



SEEKING HEAVENLY ADVICE — In a scene from CLOTA's production of the popular Rodgers and Hammerstein musical, "The Sound of Music," (l.-r.) Sister Sophia (Jean Bormett), Mother Abbess (Barbara Auld), Sister Berthe (Carol Sue McKenzie) and Sister Margaretta (Rita Dove) seek help from above in finding a way to "solve the problem of Maria." The popular musical ends its run this weekend with performances tonight and tomorrow night at 7:30 at the Burroughs High School lecture center. Tickets, priced at \$5 general admission, and \$4.50 for students, senior citizens and enlisted military, can be purchased at the NWC Community Center, several Ridgecrest businesses and at the lecture center box office. — Photo by PHAN Greg Hogan

Varied events scheduled during Hispanic Heritage Week at NWC

Plans for the Naval Weapons Center's celebration of Hispanic Heritage Week (Sept. 9 through 16) include a luncheon talk by Dr. Franklin Chang-Diaz, a NASA astronaut; a workshop conducted by Dr. Phillip Paris of Cal-State Bakersfield; a Sister City Spanish-speaking luncheon; a film festival; and a dance sponsored by Los Amigos Hispanos.

Dr. Paris, chairman of the Department of Public Policy and Administration at Cal-State Bakersfield, will discuss "Mexico: Implications for the United States and the Southwest at Century's End" in his workshop that will be held from 8 to 11 a.m. on Wednesday, Sept. 13.

Participants in the workshop will learn of

the historical development of the Mexican American role in the Southwest, and the contemporary trends and realities of the expanded role of Spanish speaking peoples in the United States. In addition to gaining a better understanding of the implications of this role for the future, they will also gain a practical insight to some supervisory techniques relating to Hispanics in the work force.

Advance registration is required for the workshop. A Training Request and Authorization form must be submitted through department channels in order to reach Code 094 no later than Aug. 28.

Dr. Chang-Diaz will be the guest speaker for the EEO luncheon to be held at the Enlisted Mess on Thursday, Sept. 13. He will be a mission specialist on a future Space Shuttle mission.

Advance reservations are also required for the luncheon, which will be held from 11 a.m. until 1 p.m. The menu includes tamales, enchiladas, rice, beans, salad, and either coffee or iced tea for \$5. Reservations may be made by telephoning the Program Coordinator's Office at NWC ext. 2634.

Luncheon to honor long-term training grads slated Aug. 24

Everyone is invited to attend a luncheon honoring Fiscal Year 84 graduates of long term training programs that is scheduled on Friday, Aug. 24, from 11:30 a.m. to 1 p.m. at the Commissioned Officers' Mess.

The luncheon pays recognition to graduates of Business Administration, Computer Science, Electrical Engineering, and Fellowship and Cooperative Education programs.

Menu choices for the affair are chef salad, \$5, or chopped sirloin lyonnaise, \$5.50.

Speakers for the occasion will be Burrell Hays, NWC Technical Director; Dr. Harry Kelsey, from Cal-State Bakersfield; Dr. Dennis Hefner, from Cal-State Chico; Dr. A. F. Ratcliffe, from Cal-State Northridge; and Roe Darnell, academic dean of Cerro Coso Community College.

Reservations are necessary, and must be made no later than Monday. To place a reservation, and make a menu selection, telephone NWC ext. 2634.

Fishing gear on sale

The Navy Exchange Mini-Mart, located within the NEX store facility, has just received a new stock of fishing gear. Now available are new poles, reels, tackle, and live bait to provide any type of equipment needed to catch fish. Also, fishing licenses can still be purchased at the personalized service center counter in the NEX.

Donations for library development program sought by Cerro Coso

Cerro Coso Community College is currently asking for contributions to its "Bucks for Books" library development program.

Financial support for this program will be used when Cerro Coso College submits its application for a National Endowment for the Humanities challenge grant that would provide matching funds on a three to one basis to the college, Raymond McCue, president of Cerro Coso College, said.

Within the past few weeks, Cerro Coso Community College has received generous donations from the Ridgecrest Kiwanis Club, in commemoration of the club's 25th anniversary of service to the Indian Wells Valley, and from a very thoughtful college student who contributed \$300 intended for the purchase of library items and other materials used in the study of the humanities.

The college would appreciate any donations and invites its supporters to contact the Office of Information, Development, and Alumni Relations, by calling 375-5001, and asking for extension 231, or by writing to the college at 3000 College Heights Blvd., Ridgecrest, Ca. 93555.

Maturango Museum schedules camp out at Bristlecone Pines

The Maturango Museum will host its annual overnight camping trip to the Bristlecone Pines, located in the White Mountains overlooking Owens Valley, on Aug. 25 and 26.

Participants may camp out Saturday night at Grandview Campground or may get a motel room in Big Pine. For those who elect to camp out, a campfire program will be presented at 8 p.m.

Participants in the tour will meet the tour leader on Sunday, Aug. 26, at 10 a.m. in the Schulman Grove visitor center.

Reservations, which are required, may be arranged by calling the Maturango Museum, phone 446-6900.

WACOM Thrift Shop \$1-a-bag sale set during coming week

The Thrift Shop, sponsored by the Women's Auxiliary of the Commissioned Officers' Mess (WACOM), has scheduled a \$1-a-bag sale next week.

On Tuesday evening from 7 to 9 o'clock, and on Thursday from 10:30 a.m. to 12:30 p.m., the Thrift Shop will be open for those wishing to shop for bargains.

Following the sale, the Thrift Shop will be closed for two weeks in order to refurbish the building, which is located on Lauritsen Road, across the street from Schoeffel Field.

WACOM members are looking forward to better serving Thrift Shop customers when the shop reopens its doors on Tuesday, Sept. 11.

Tel-Med tape of week

Experiencing chest pains, or know someone who is? They aren't always caused by a heart attack. To find out about other causes of chest pains, call Tel-Med, phone 446-3541, and request tape number 65.



A dinner special of steak and shrimp will be served at the Enlisted Mess tonight from 6 to 9 o'clock. Following dinner, Steve Miles, a local entertainer, will be playing records or tapes for EM patrons and their guests, who wish to stay and listen or dance to disco music from 9 p.m. to 1:30 a.m.

On Saturday night, porterhouse steak will be the dining special served by the EM staff from 6 to 8:30 p.m.

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The Chief Petty Officers' Mess (CPOM) will offer entertainment for members and their guest tonight following dinner with the country western sounds of the "Western Connection." The popular combo will play from 8:30 p.m. to 12:30. Prior to the start of the evening's entertainment, a dinner special of whitefish or prime rib of beef will be served from 6 to 9 p.m.

Tomorrow evening, the CPOM will be open again for dinner from 6 to 8:30 p.m. Patrons may select their choice of entree from the menu.

MOVIES

Regular starting time 7:00 p.m.

FRIDAY	AUGUST 17
"LOOKING TO GET OUT" Starring Jon Voight and Ann Margaret (Comedy-Drama, rated R, 106 min.)	
SATURDAY	AUGUST 18
"TENDER MERCIES" Starring Robert Duvall and Tess Harper (Drama, rated PG, 84 min.)	
SUNDAY	AUGUST 19
"THE RIGHT STUFF" Starring Scott Glenn and Ed Harris (Drama, rated PG, 193 min.)	
MONDAY	AUGUST 20
"THE FINAL OPTION" Starring Lewis Collins and Judy Davis (Action-Drama, rated R, 125 min.)	
TUESDAY	AUGUST 21
MATEEN 2 p.m. "THE FOX AND THE HOUND" (Animation, rated G, 110 min.)	
WEDNESDAY	AUGUST 22
"THE SWORD OF THE BARBARIANS" Starring Peter McCoy and Yvonne Frachetti (Action-Adventure, rated R, 89 min.)	
THURSDAY	AUGUST 23
MATEEN 2 p.m. "THE LAST UNICORN" (Animation, rated G, 84 min.)	
FRIDAY	AUGUST 24
"FRANCES" Starring Jessica Lange and Sam Shepard (Drama, rated R, 140 min.)	

'Ridgecrest Has It All Day' slated at fairgrounds Aug. 25

The Ridgecrest Chamber of Commerce, in conjunction with the Indian Wells Valley Council of Organizations, will present "Ridgecrest Has It All Day" in Joshua Hall at the Desert Empire Fairgrounds on Saturday, Aug. 25.

The event will focus on the activities offered by various clubs, non-profit organizations, and social groups functioning in Ridgecrest.

Booth spaces are still available to rent for a nominal charge to organizations interested in taking part in this event. There are a limited number of spaces, so early registration is recommended.

For more information, contact the Ridgecrest Chamber of Commerce by calling 375-8331.

Solar Park is site for family barbecue next Friday, Aug. 24

An old-fashioned family barbecue will be sponsored by the Recreation Services Department on Friday, Aug. 24, from 5 to 10 p.m. Site for the fun, alcohol-free event will be the Enlisted Mess pool and Solar Park.

All ages are invited to attend. Each should bring a picnic supper, and grills will be available for anyone who wants to make that picnic into a barbecue.

Water games and other games are planned throughout the evening. There is no fee for attending the barbecue and playing the scheduled games.

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From: _____

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To: _____



August 17, 1984
Vol. XXXIX, No. 33
NAVAL WEAPONS CENTER
CHINA LAKE
CALIFORNIA

Australian Air Force detachment visits desert area for testing of Harpoon anti-ship missile

Not all of the visitors from foreign countries who were in southern California this summer came for the Olympic Games. Right here at China Lake a detachment from the Royal Australian Air Force (RAAF) recently took part in testing that involved the Harpoon anti-ship missile.

