telemetry system and magnetic recorder used to collect and record all TRI-FAST test program data.

Budget preparation and keeping track of costs associated with the TRI-FAST program were handled by Leilani Banks (Code 3904) and Michael Hartney, of the Weapons Systems Cost Analysis Division in the Office of Finance and Management. They also were involved in procurement monitoring and the accumulation of information necessary for keeping up with the program's financial status.

Numerous viewgraphs that aided in the understanding of the project's mission and status were prepared by Russell Bushnell and James Koch, employees in Field Branch No. 2 of the Technical Information Department, while Shirley Tate (TRI-FAST Program secretary), edited and typed the program's final report.

Prior to the report's preparation, Ms. Tate was responsible for making frequent travel arrangements for those involved in the TRI-FAST Program, and assisted day-to-day visitors, in addition to efficiently performing her other office duties.



READY FOR FLYOVER TEST — Utilizing this type of test setup, flyover testing of TRI-FAST was performed to evaluate the surface-to-air seeker function against targets in both land and sea clutter environments. Mounted on a modified Chaparral missile launcher are the TRI-FAST seeker (at right), a television tracking aid (on top) and below it an RF acquisition aid. During this type of test aircraft targets flown overhead were tracked by the TRI-FAST seeker, which remained on the ground.

NAVAIR gp. briefed on conservation, alternate energy programs at NWC

NWC energy conservation and alternate energy programs were highlighted when the Naval Air Systems Command T&E Energy Council met at the Naval Weapons Center last week.

The council was formed in September 1979 by NAVAIR because of the potential for energy conservation in T&E activities; T&E activities are generally extremely heavy users of energy. The Council serves as principal organization to permit member activities to exchange energy conservation ideas.

Activities included in the Council are the Naval Air Test Center, Patuxent River, Md.; Pacific Missile Test Center, Pt. Mugu, Calif.; Naval Air Propulsion Center, Trenton, N.J.; Pacific Missile Range Facility, Barking Sands, Hawaii; AUTECH Detachment, West Palm Beach, Fla.; Naval Air Engineering Center, Lakehurst, N.J.; Naval Avionics Center, Indianapolis, Ind.; and NWC, China Lake.

The second meeting of the Council held last week was convened at Pt. Mugu, and then moved to NWC on Wednesday to enable Council members to see NWC's con-

servation and alternate energy programs in action.

During the two days of meetings held here, overviews of NWC's mission and of its T&E operations were presented by Bill Hattabaugh, head of the T&E Directorate, and by C. T. Daley, head of the Range Facility Design Branch.

Dr. Clif Stine, acting head of the Public Works Department's Energy Program Office, discussed local energy conservation problems.

The three alternate energy programs for which NWC is lead laboratory — Electric and Hybrid Vehicle Program, Photovoltaic Program, and Geothermal Resource Program — were discussed in detail by Garyl Smith, NWC Alternate Energy Program Manager, and Dr. Carl Austin, head of the Geothermal Utilization Division, both from the Public Works Department.

Tours of the Michelson Laboratory complex and the low energy structures located in the Salt Wells area, as well as viewing a film about the ranges, enabled the visitors to see various programs in operation.

Committee business meetings conducted by Robert Samchisen, chairman of the NAVAIR T&E Energy Council, concluded the local session.

Procurement policy for purchases under \$10,000 streamlined

On a trial basis, the Engineering Department and the Range Department at the Naval Weapons Center are now using a shorter procurement process for purchases under \$10,000.

This process emphasizes the responsibility and accountability of the manager; allowing him or her to certify many checks that previously required walking the "stub" from office to office. Unnecessary steps are eliminated.

Previously sequential steps are now done in parallel. The use of single line item stubs (a new requirement of the Navy Supply System) has been incorporated in the trial procedure. This allows faster ordering, better follow-up and accounting, and should provide quicker delivery. This quicker delivery is the pay off for the extra work in preparation.

In conjunction with the trial effort in Codes 36 and 62, a training team will be developed. This team will incorporate lessons learned during the progress of the trial program and be ready to start implementing the procedure Centerwide on March 15.

The new procedure will be used for six months and then evaluated to see if it did any good. If there is no improvement in procurement, the process will be terminated. If there is improvement, the process will be refined and institutionalized.