Aboard the Center were personnel of the Aircraft Research Development Unit (ARDU), which is a squadron of the RAAF based in Edinburgh, South Australia. Of the nearly 250 people that comprise ARDU, four-fifths are servicemen; the others were civilian engineers and design staff. ARDU's mission, like that of NWC, is research, development, test, and evaluation, although on a much smaller scale.

The visiting military detachment consisted of five officers and 13 crew members. An additional four men, Bruce McDonald, Bernie Chandler, Ian Shakes, and Viv Crouch, all Australian engineers, accompanied the servicemen from their homeland.

Squadron Leader Bob Howard, the detachment commander, is ARDU's F-111-C Flight Test Project Manager and was one of the test pilots for this mission.

The other test pilot, SqLdr. Harry Bradford, was the deputy detachment commander; he assisted SqLdr. Howard with the day to day management of detachment activities.

Charged with overseeing the loading and unloading of ordnance was Flying Officer Andrew Hayden, the detachment's armament officer.

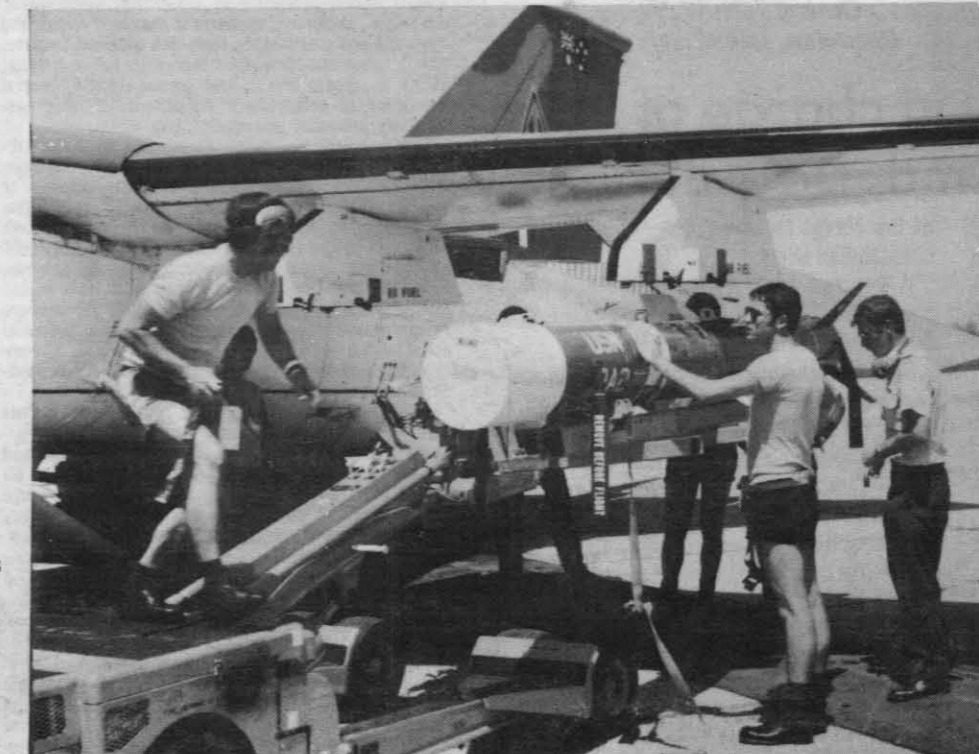
Data reduction and analysis were the re-

sponsibility of Flight Lt. Dan Newman, the test engineer for the project, while FLLt. Peter Morrell, the maintenance officer, oversaw 13 enlisted men responsible for aircraft maintenance.

They were Sgt. D. W. Wright, Sgt. M. G. McPhillips, Sgt. C. J. Porteus, Sgt. B. A.

Macklin, Cpl. D. S. John, Cpl. R. (NMI) Peel, Cpl. K. G. McLeod, and Cpl. A. D. Henry.

The rest of the crew included Cpl. M. B. Goodwin, LCpl. L. A. Hansen, LCpl. F. (NMI) Pacor, LCpl. J. K. McKeveit, and LCpl. Z. (NMI) Golubovic.



LOADING TEST VEHICLE — Members of the Royal Australian Air Force load a prototype aerodynamic test vehicle onto an Australian F-111-C aircraft. Sgt. Brian Macklin (at left) comes around the front of the PATV-2 to assist LCpl. Phil Pacor, while Flying Officer Andrew Hayden, the detachment's armament officer, checks to make sure that the loading process is done properly.

Technical Director Award

Leroy Stayton honored for his outstanding work on behalf of Navy Strategic Systems Program Office

The NWC Technical Director's Award, in recognition of his outstanding performance as the primary leader and coordinator of work performed here for the Navy Strategic Systems Program Office (SSPO),

was presented recently to LeRoy M. Stayton.

The presentation was made by B. W. Hays during a ceremony held in Research Department office. On hand for the occa-

sion were Col. John T. Tyler, acting NWC Commander, who is the Deputy Laboratory Director and head of the Marine Corps Liaison Office; Dr. Ed Royce, head of the Research Department; Dr. Ron Derr, head of Engineering Sciences Division in Code 38, and a number of Stayton's co-workers and friends.

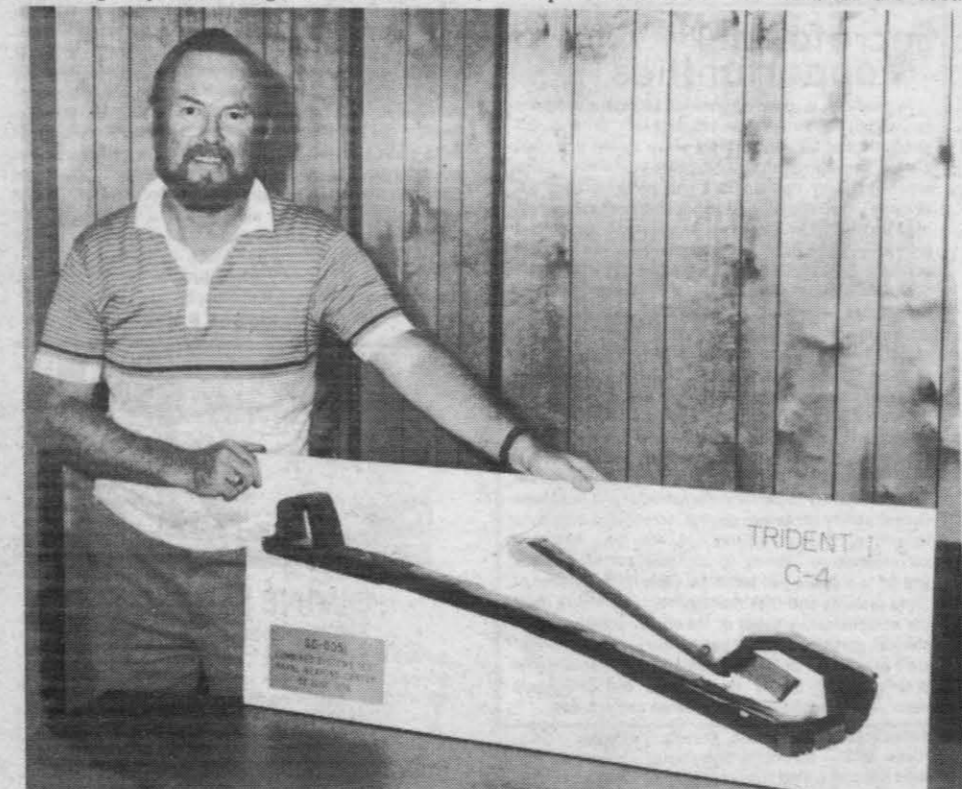
"There are both technical benefits and mission-oriented benefits," Hays said, as he presented the Technical Director Award to Stayton. The latter is a key member of the management team responsible for definition and support for the Trident motor test facilities now under construction at NWC, and has contributed to a better understanding of the Trident propellant system, Hays added.

Stayton, who was surprised by the honor bestowed upon him, was quick to attribute any success he's had to the freedom he's had while working at NWC. "I've never felt hampered in doing what I felt needed to be done and that, coupled with the quality of people with whom I've worked, has produced the desired results.

"This effort has convinced the Navy Strategic Systems Program Office that NWC is a laboratory that can be relied on," the honoree commented.

Stayton received an engraved paperweight, a letter of commendation and a stipend that accompanies this special form of a Superior Achievement Award.

Employed at China Lake since June 1958, when he began a year-long Junior Professional tour, Stayton is now a senior



TECH DIRECTOR AWARD RECIPIENT — LeRoy M. Stayton, latest recipient of the NWC Technical Director's Award, examines a cross section of the second stage of a Trident I (C-4) nozzle that he has mounted in his office. This is a souvenir of a combined systems test of a motor fired at NWC. The combined systems test is the final checkout of all flight systems before a missile undergoes its first flight test.

When the Australians first made plans to travel to the United States, the Pacific Missile Test Center (PMTC), Point Mugu, was the site chosen for tests. Accommodations, however, were not available at PMTC for the Australian contingent. Because China Lake had been one of the primary choices for a test site, and was so close to the PMTC ranges where the testing was to be conducted, it was decided that the Center would provide aircraft maintenance support and housing for the Australians.

The officers, crew, and engineers were ferried here on a C-130 Hercules (with a necessary layover in Hawaii) while two operational aircrew members flew the F-111-C to the U.S. as a training mission.

The men from down under were here as part of the Foreign Military Sales program that enables allied countries to participate in the United States defense program and to purchase weapons.

The Australian government recently asked the U.S. if it could test certain aspects of the Harpoon missile, since it is their intention to introduce it to the Australian Strike Force.

The McDonnell Douglas Aeronautics Co., which builds the Harpoon missile, also built

Changes in Civil Service, military retirement made

Certain changes which affect the retirement pay of military and Civil Service employees are now law.

The Deficit Reduction Act of 1984 (Public Law 93-369), signed by President Reagan on July 18, is divided into two sub parts: The Tax Reform Act of 1984 and the Spending Reduction Act of 1984.

The Spending Reduction Act incorporates changes to military and Civil Service retirement programs and to Social Security coverage.

Military retirees will now find they will receive their monthly annuity checks on the first business day of each succeeding month. Previously, government retainer checks were paid to retirees on the last calendar day of each month.

The annual cost-of-living increase paid to military and Civil Service retirees is a subject of constant concern. For military retirees who are also employed by the Civil Service, the law repeals the reduction in civilian pay for cost-of-living adjustments to uniformed service retainer checks. This repeal was effective with the first pay period beginning after July 18, 1984.

Another aspect of the law governs military service members (discharged or retired) who enter into Civil Service employment, and temporary Civil Service employees who augment to permanent positions. They are now covered under Social Security.

Along with Social Security, these individuals will also be covered, temporarily, under a special retirement program with a reduced employee contribution rate. By Jan. 1, 1986, it is expected that a new retirement system will be established to supplement Social Security coverage.

Excluded from this provision are those employees who return to Civil Service after a break in service of no more than one year or those who return to Civil Service after temporary military or reserve duty with reemployment rights.

(Continued on Page 4)

Your vote counts, if it's cast

Every four years we as U.S. citizens have an opportunity to elect a president and other national leaders. Men and women in the military service should have a special interest in our electoral process since this is one of the basic freedoms they have pledged to defend.

Like 74,000,000 other Americans, more than half of our citizens in uniform did not vote in 1980. Many thought their vote wouldn't make a difference or they thought none of the candidates deserved their vote.

If you do not vote, somebody else will make decisions for you. It is important that each of you participate in the election process. Our president and members of congress, state and local officials, all make decisions that affect each of you. Don't let somebody else select these leaders for you.

Commanders at every level of command have been directed to provide assistance to each of you to be sure that you have the opportunity to vote. Many states have changed their procedures to make it easier for you to vote. Each military unit has a voting assistance officer or counselor to assist you in the voting process. If you don't know who to go to for help, ask your commander.

You must act to vote. No one can make you vote. A number of elections are decided by a few votes. Your vote does count. It can make a difference. Be sure you participate and vote.

Casper W. Weinberger
Secretary of Defense

General John W. Vessey, Jr.
Chairman, Joint Chiefs of Staff

AGC Arnold now in charge of Oceanography Cmd. Detachment

In a recent ceremony at the Naval Oceanography Command Detachment (Code 92), Aerographer's Mate Chief Mark Arnold relieved Chief R. L. Braddock and took over as Chief Petty Officer in Charge of the detachment.

Chief Braddock transferred to the USS Tarawa, homeported in San Diego.

Chief Arnold comes to China Lake following a tour of duty with the Commander, 7th Fleet Staff with an interim stop at North Island, San Diego. While assigned to COM 7th Fleet as the assistant meteorologist, he was stationed aboard the USS Blue Ridge, homeported in Yokosuka, Japan. He held the title of Operations Chief during his stay

at the Naval Oceanography Command Facility in San Diego.

A veteran of 22 years of service in the Navy, Chief Arnold reported to China Lake for a three-year tour of duty.

Some of his unusual hobbies include stone carving and metal smithing. In addition, he is an avid photographer.

Accompanying him to China Lake are his wife, Linda, and their two daughters, Collene, 18, and Vicki, 13.

Having lived in Central Idaho for much of his young life, Chief Arnold is very fond of the desert. "I fought to get here...I love it up here," was his response when asked what he thought of China Lake.



CHANGE OF COMMAND—Aerographer's Mate Chief Mark Arnold (at right) relieves Chief R. L. Braddock at the Naval Oceanography Command Detachment's recent change of command ceremony at Hanaar 3. Photo by PH3 Rick Moore

Promotional opportunities

Applications (Standard Form 171) should be in the drop box at the Reception Desk of the Personnel Dept 505 Blandy. Unless otherwise specified in an ad, applications for positions listed in this column will be accepted from current permanent NWC employees only. All others desiring employment at NWC may contact the Employment Wage & Classification Division, Code 092 Ext. 2284. Ads will run for one week and will close at 4:30 p.m. on the Friday following their appearance in this column, unless a later date is specified in the ad. Advertising positions in the Promotional Opportunities column does not preclude the use of alternative recruiting sources in filling these positions. The filling of these positions through Merit Promotion is subject to the requirements of the DoD Program for the Stability of Civilian Employment. The minimum qualification requirements for all GS positions and positions subject to the Demonstration Project are those defined in OPM Handbook 1-118; those for all wage system positions are those defined in OPM Handbook C-118C. Applicants will be evaluated on the basis of experience, training, education, and awards. Candidates will be interviewed on the basis of a written record consisting of a SF-171, at least one supervisory appraisal, if it can be obtained, and any tests, medical examinations, interviews, and supplemental qualifications requirements that may be necessary. For managerial/supervisory positions, consideration will be given to applicant's support of the Equal Employment Opportunity programs and objectives. Applicants must meet time in grade and qualifications requirements by the closing date of the ad. The Naval Weapons Center is an Equal Opportunity Employer; selections are made without discrimination for any nonmerit reason.

Announcement No. 26-089, Supply Clerk, GS-0063-3 Code 2611 — Temporary appointment NTE 1 year. May become permanent. Screens and processes a variety of procurement documents. Works with Supply Department to insure required materials are available when necessary. Job Relevant Criteria: Knowledge of both Supply and Public Works organization and functions; ability to work under pressure; ability to deal with people from all organizational levels. Promotion potential to GS-5.

Announcement No. 26-088, Automotive Transportation Specialist, DA-2150-2, Code 269 Detail NTE 1 yr. assignment. May become permanent. Incumbent completes information, maintains records, and prepares special reports pertaining to acquisition, procurement, disposition, utilization, assignment, loan and rental, and operating and maintenance costs. Job Relevant Criteria: Ability to communicate effectively orally and in writing; ability to prepare and analyze special reports; general knowledge of procurement regulations. If filled permanently, promotion potential is DA-2.

Announcement No. 26-091, Electronics Engineer, DP-854-2, Code 269 As the Avionics/Software Engineer, incumbent provides technical coordination in areas of avionics, guidance and control, and software. Responsible for planning and scheduling work, and coordinating tasks performed by the functional codes supporting ASWS/W analysis and system studies. Job Relevant Criteria: Practical experience and technical background in guided missile systems development; knowledge of software standards and practices; ability to evaluate technical plans leading to hardware development; ability to communicate orally and in writing. Previous applicants need not reapply.

Announcement No. 26-054, Clerk-Typist, GS-322-3, Code 391 — Performs clerical duties for the Sensors and Platforms Branch staff half day and Systems Integration and Evaluation Branch staff half day. Duties include all aspects of clerical duties (i.e. typing, travel orders, phone call, visitors, and travel.) Job Relevant Criteria: Ability to perform receptionist and telephone duties; to review, control, screen and distribute incoming mail; to review outgoing correspondence and/or prepare non-technical reports; knowledge of filing systems and files management; ability to plan and coordinate travel arrangements. Status eligible.

Announcement No. 26-038, Interdisciplinary (General Engineer/Electronics Engineer/Computer Scientist/Mathematician), DP-801/855/1550/1520-2/3, (2 vacancies), Code 394 — The branch is responsible for supporting the Weapons Department and systems program managers in design for the Sidewinder AIM-9M PIP computers. Responsible for assisting in development of the missile's flight software. Will subsequently participate in design, development and test of new flight software for the AIM-9M PIP. Responsible for interfacing with hardware designers and working as a team on software design, modeling, testing, coding and system analysis. Job Relevant Criteria: Knowledge of embedded computers for tactical systems; ability to plan, schedule and coordinate technical work as part of a major project; experience in HDL programming with some experience in coding the 68000 preferred; ability to communicate well orally and in writing; experience in formalized real time software engineering design and development and with software design and coding. Previous applicants need not reapply.

Announcement No. 26-039, Electronics Engineer, DP-855-2/3, (5 vacancies), Code 394 — Primary duties are to provide support in signal processing and electronic systems engineering in support of the Sidewinder AIM-9M PIP program. Works directly on analog and/or digital circuitry design. Job Relevant Criteria: Knowledge of electronic design principles and practices; ability to in-

Secretarial opportunities
This column is used to announce secretary positions for which the duties and job relevant criteria are generally similar. Secretaries serve as the principal clerical and administrative support in the designated organization by coordinating and carrying out such activities. Secretaries perform numerous tasks which may be dissimilar. Positions at lower grades consist primarily of clerical and procedural duties and, as positions increase in grades, administrative functions become predominant. At the highest levels, secretaries apply a considerable knowledge of organization, its objectives and lines of communication. Depending on grade level, typical secretary duties are implied by the job relevant criteria indicated below.
Unless otherwise indicated, applicants will be rated against the job relevant criteria indicated below. A supplemental form is required and may be obtained at Room 100 in the Personnel Building. Job Relevant Criteria: Ability to perform receptionist and telephone duties; ability to review, control, screen and distribute incoming mail; ability to review outgoing correspondence; ability to prepare non-technical reports; knowledge of filing systems and files management; ability to meet the administrative needs of the office; ability to train clerical personnel and organize work load of clerical staff; ability to plan and coordinate travel arrangements; ability to maintain and coordinate supervisor's calendar and to arrange conferences.