Starting Feb. 15, scrap wood to be sold at bargain rate

Beginning next Friday, Feb. 15, and continuing each Friday thereafter for as long as the supply lasts, scrap wood will be sold between the hours of 8 a.m. and 2 p.m.

The sale will take place at the Defense Property Disposal Office (Code 97), which is located in Warehouse 41 and can be reached by turning off the road to Armitage Airfield at 10th St.

The charge for each load of scrap wood will be \$2, regardless of its size or condition, and all sales will be on a cash-only basis.

Employees at the Defense Property Disposal Office will not be available to assist in loading the scrap wood, and no use of power tools on the premises will be allowed. It is suggested that prospective purchasers wear safety glasses and protect their hands by wearing gloves.



ROCKET FIRING TEST — A hybrid rocket, the work of a group of senior class engineering students at the University of Redlands, was brought to the Naval Weapons Center's G-2 range last week to be test fired. Not long after the rocket (14 ft., 5 in. long and 8 in. in diameter) was placed on the launch rail, it was discovered that its fittings wouldn't match up with those on the liquid oxygen cart and the test had to be delayed. The rocket is equipped with a telemetry pack and parachute recovery system. The latter is programmed to open after 30 sec. of flight — some 26,000 ft. down range and about 7,000 ft. above ground level — enabling the rocket to be recovered for additional tests. The five University of Redlands students were accompanied here by their instructor, Larry Harvill, who is chairman of the university's department of engineering.

Changes made in issue, renewal of ID cards for dependents of military personnel

Changes affecting issue and renewal of dependent identification cards and ID cards for retired people and reservists are taking place.

Highlights of these changes are requirements for more frequent renewal of dependents' ID cards, and a "new look" for retired and reserve IDs.

As current retired and reserve ID cards expire, they will be replaced with new versions. New ID cards for retired personnel will be blue instead of grey. New IDs for reservists will remain red, and Geneva Convention information will be added. Neither of the new cards will show fingerprints.

Some principal points in new Department of Defense directives on ID cards are:

(1) ID cards for retired members will be renewable at any service's personnel activity, regardless of the member's previous service branch.

(2) Active duty dependents' IDs will be valid for a maximum of three years.

(3) Dependents of retirees and deceased members will renew their IDs every three years.

Course scheduled on how to manage work-related stress

Applications are being taken for enrollment in a course entitled Managing Stress in Business and Professional Life that will held here from 8:30 a.m. to 4 p.m. on March 4.

During the workshop, which is to be led by Dr. John Fry, a management consultant, attention will be focused on skill building and practical information, instead of theories about what causes stress.

The purpose of the workshop is to train participants in the skills needed to control their own level of tension in spite of external pressures. Increasing skills in dealing effectively with commonly encountered stresses in the business world so that productivity and satisfaction are enhanced is another of the aims of the workshop.

Employees interested in attending must submit a training request and authorization form via proper department channels in time for it to reach Code 094 no later than Feb. 19.

Animal control activities at China Lake decreased in most categories

Animal control activities in the residential areas of the Naval Weapons Center decreased during 1979 (compared to 1978) in all except one of the categories reported, according to information received from the NWC Safety and Security Department.

The lone exception to the general rule was the increase in number of animals found dead, which climbed from 36 in 1978 to 75 for calendar year 1979.

The comparison between animal control statistics for 1978 and '79 reveals that the number of dogs impounded by the Indian Wells Valley animal control officer dropped from 467 to 390. Of this number, 126 were subsequently released to their owners or adopted last year compared to 181 in 1978.

The number of dogs and cats picked up at China Lake that were destroyed in 1979 totalled 381, which is down from the total of 466 put to death in 1977.

There were fewer cats impounded (106) in 1979 than during 1978 when the number totalled 142.

Calls by China Lakers requesting the assistance of the animal control officer were down correspondingly from 468 in 1978 to 393 in 1979.

In addition to the fact that the population at China Lake is decreasing as more and more persons move to Ridgecrest or other nearby areas, the decrease in animal control problems on the Center also is attributable to the activities of those involved in the Indian Wells Valley Spay and Neuter Program.