Announcement No. 26-104, Secretary (Typing), GS-313-4, Code 3823 — Provides secretarial support to Head, Missile Support & Test Branch. Promotion potential: GS-5.
Announcement No. 26-085, Secretary (Typing), GS-313-4/5, Code 384 — Provides secretarial support to the Maintenance Utilities Division. Status eligible.
Announcement No. C-64-12, Secretary (Typing), GS-313-4/5, Code 6411.
Announcement No. 26-045, Secretary (Typing), GS-313-5, PD No. 843906N, Code 3925. Incumbent provides secretarial support. Previous applicants need not reapply.

The Rocketeer

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China Lake

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NWC Commander

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Phones 2354, 2355



Bob Keen
VX-5 golfer nabs 2nd place in golf tourney senior div.

Bob Keen, quality assurance chief for Air Test and Evaluation Five (VX-5), returned home from San Diego last Friday with a second place trophy to show for his efforts competing in the Senior Division (40 years of age and over) of the Southern Pacific Sports Conference golf championship.

Keen, who was the defending champion in this event, fired a 72-hole total of 324 by posting 18-hole rounds of 79, 84, 84, and 77. First place in the Senior Division was won by Lt. Col. Bill Wiley, of the Naval Station, Long Beach, who had a total score of 316 for the tournament.

Keen, who has been playing golf for approximately 12 years, picked up a third place in the Northern Pacific Sports Conference golf tourney six years ago when he was stationed at the Naval Air Station, Whidbey Island, Wash.

There were more than 20 golfers entered last week in the Senior Division of the Southern Pacific Sports Conference golf championship at San Diego, while the open division attracted a field of more than 30. Included in the latter was Russ Malone, of NWC, who made the initial cut, but then finished somewhere around the middle of the pack in the finals.

Fishing reported slow at Lake Isabella due to warm water

The warm, summer weather has put a serious crimp in fishing success at Lake Isabella.

According to Bob Mahon, a Department of Fish and Game warden assigned to that area, fishing is poor because of the warm temperature of the water.

Some blue gill and a few bass are being caught in the shallow water of the lake's south fork area, and a few catfish are being hauled in at night. For what fishing there is, early morning and in the evening are the best times to try, Mahon said. Trout fishing is way off, it was added.

Late afternoon thundershowers have been commonplace in the Kern Plateau area — turning the only fishable waters there (the main branch of the Kern River and its south fork) muddy for a day after the rains.

Lack of water makes for poor fishing conditions in the Kern Plateau area.

More time allowed for lap swimming at pool

The NWC Recreation Services Department has announced a change in the hours for lap swimming at the indoor pool, in the Center gym.

Effective on Monday, Aug. 20, the hours for lap swimming will be Monday through Friday, from 6 to 7:30 a.m. and 10 a.m. to 1 p.m.; Saturday from 11 a.m. until noon; and Sunday from noon until 1 p.m.

The change of hours was made to increase the availability of the swimming pool during the noon hour on week days, and to ease any crowding now experienced by lap swimmers at the indoor pool.

Scorpions to play West German soccer team

The Scorpions Soccer Club of Ridgecrest is in the midst of hosting a visit by a youth soccer team from Hannover, West Germany.

Highlight of the visit for the 14- to 16-year-old youths from West Germany who make up the Arminia Hannover Club will be a soccer game that will get underway this evening at 6:30 at Davidove Field on the Naval Weapons Center, and participation tomorrow in a mini-tournament that is scheduled to begin at 8:30 a.m. — also at Davidove Field.

In addition to the Scorpions and the West German team, the Lamont Raiders and the Hesperia Scorpions will compete in the tourney on Saturday. The tentative schedule for this event is as follows:

8:30 a.m. — Lamont Raiders vs. Arminia-Hannover; 9:30 a.m., Hesperia Scorpions vs. Arminia-Hannover; 10:30 a.m. — Ridgecrest Scorpions vs. Lamont Raiders; 11:30 a.m. — Hesperia Scorpions vs. Ridgecrest Scorpions.

Following an hour-long lunch break at McBride Park, the tourney will resume with a 1:30 p.m. game between the Lamont Raiders and the Hesperia Scorpions, and the day's final action will be a contest, starting at 2:30 p.m., between the Ridgecrest Scorpions and Arminia Hannover.

The West German youths arrived on Wednesday afternoon, were housed at the homes of players for the Ridgecrest Scorpions, and the two teams engaged in a scrimmage on Thursday evening in preparation for their head-to-head match this evening and the tournament competition tomorrow.

While in the local area the West German youths will be taken on a tour of the National Aeronautics and Space Administra-

Aussies vs. Navy...

(Continued from Page 6)

Richard Williams, and Danny Wittenberg. Since volleyball is a popular sport in both countries, the games were close and action-packed. Phil Pacor, a young Australian, did a fine job of defending the front line, and was an asset on offense as well. He spent a major part of his time spiking the ball into the NWC court. Standouts for the NWC team were Armstrong and Wittenberg, both of whom were successful in several of their blocks and spikes.

Fine sportsmanship and attitudes were evident during the match, and the teamwork, in spite of the lack of practice, was excellent. In the volleyball event, the Aussies dropped the first game by a close score of 16-14, but got back on their feet and won the remaining three games by scores of 17-15, 15-7, 15-7.

— By Patty Vick



CAREFUL AIM — Concentrating on delivering a ball to another of his countrymen is Harry Bradford, one of the Australian crew who challenged NWC personnel to several sporting events. The heat proved to be too much for everyone involved in the cricket contest, and the "game" instead became a demonstration of the sport. — Photo by PHAN Greg Hogan

tion's Dryden Flight Center at Edwards Air Force Base, and also will visit Whitney Ports, gateway to the highest mountain peak in the continental U.S.

In addition, swimming pool parties for the visitors are planned at the Commissioned Officers' Mess pool at NWC, as well

Cerro Coso College offers varied courses in PE this semester

The physically active will find a varied selection of physical education courses offered this fall semester by the P.E. department of Cerro Coso Community College. The new semester begins classes on Monday.

Beginning Aerobics, a one-unit class taught by Bill Locke, will meet on Mondays and Wednesdays from 8 to 9 a.m. The course will cover the theory and practice of jogging, including a planned fitness program for each student in the class.

Beginning Aerobic Dance will be offered in two sessions — the first will meet on Monday and Wednesday afternoons from 4:30 to 5:30, while the second is scheduled on Tuesdays and Thursdays from 10:30 to 11:30 a.m.

Other physical education courses, in addition to aerobics and aerobic dance, offered during the fall semester include beginning, intermediate, or advanced sessions of golf, general conditioning, swimming, tennis, volleyball, weight training, physical fitness, and an intercollegiate basketball program.

Promotional opportunities

(Continued from Page 2)

Announcement No. 31-004, Electronic Engineer, DP-855-2, Code 3144 — Serves as the F/A-18 Stores Management System SIMS Software Engineer and responsible for the coordination of the development, verification, validation and documentation of the F/A-18 Stores Management System (OPF). Job Relevant Criteria: Knowledge of Stores Management Systems/Armament Systems/8080 Assembly Language; software verification and validation; and good programming practices and documentation standards; ability to work well with others and the ability to communicate effectively both orally and in writing. Previous applicants need not reapply.

Announcement No. 36-153, Interdisciplinary Mechanical/Electronics/Industrial Engineer, DP-12, Code 3622 — Reviews drawings and specifications to determine producibility of mechanical, electrical, and optical devices. Reviews production design changes and changes in operational procedures incorporated to eliminate system/equipment deficiencies. Job Relevant Criteria: Knowledge of electronic design principles, servo mechanisms, and manufacturing techniques; ability to review drawings and specifications to determine how change will affect producibility; ability to interface and communicate effectively with personnel at comparable levels in government and private industry. Promotion potential to DP-3.

Announcement No. 36-159, Supervisory Aerospace/Mechanical Engineer, DP-830/861-3/4, Code 3685 — Position is held in the Engineering Branch. Primary functions of the branch are to perform environmental engineering function relative to development and qualification of weapon system hardware; and provide computer services in areas of structural, dynamic and thermal analysis. Job Relevant Criteria: Ability to supervise diverse technical groups; knowledge of environmental engineering and testing; knowledge of full range of production support activities; ability to interface with all levels of commands/offices; and ability to communicate technical concepts both orally and in writing; willingness to support Federal EEO program goals and objectives. Promotion potential to PD-4 must be approved by Center management.

Announcement No. 36-165, Engineering Technician, DT-402-1/2/3, Code 3683 — Ensures that drawing quality, format and correctness are in compliance with NWC, military and DoD Standards. Regular contact with program office personnel, contractors and technical associates is required. Job Relevant Criteria: Ability to understand and apply guidelines and standards (AD PUB 264, DoD-D1000, and DOD-STD-100) for use in preparation of engineering drawings; knowledge in application of geometric dimensioning and tolerancing — ANSI Y14.5M-42 preferred; ANSI Y14.5-73 acceptable; ability to communicate effectively orally and in writing.

Announcement No. C-42-41, Electronics Technician, DT-402-2/3, Code 6251A — Assists the section head in providing overall direction, coordination and management of all facets and functions of the Range Control Center Integration and Processing System (RIPS). Prepares system requirements and specifications and coordinates implementation of associated hardware and software. Performs technical interpretation of technical specifications, and reviews drawings and other technical documents for technical accuracy and completeness. Job Relevant Criteria: Knowledge of NWC ranges, range operating procedures, and range data capabilities; ability to communicate effectively with NWC and contractor personnel, orally and in writing. Status eligible.

Announcement No. C-42-42, Electronics Technician, DT-402-2/3, Code 6251A — Aids in design and development of electronic systems; assists senior technicians with maintenance and operations of computer systems such as computer plotting board equipment; assists with operation, troubleshooting, and maintaining range control systems computers. Code 6251 will transition into the Range Control Center within the next year. The incumbent will then participate in maintenance and operation of the new RIPS computing/display systems.

as at Heritage Village in Ridgecrest.

The 14 West German youths and their coaches also will be dinner guests of the management of El Charro Avitia, Graziano's Pizza and John's Pizza during their stay here.

According to Karl Kauffman, coach of the Ridgecrest Scorpions, tonight's contest will be the 17th game between the Scorpions and a team from some foreign land. This is in accord with the Scorpions' objectives to play the best soccer teams available in their skill range, as well as travel to meet young soccer players from other areas and, in some instances, other countries.

Signups underway for next in series of jazzercise classes

Tammy Williams, local jazzercise instructor, will again be offering her exercise classes during the month of September.

Three classes are scheduled to meet at the Youth Center, the first two will run from Sept. 3 to 26 on Mondays and Wednesdays from 5 to 6 p.m. or from 6:30 to 7:30 p.m.

The third class will meet from Sept. 4 to 27 on Tuesdays and Thursdays from 5:30 to 6:30 p.m.

There is a registration fee of \$16 per person for attending the various month-long sessions of the jazzercise classes. The fee is payable at the Center gym office prior to the start of the classes.



Next hunter safety class starts Aug. 25; registration open

Next Tuesday, Aug. 21, is the last day for prospective students to register for the Hunter Safety Class being offered by the Sierra Desert Gun Club.

The class will be taught on the weekend of Aug. 25 and 26 between the hours of 8 a.m. and 3:30 p.m. on both days.

A fee of \$10 will be required at the time of registration, which will be handled at a table set up in the lobby of the Ridgecrest Police Station.

Registration also will take place tomorrow from 9 a.m. to 1 p.m. and again on the following Tuesday from 7 to 9 p.m. Once a student completes the training course, \$8 of the registration fee will be refunded.

California law requires that all first-time purchasers of a hunting license receive training in firearms and archery safety, sportmanship, game management, and conservation from a California State Certified Hunter Safety Instructor. Upon successful completion of a training course, the student will be issued a valid Hunter's Safety Certificate for presentation to the licensing agent when purchasing a hunting license.

The Hunter Safety Class is open to all residents of the Indian Wells and Searles Valleys and surrounding areas, and will be taught by certified instructors of the Sierra Desert Gun Club at the club's rifle and pistol target range located at China Lake. The class will involve approximately 15 hours of classroom instruction, including a one-hour written final exam.

The class is limited to 50 persons and registration is offered on a first-come, first-serve basis until the class is filled.

Commander's Cup competition in golf scheduled Aug. 22

Preparations are being made for the next event in the year-round series of Commander's Cup athletic activities, which will be a golf tournament to be staged on the afternoon of Wednesday, Aug. 22, at the China Lake golf course.

Six-member teams representing NWC Blue, NWC Gold, and VX-5 will play beginning at 1 p.m. The combined total score of all members of each team will determine the final scores in golf. The winner will receive 5 points, second place is worth 3 points, and the third place team will get a single point to be added to current standings in the competition for the Commander's Cup.

Military personnel interested in taking part in the golf tourney should contact the appropriate member of the Military Athletic Committee. They are Dave Reimers, for NWC Blue, phone NWC ext. 5157; Ken Boswell, for NWC Gold, call ext. 2016; and David Vaught, for VX-5, call ext. 5208.

Two sailors entered in horseshoe-tossing tourney

Two members of the NWC Gold horseshoe pitching team, winners of the recent Commander's Cup competition, will represent the Naval Weapons Center at a horseshoe-tossing tournament coming up during the week of Aug. 27-31 at the North Island Naval Air Station in San Diego.

Stu Caldwell and Lawrence Nolan are the China Lakers who will vie in this Southern Pacific Sports Conference event.

They earned this right by posting the top scores in a pitch-off that was staged between the top eight contestants in the Commander's Cup horseshoe competition.

Top 3 teams in Military Softball League win big

The three top teams in the Military (slow pitch) Softball League, sponsored by the Recreation Services Department, all won their games last week by lopsided margins.

The Bad News Bears battered The Beef, losingest team in the Military Softball League, 20-3; the VX-5 Vampires shut out The Who 23-0; and the Hornets stung the NWC O's 16-1.

In addition, the Intruders improved upon their season record by picking up a forfeit win of 7-0 at the expense of the NWC O's, who were unable to get enough players together to play last week's scheduled game between these two teams.

The Bad News Bears converted 18 hits off

Bill Killinger, the losing hurler for The Beef, into 19 runs in a game that was cut to five innings because of the score.

Danny Whittenburg, shortstop for the Bears, batted 1.000 for the night. He had a double and three singles in four times at bat, and accounted for three runs batted in during the Bears win over The Beef.

Other heavy hitters for the league leaders were Larry Nolan, who was three for three (all singles); Dwayne Powell, two doubles and a single in four trips to the plate; and Ken Boswell, whose .750 at bat for the night included a single and two doubles. In addition, Flower, catcher for the Bears, hit a

home run with a teammate on base.

Eden was the big hitter for The Beef, as he connected for a triple and a two-base hit, and Jim Horton clouted a double for the Beef, who were held in check in the scoring department until they tallied one run in the fourth and two more in the fifth and final inning of their game with the Bad News Bears.

John Bell, pitcher for the VX-5 Vampires, tossed a 1-hitter in the Vampires' 23-0 wipeout of The Who.

The VX-5 Vampires, who were still a game out of first place last week in the Military Softball Division, fattened their batting averages with a 19-hit attack in what turned out to be another five-inning game with The Who.

Darrel Blevins and Tom Viviano led the Vampires at the plate. Both batted 1.000 for the night as they each had a triple, a double, and two singles in four times at bat. Blevins had three RBIs, while Viviano drove in two runs. Ed Pine had two singles in two times at bat for VX-5.

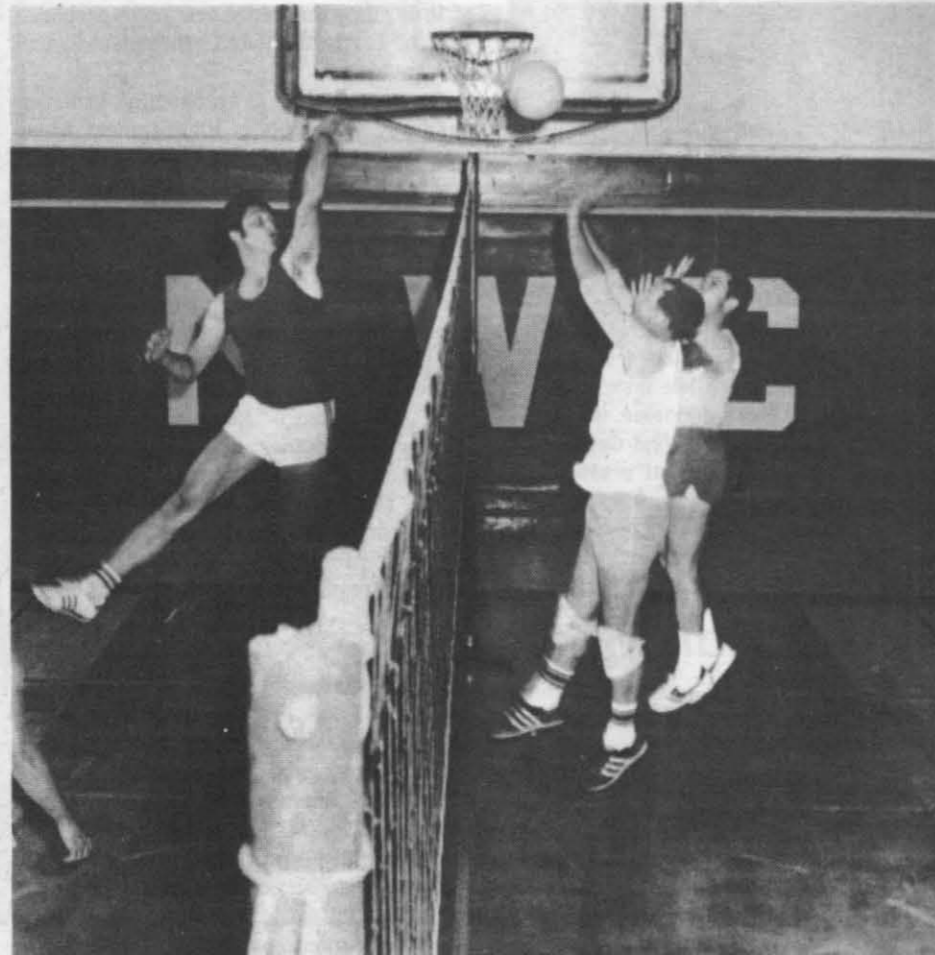
The NWC O's fielded a team in their game played last week with the Hornets, but it made little difference as they were able to score just one run in the first inning and suffered a 16-1 defeat in another five-inning game.

The Hornets tallied four runs in the first, fourth and fifth innings to win, going away, in their game with the outmanned Navy officers' team.