Through the volunteer fund-raising efforts of those concerned about alleviating the pet population explosion, money has become available to rebate half the cost of spaying or neutering pets — up to a maximum of \$25 per animal. Those who wish to claim such a rebate should bring a receipt from either a veterinarian or a public clinic to the animal shelter (located on the SNORT road at China Lake) and get on the waiting list for a partial refund.

Prior to the start of the Spay and Neuter Program, the number of dogs and cats handled at the local animal shelter nearly doubled — increasing from 1,925 in 1970 to 3,791 in 1975.

Since the Spay and Neuter Program was started, there has been a decline of more than 38 percent in the number of animals brought to the local shelter, with the most notable decrease being reported in 1979.

A part of this latest decrease is due in part, however, to the fact that the Animal Control Division of the Ridgecrest Police Department experienced a shortage of vehicles for animal control work in 1978-79, when some vehicles wore out and others were out of action due to the need for maintenance work to keep them in operation.

China Lakers with animal control problems on weekdays from 8 a.m. to 5 p.m. can leave a message at the Ridgecrest Police Station by calling 375-5044.

After regular working hours, on weekends or holidays, China Lake residents wishing to report animal control problems can do so by calling the China Lake Police Division on NWC ext. 3323.

During 1979, involvement of China Lake police in handling animal control problems resulted in 20 reports of dog or cat bites. This was a decrease from 27 in 1978. In addition, China Lake police received 35 reports of dogs creating a nuisance by barking, running loose, or creating unsanitary conditions in 1979, compared to 37 in 1978.

During 1979, China Lake police picked up 24 stray or abandoned cats and dogs. Warning letters concerning non-compliance with the Center's Animal and Pet Control Instruction (No. 5820.3F) were sent to 59 residents by the Community Liaison Assistant (Code 0032) in 1979 — 10 fewer than during the previous year.

As a reminder to all dog owners residing on Center, all dogs over 4 months old are to be licensed once a year in compliance with the Kern County ordinance. The license fee for spayed or neutered animals is just \$1 compared to a \$4 fee for other canine pets.

February proclaimed as Afro-American History Month here

February has been proclaimed Afro-American History Month in the Indian Wells Valley in a joint proclamation signed by Capt. William B. Haff, NWC Commander, and Don Chizey, Mayor of Ridgecrest.

The primary observance of the role and contributions of Afro-Americans in the history of the United States will take place in the schools. The music departments of the schools will be emphasizing Afro-American music in the classes, and other classes will prepare skits depicting various aspects of Afro-American culture and the roles of such past and present leaders as Frederick Douglass, Harriet Tubman, Martin Luther King, Jr., and Whitney Young.

Spearheading the observance of Afro-American History Month will be the Human Relations Committee of the Desert Area Teachers Association and the Indian Wells Valley Chapter of the National Association for the Advancement of Colored People.

Speakers from both groups will be available to talk to organizations and clubs in the Indian Wells Valley.

Afro-American History month has been observed in many American communities since 1926. February is the traditional month for this observance because it includes the birthdays of three champions of liberty and equality, George Washington, Frederick Douglass, and Abraham Lincoln.

Immunization clinic set Monday in Ridgecrest

Another opportunity will be provided for infants and children who are not yet fully protected against common childhood diseases to obtain shots free of charge at a Kern County Health Department immunization clinic.

The next such public clinic to be held in the local area has been scheduled on Monday from 9 a.m. to 3 p.m. in the Health Department office located at 250 W. Ridgecrest Blvd., Ridgecrest.



NOVEL AWARD PRESENTED — Dr. Peggy Rogers was the astonished recipient of the "Weathered Wood Award," presented to her at Monday morning's Commander's meeting by Bob Hillyer, NWC Technical Director. The award consisted of a chunk of wood from the legs of the safety sign that had been located behind the bushes adjacent to the traffic circle. As the bushes grew, the sign became increasingly difficult for motorists to read safely while circumnavigating the circle. Dr. Rogers had repeatedly reminded NWC Commanders about the need for either raising the sign or lowering the bushes. During a recent windstorm, the problem was eliminated because the sign was blown down. A letter accompanying the wooden plaque noted that "It was very impressive that you were able to speed up the (sign's) moving process by enlisting the aid of forces of nature..."