Long ball hitters for the Hornets in this tilt were Jeff Davis, who hit a triple, and Slusser, who banged out two doubles. Terry Miller had a .750 batting average for the evening with three hits (all singles) in four times at bat. Also three-for-four was Slusser, who had a single to go along with the pair of two-base blows that he had.

Standings in the Military (slow pitch) Softball League as of Aug. 10 were as follows.

Team	Won	Lost
Bad News Bears	10	2
VX-5	9	3
Hornets	8	5
NWC O's	5	7
Intruders	4	7
The Who	4	8
The Beef	2	10



SPARKLING PLAY — During last week's volleyball match between NWC military personnel and visiting Australian servicemen, Phil Pacor (RAAF) punches the ball over the net. Waiting to return it are NWC players Stu Caldwell and Dave Feldman. The Aussies came out on top three games to one in a best of five series held at the Center gymnasium. — Photo by PHAN Greg Hogan

Australians tangle in sports events with Navy

International competition of a sort found its way to China Lake last week when visiting members of the Royal Australian Air Force (RAAF) and NWC military personnel competed in several sporting events — a softball game, a cricket demonstration, and a volleyball match.

Bob Howard, detachment commander for the men from down under who were here testing ordnance to introduce to the Australian Strike Force, issued a formal challenge to NWC military personnel.

Howard, in his "challenge from the antipodes," said that it would "seem inappropriate to leave this most hospitable place without continuing the tradition of friendly competition established between our countries over the years."

In his reply to the RAAF challenge, Dave Feldman, who was appointed NWC liaison for the various events, accepted the invitation and apologized that, due to the short notice, the Center would be "unable to have any wallabies present for the competition."

It was agreed that softball would be played with rules "by U.S. authority, cricket by Australian authority," and "volleyball by rules of agreement."

As expected, the NWC team won the softball game. The Aussies, who don't play this particular game in their homeland, held their own in the contest, while the locals, taking pity on the visitors switch hit after a couple of innings. Everyone had a good time, but due to the heat, the game was called after about five innings. Unofficial score was NWC 18, Aussies, 6.

The cricket match, which is as foreign a game to the Americans as softball is to the Australians, never really quite got off the ground. The match turned into a

demonstration along with a few lessons for the local servicemen. Once again, the desert heat proved victorious in this event.

Americans who showed up for lessons in the British answer to softball were Leroy Blakey, Stu Caldwell, Dave Feldman, Brice Hammerstein, Bill Ireland, Chris Martin, Homer Twilly, and Richard Williams.

Aussies giving demonstrations and lessons were Harry Bradford, Viv Crouch, Len Hansen, Maurie McPhillips, Bob Peel, and Cole Porteus.

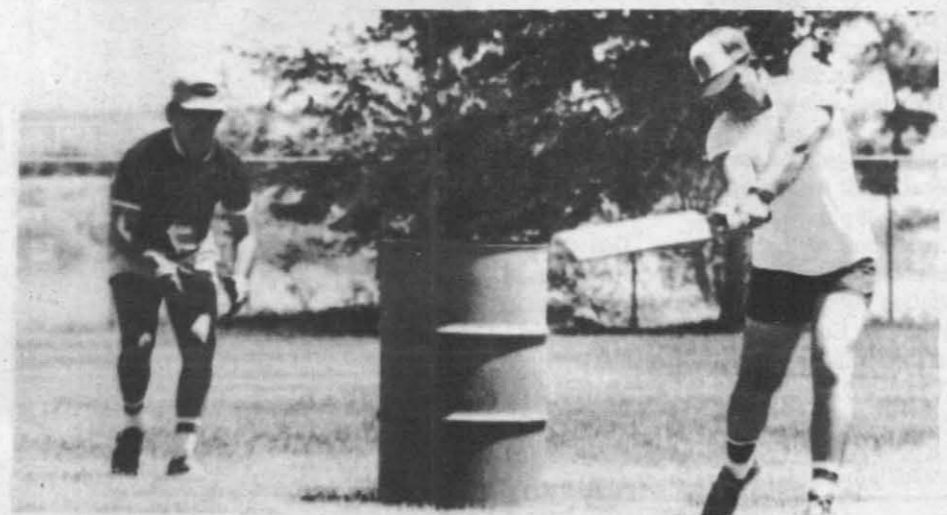
During a break from the action, the participants drank the refreshments supplied by the visiting contingent, and the Americans decided to teach the Aussies a brand new game as a Frisbee found its way onto the playing field, and the men from down

under did their best to learn how to toss it. This proved to be quite entertaining for those who were taking a break from the sun and just watching the activity.

While the softball and cricket contests were played with an air of nonchalance, the volleyball match was charged with electricity and excitement.

Competing for the Aussies were Harry Bradford, Ken McLeod, Maurie McPhillips, Brian (Mumbles) Macklin, Phil Pacor, Bob Peel, and Cole Porteus.

Representing the "Yanks" were Roosevelt Armstrong, Stu Caldwell, Jean Bormett, Patty Buckelew, Dave Feldman, Greg Hogan, Brice Hammerstein, Bill Ireland, Russell Simmons, Fred Stark, (Continued on Page 7)



NEW GAME PLAN — It may look like a backstreet game of baseball being played with whatever equipment can be rounded up, but it's actually cricket, the British answer to baseball. The batsman Richard Williams, of NWC, has a steady bead on the ball, while the wicket keeper, Ian Shakes (an RAAF engineer), prepares to catch the ball if it is missed by the batter. — Photo by PHAN Greg Hogan

The Skipper sez



All China Lakers, including military personnel, civilian employees, and their dependents are invited to submit questions to this column. Such queries must be in good taste and pertain to matters of interest to a large segment of the China Lake community. Answers to these questions are directly from Capt. K. A. Dickerson. Please call NWC ext. 2727 with your question and state whether you are a military member, civilian employee or dependent. No other identification is necessary. Since only three or four questions can be answered in the Rocketeer each week, anyone who would like to ensure getting an answer to a question may leave name and address for a direct contact, but this is not required otherwise. There is no intent that this column be used to subvert normal, established chain-of-command channels.

QUESTION

Civilian Employee — I have a problem regarding the new steel doors that were installed on the Capehart housing airconditioners and heating units. After installation a few months ago, I contacted Public Works about a key for entrance into the new utility room. I was informed by PW that keys were not issued to tenants, who could not enter this room since it would possibly take work away from the company that had been contracted to do any needed repair work.

At about 4:30 p.m. one day I called the trouble desk to report a burning type of smell being emitted from my air conditioner vents. Thirty minutes later the fire department arrived but could not enter the doors in question because they didn't have a key. Within 15 minutes later a PW employee arrived and everything checked out o.k.

My concern is that had there been a fire, neither I or the Fire Division could open these doors. I would like to ask that keys be issued to residents, plus the fire department, or the locks changed so my house keys would fit this lock.

Besides the air conditioner, there are hot water heater and heating units that could be the source of possible problems that need immediate attention. Thank you.

ANSWER

I have reviewed our policy concerning issuing keys for utility rooms and have determined that keys may be issued to occupants upon request.

However, there are several things occupants should know. Fire regulations prohibit the storage of material in these spaces. There is moving machinery which could injure anyone entering the room, especially children. Occupants resetting the heat level on their water heater (too high) could result in someone being scalded.

The Fire Division has keys for the utility doors in all locations on the Center. The proper thing to do in any fire situation is to notify the Fire Division first. We do not want occupants fighting fires and endangering themselves. The contractor supporting housing is responsible for performing preventive maintenance and responding to service calls.

For those occupants who desire to assume the safety responsibilities discussed above, utility room keys can be checked out at the Housing Office.

QUESTION

Civilian Employee — My question or, actually comments, deal with the stop sign on Sandquist Road going to the airfield. That's the stop sign for traffic that would be traveling north on Sandquist Road at the junction of Lauritsen Road.

When somebody has stopped at the stop sign it is not readily apparent to them that the oncoming traffic has the right of way to turn left in front of them. I'm familiar with it now because I work at the airfield. However, I can see where a visitor to the base, someone not familiar with it, could pull out in front of oncoming traffic which is intending to make a turn and the oncoming traffic does have the right of way.

I have almost done it a couple of times myself when I started working here. I would suggest a warning sign being put up, saying something like "caution oncoming traffic has the right of way to turn." That's just a suggestion to perhaps save some lives. Thank you.

ANSWER

Your suggestion is a very good one and it will be instituted shortly.

SAR helo picks up survivor of jet aircraft accident

The NWC Search and Rescue helicopter again responded this past week to retrieve the survivor of a Naval jet aircraft crash that occurred on Aug. 8.

On that date, an F-4 Phantom aircraft from Air Test and Evaluation Squadron Four (VX-4), based at the Pacific Missile Test Center, Pt. Mugu, Calif., crashed in a remote region of the Panamint Butte area of the Death Valley National Monument while on a routine test and evaluation flight.

According to Lt. John Semcken, Public Affairs Officer, NAS Miramar, San Diego, the pilot, Lt. Mark Steven Bottrell, 29, of Camarillo, did not survive the mishap, but LCDr. Frank H. Brown, the plane's radar intercept officer, ejected safely and was found uninjured.

LCdr. Buzz Massengale, SAR helo pilot, picked LCDr. Brown up shortly after notification of the crash. Other members of the SAR crew who also responded were Lt. Greg Friedrichsen, co-pilot, AEAN Mark Keenan, ANHAN Kevin Congers, and AN2 Bill Lewis.

The cause of the crash, which is under investigation, is unknown. The fatal accident reportedly started a blaze that scorched 640 acres in the Death Valley National Monument.

Lt. Bottrell is survived by his wife, Marianne. They had no children.

Damage hits millions at NWC as result of rainstorm Aug. 15

Major damage, which preliminary estimates place in the millions of dollars at the Naval Weapons Center, is one of the results of a deluge of rain that hit the Indian Wells Valley and surrounding desert areas this past Wednesday, Aug. 15.

The storm, triggered by moisture from the Gulf of California that was brought in a southwesterly flow of wind, set a 24-hour rainfall record for the month of August.

According to Aerographer's Mate Chief Mark Arnold, chief petty officer in charge of the Naval Oceanography Command Detachment at Armitage Airfield, a total of 1.6 in. of rain fell in the local area from 5 p.m. on Tuesday until the same time on Wednesday.

The intensity of the rainfall (most of which hit prior to noon on Wednesday) created river-like conditions at the NWC main gate and in the "triangle area" of Ridgecrest just outside the gate. From there, the water made a beeline for Michelson Laboratory.

By mid-day on Wednesday, flooding of the basement of the laboratory brought on evacuation of the laboratory, whose employees were granted administrative leave as were those at Armitage Airfield and in the Salt Wells area.

A meeting was held this morning in the Center theater to work out a plan of temporary work space assignments for Michelson Laboratory personnel and others whose regular work areas were damaged by the flood.

More details about the effects of the storm, with photos, will be provided in the Aug. 24 issue of the Rocketeer.



ENERGY MANAGEMENT AWARD — Capt. K. A. Dickerson, NWC Commander, accepts the Southern California Edison Co. Energy Management Award from David Henderson, local district manager for SCE. Others present for the ceremony, which was held in the Skipper's office, were Garyl Smith, head of the NWC Energy Program Management Office, and John Dodson, energy services representative for Southern California Edison. — Photo by PH3 Rick Moore

NWC receives award from SCE for energy conservation effort

The Naval Weapons Center has been recognized for saving more than 2.2 million kilowatt-hours of electricity annually as a result of an extensive conservation program, according to the Southern California Edison Co.

David Henderson, Edison district manager, reported that NWC's management has successfully reduced energy consumption during the past few years with a continuing conservation and load management program.

"The staff and management of the Naval Weapons Center are to be congratulated for their continuing dedication to conservation and their huge success," Henderson said.

Last Friday he presented Edison's Energy Management Award to Capt. K. A. Dickerson, NWC Commander. This award is presented to commercial, industrial and governmental customers that achieve significant energy savings.

Henderson said the annual savings by NWC are equivalent to the power requirements of nearly 500 typical homes.

In addition, the improvements resulted in an overall reduction of energy demand totaling 2,278 kilowatts, or about the same as the capacity of a small hydroelectric power plant.

To achieve the savings of electricity, the Naval Weapons Center instituted a number of measures that were successful, even though they occurred during a period of expansion, Henderson said.

One of the most significant improvements this year involved the installation of an energy management system to control heating, ventilation and air conditioning. Through a computer-controlled system and replacement of some equipment, the Center was successful in reducing electric consumption by more than 505,000 kwh, Henderson said.

A similar move to reduce cooling costs in the desert environment involved the substitution of evaporative coolers for 31 tons of central air conditioners. While serving four administrative and warehouse buildings, the changeover resulted in an estimated annual savings of 109,800 kwh.

Other past improvements have included use of more efficient lighting units and installation of mylar film on windows to block heat from the sun's rays.

The conservation measures at the Naval Weapons Center were undertaken with the assistance of John Dodson, Southern California Edison energy services representative. Edison provides assistance to customers who wish to review energy usage and initiate conservation programs.

New research chair honors Navy pioneer in computer science

The Naval Postgraduate School has announced the establishment of the Grace Murray Hopper Research Chair in Computer Science at the school's campus in Monterey, Calif.

The chair, in honor of Commodore Grace M. Hopper, USNR, Special Assistant to the Commander, Naval Data Automation Command, has been established to conduct and foster research in areas of computer science that will benefit the Navy, such as robotics and artificial intelligence.

The appointee to the chair will be chosen from members of the academic, industrial, scientific or engineering communities.

Aircraft Dept. employee passes 40-yr. milestone

Richard A. Wood, an electronics technician in the Tracking and Control Branch of the Aircraft Department's Engineering Support Division, was the recent recipient of a 40-year Federal length of service pin and certificate.

The presentations were made to Wood by Capt. K. A. Dickerson during a ceremony held in the office of the NWC Commander.

Wood's four decades of government service began when he enlisted in the Navy in 1942. He served on active duty during World War II from November 1942 to December 1945.

Wood's first wartime service in the Navy was a gunnery fire controlman serving 5- and 6-in. guns on the destroyer USS Santa Fe. During two years of sea duty, he saw action in the Aleutian Islands, followed by a cruise to the warmer climate of the south and central Pacific.

The Destroyer San Fe was a part of Navy task forces that hit the Japanese during landings in the Gilbert and Marshall Islands, and also was in on the invasion of the Philippines at Leyte, where one of the critical Navy battles of World War II took place.

After that it was on to Okinawa and Formosa before World War II ended and Woods, overseas service came to a close. He left the Navy on Christmas Day, 1945, only to re-enlist in August 1947.

This time he remained on active duty for a period of 16½ years that included two tours of duty (1952-54 and 1960-62) with guided missile units stationed at China Lake. Both times the primary function of these units was the test firing of Terror Missiles.

Wood's returned to the Navy in 1937 also put him in line for additional wartime duty when the Korean War broke out — this time as a gunnery fire controlman on the destroyer USS Seth Fehltler. In addition, prior to his honorable discharge in 1964 with 20 years of active duty to his credit, he also served on the crew that put into commission the guided missile cruiser Boston,



40-YEAR MILESTONE MARKED — Richard A. Wood is congratulated by Capt. K. A. Dickerson, NWC Commander, after being presented with a 40-year Federal length of service pin and a certificate signed by the Secretary of the Navy. Wood's four decades of federal service include wartime service in the Navy during both World War II and the Korean War, Navy peacetime duty at China Lake, as well as Civil Service employment here for the past 18 years.

was assigned to duty for a period of time on the USS Norton Sound, an experimental missile ship at Port Hueneme, and he also served at the Long Beach Naval Station, to mention some of his many and varied assignments.

Prior to joining the Civil Service work force at the Naval Ordnance Test Station (forerunner to the Naval Weapons Center) as a guard with the Security Department's Police Division, Wood was hired in August 1964 as a post office mail carrier in Ridgecrest.

Following his transfer to NOTS, he was promoted in 1966 to the job of electronics technician and was assigned, initially, to the Weapons Development Department,

where he remained for seven years prior to putting in 11 years — first with the Electronic Systems Department (two years) — and later with the Electronic Warfare Department (nine years).

This past April, the Beacon Shop, where Wood is employed handling maintenance work on radar tracking beacons that augment range area radars, was transferred to the NWC Aircraft Department.

During his more than 18 years as an NWC employee, Wood has received numerous letters of appreciation and commendation for jobs well done. He also has been the recipient of several Beneficial Suggestion Awards.

graduating from Kansas State University in Manhattan with a bachelor's degree in mechanical engineering.

At the conclusion of a year-long Junior Professional tour, he joined what was then the Propulsion Development Department. Initially he was engaged in engineering support of Hybrid, a propulsion system that used a solid propellant and a liquid oxidizer. Improved performance and a safer propellant was the goal of this work.

In 1967, he returned to school for a year — this time at the University of Southern California where his studies earned him a master of science degree (specializing in materials).

Back again at China Lake, he served as head of the Propulsion Development Department's Materials Research Branch — a job that involved him in technical support, research and development on high temperature materials used in rocket motors.

When this branch was disbanded in 1973, Stayton joined the staff of the Propulsion

Police reports . . .

The folly of leaving a parked car with its engine running was proven once again in a minor mishap that occurred at around 8:30 p.m. Monday near the intersection of Ticonderoga Avenue and Midway Road.

China Lake police responding to a report of an injury accident learned that the driver of a 1971 Chevrolet left the vehicle standing at the curb with its motor running.

After the motorist left the machine, it apparently jumped out of parking gear and into reverse with the result that it backed up over a curbing and struck a 28-year-old mother, who was pushing her 14-month-old infant in a baby carriage.

A Fire Division ambulance rushed to the scene and transferred the two accident victims to the Ridgecrest Community Hospital, where they were held for observation after being treated for cuts and abrasions.

DOUBLE TROUBLE FOR MOTORIST
A motorist, stopped last Saturday morning for a traffic violation, found himself in additional trouble when a check by China Lake police disclosed that he was wanted in Ridgecrest on a warrant charging him with reckless driving.

The motorist was transported to the Ridgecrest jail and turned over to authorities there to await disposition of the charges that previously had been filed against him.

The original traffic stop by China Lake police was made on Knox Road near the NWC Headquarters Building.

THEFT AT NEX REPORTED
Officials at the Navy Exchange retail store called China Lake police last Saturday afternoon to report the theft of a pair of tennis shoes and a stereo cassette player. Value of the missing items is estimated at \$60.

POWER MOWER STOLEN
Theft of a government-owned power lawn mower was reported last week to China Lake police. The lawn mower, valued at \$155, disappeared from the north side of the Housing Office building.

Systems Division and began his association as the technical liaison between the Navy Strategic Systems Program Office and NWC.

He has continued to handle ever-increasing responsibilities in this area for the past 11 years during which times there has been one organizational change that (in September 1980) moved him to the Research Department in what is now the Engineering Sciences Division.

Soldering technology class

A Soldering Technology Class for NWC employees who are interested in this subject will be held during the week of Aug. 27 to 31.

Those who successfully complete this class, which is offered by the Engineering Department's Soldering Technology Branch, will be certified to Categories F or G of Navy Soldering Specification WS-6536D.

Only a limited number of students can be handled in this class. Those interested in attending should call NWC ext. 2720 or 2678.

Applications now being taken for long-term training programs

Applications for long-term graduate and undergraduate level training (training off-Center for a period of 120 consecutive days or longer) for 1984-85 are now being sought from interested Naval Weapons Center employees.

To be eligible for long-term training, an individual must have been employed at NWC three years at the time studies begin.

Long-term training may be considered to meet any of the following objectives:

(1) To update an employee's knowledge where there has been an appreciable lapse of time since the initial academic preparation for employment and subsequent in-service training.

(2) To provide a technically oriented employee with tools of management when job responsibilities have or will become predominantly managerial in nature.

(3) To expand an employee's knowledge and background within his or her occupational speciality, whether he or she occupies a technical or nontechnical position, by providing an opportunity to learn about significant developments or breakthroughs as they pertain to the mission of the Center.

(4) To acquire knowledge of some aspects of another occupation as they relate to an employee's present occupation where responsibilities tend to be interdisciplinary or multidisciplinary in nature.

(5) To provide for educational opportunities stressing motivational and human

relations factors that contribute to effective technical and managerial competence.

The Corporate Planning Board (CPB) will consider applications in any area of study that relates directly to NWC program requirements. However, special emphasis for this year is being placed on RF and microwave science and engineering, computer science and engineering, and software engineering. The primary criteria the CPB follows in determining when long-term training is used in lieu of after-hours, part-time, or short-term programs are as follows:

(1) The new knowledge and skills required of the employee, either in present or planned career assignments, necessitate a comprehensive, concentrated program of study.

(2) The time span for acquisition of new skills and knowledge is such that an accelerated study program of long-term, full-time duration is required.

(3) It is determined that the academic superiority of the institution selected is such that it is clearly in the best interest of the government that the employee attend the selected educational institution.

(4) There is no educational institution or academic program in the local or community area for part-time or after-hours training.

Navy Civilian Personnel Command funds are available to cover the trainee's travel allowances to and from the school, tuition and fees required for enrollment, and payment for moving his or her immediate family and household goods to the school and back to the Center. NWC will be responsible for the trainee's salary.

Further details of the long-term training program are provided in NAVWPNCEN INST 12410.5L of Sept. 31, 1982, and the Long-Term Training Handbook. Both sources are available from department offices or at the Training Center. Applicants are advised to contact Code O1A2 (phone NWC ext. 3793), Room 2102 in Michelson Laboratory for application forms.

It is necessary to have a complete set of transcripts, along with a notification of school acceptance accompanying the application. The application must have a letter of endorsement signed by the department head.

Approved fellowships are granted for one academic year (two semesters or three quarters). The deadline for submission of applications for programs commencing in the spring semester or spring quarter of 1984-85 is Oct. 26, 1984.

Counseling regarding the various programs and applications procedures is available from Steve Lee, Code 094, Training Blvd., Rm. 210, phone NWC ext. 2468.

Cerro Coso College enrollment counseling continues to Aug. 28

Enrollment counseling for students planning to attend Cerro Coso Community College during the fall 1984 semester, which begins Aug. 20, is being offered from now through Aug. 28.

All students are encouraged to see a counselor for answers to questions about a choice of major, study program, graduation requirements, or other matters of concern regarding education.

Students interested in seeing a counselor may arrange for an appointment by calling the Counseling Center at 375-5001, and asking for extension 219.



MEMENTO OF VISIT — Capt. K. A. Dickerson, NWC Commander, presents a NWC plaque to Brigadier General Adrian Freiherr von Oer, a high ranking officer from West Germany, who was here to witness avionics burster slab verification tests at the SNORT track. In the background is Carl Haisey, local project engineer for this NATO-sponsored test that brought some 30 visitors to China Lake from West Germany and Norway to observe how well the reinforced concrete slab walls of protective shelters are able to stand up to various conventional weapons that were exploded against them. Arrangements for the tests and the visit by NATO country representatives were coordinated by Walter Buchholtz, an Air Force research structural engineer from Tyndall Air Force Base in Florida. — Photo by PHAN Greg Hogan

Aussie detachment tests Harpoon missile. . .

(Continued from Page 1)
The Prototype Aerodynamic Test Vehicle (PATV-2). Developed in 1972, it is used during tests such as those conducted by the RAAF.

The PATV-2 is designed to evaluate the effect of aircraft on the Harpoon missile, and is used when the missile is to be integrated with a new aircraft. It sends electronic signals to receivers on the ground. While it has been determined that the F-111-C is safe with the missile, these tests were conducted to discover if the missile is safe with the aircraft.

For maneuver conditions, data is recorded throughout the procedure or for 30 seconds, whichever can be achieved. During these maneuvers, the PATV-2 measures the strain, acceleration, pressure, and acoustic effect of the aircraft on the missile.

According to Trevor Hill, an engineer from McDonnell Douglas, the purpose of PATV-2 is "to tell us the effect of flying the missile on that particular aircraft. He added that if the testing is successful, this will be the fifth aircraft to incorporate the Harpoon. The others are the A-6, A-7, the P-3, the S-3, and the B-52.

Since the tests were being conducted at the PMTC ranges, but were staged out of the PMTC, they were staged out of the Cerro Coso College.

Aeronautics class offered this fall at Cerro Coso College

A 3-unit class in aeronautics will be offered by Cerro Coso Community College during the fall semester, which begins on Monday, Aug. 20.

The class will be an introduction to basic concepts and general information about airplane flight, control, construction, and operation. It will be held on Mondays from 6:30 to 9:30 p.m.

According to the instructor, Don Quist, this class prepares students for the Federal Aviation Agency private pilot written examination. Emphasis will be placed on aircraft weighing less than 12,500 pounds.

The newly state-mandated enrollment fee requires students to pay a minimum of \$15 to enroll in this class. This amount increases if more classes are taken.

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NWC, PMTC sent a mobile telemetry receiving station to China Lake to monitor the missile and ensure the instrumentation functioned properly before test flights began.

The mobile unit records the take off, climb, and touch down, looking at each variable to see that the system is "up" before and after each flight. John A. Mainzer, an electronics technician from PMTC, operated the unit.

Facilities involved with the RAAF's testing of the Harpoon missile were Naval Air Systems Command, Washington, D.C.; PMTC; Naval Air Test Center, Patuxent River, Md.; NWC, and McDonnell Douglas Aeronautics Co., St. Charles, Mo.

The positive relationship between the Australians and the Americans grew throughout the entire program. They could not say enough about the treatment they received while here. "We have received absolutely superb help and friendship. We could not have done these tests unless NWC and Point Mugu were able to provide ground station support, and they have provided everything we could possibly want or need," said SqnLdr. Bradford.

One of the people who worked almost full-time to see that the Australian's stay at China Lake would be as hassle-free as possible was Jackson Whitfield, an equip-



PRE-FLIGHT BRIEFING — Squadron Leader Bob Howard, detachment commander for the Australian contingent and one of the test pilots, discusses a flight plan with SqnLdr. Harry Bradford (standing) and other test pilots, while Bernie Chandler and Flight Lt. Peter Morrell listen in. — Photo by PH3 Rick Moore

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Stayton honored for work with Strategic Systems Program Office. . .

(Continued from Page 1)
research scientist in the Engineering Sciences Division of the Research Department.

In his position as Technical Program Manager for SSPO Activities at NWC, he has brought together elements of both the Research Department and Range Department in work that is of tremendous importance to the overall defense posture of the United States.

According to Dr. Derr, who nominated Stayton for the Technical Director's Award, the latter's contributions include both management and technical leadership. As the team leader for Trident, Poseidon, and Polaris missile activities, he does more than coordinate SSPO-NWC activities.

He also provides liaison with the Lockheed Missiles and Space Corporation, Lockheed Research Laboratories, Joint-Venture (Hercules and Thiokol), United Technologies Corp., and the Aerojet Strategic Missiles Corp., as well as the Naval Surface Weapon Center (White Oak, Md.) and the Naval Ordnance Station (Indianhead, Md.).

In recommending Stayton for the NWC Technical Director's Award, his division head also noted that while SSPO has been a consistent source of funds for the advancement of propulsion technology for almost 20 years, this has been greatly expanded during the last 10 years due in large part to Stayton's efforts.

In his role as Technical Program Manager for SSPO Activities at NWC, Stayton is responsible for planning, budgeting, and reporting the results of SSPO activities here. He serves as the focal point for SSPO technical consulting requests, in addition to advising SSPO of any deficiencies in the ballistic missile propulsion technology area.

The Technical Director Award recipient also is the technical program director for the SSPO-funded Government Assisted

Missile Studies Program, which addresses the effects of aging on mechanical integrity and ballistic performance of the Trident missile propellants.

This program involves personnel from the Chemistry and Engineering Sciences Division of the Research Department, as well as the Engineering Departments at NWC, and is recognized, due in large measure to Stayton's technical leadership, as an excellent technical effort.

While handling his major SSPO responsibilities, Stayton also has revamped the local Trident budget accounting system to permit more timely changes to made in program plans in order to meet budgetary constraints and avoid year-end "crunches."

In addition, Stayton has fostered the exchange of technical information between the various entities involved in the Trident missile programs, including Lockheed, the Trident prime contractor.

Stayton joined the Civil Service work force at China Lake 26 years ago after

MIKE'S LAB by Bill Emwin

