

Weekend Roundup

Magician Robert Doggett is in the local area this weekend. Tonight Doggett is performing at the Commissioned Officers' Mess for that facility's Family Night Buffet beginning at 6 p.m.

Doggett will entertain COM patrons following a buffet dinner of tacos, Spanish rice, refried beans, and coffee, tea, or milk for a cost of \$5 for adult members, \$3.50 for members' children, and \$6 or \$4 for non-member guests and their children, respectively.

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Tomorrow night Robert Doggett will also appear at the Enlisted Mess to perform his World of Illusion mystical, magical variety show.

The show will also feature a performance by a female impersonator. The evening's entertainment, presented free of charge, will go from 9 to 11 p.m. The dinner special at the EM is lobster plate and will be served from 6 to 8:30 p.m.

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Rodeo lovers can attend a free rodeo tomorrow and Sunday at the Desert Empire Fairgrounds in Ridgecrest when members of the California High School Rodeo Association compete.

Boys in the high school rodeo will compete in saddle bronc and bareback riding, steer rassin', calf roping and team roping. Girls will compete in breakaway roping, goat tying, barrel racing, and pole bending, and both boys and girls will compete in cutting. The fun starts at 1 p.m. tomorrow, and at 10 Sunday morning.

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World champion, white-water kayakers are presently training at Kernville's Riverfront Park. Visitors interested in watching these athletes train for competition in this fast growing water sport can do so between the hours of 10 a.m. and noon and from 3 to 4:30 p.m. daily through the month of February.

Rec Services now offering enrichment program for kids

Parents of three or four year old children now have an opportunity to enroll their children in the Enrichment Program sponsored by the Recreation Services Children's Centers.

The developmental program, taught by qualified staff, help youngsters form social and pre-kindergarten skills necessary for a head start in the learning process.

Classes are held on Monday, Wednesday, and Friday mornings from 7:30 to 11 for children 4 years of age. Classes are also available on Tuesday and Thursday mornings from 7:30 to 11 for both three and four year old children.

Enrollment fees for the program are \$52 for military dependents and \$63 for civilian dependents per month per child for children enrolled in the Monday, Wednesday, and Friday classes.

Parents of children attending Tuesday and Thursday classes will pay \$36 for military dependents and \$45 for civilian dependents per child per month.

Additional information can be obtained by phoning NWC ext. 2422.

Dental health month includes treatments from branch clinic

February has been declared National Children's Dental Health Month by the American Dental Association.

The Branch Dental Clinic will provide dental exams and fluoride treatments for dependents, 4 to 17 years of age, of active-duty military personnel.

The exams will be held Saturday, Feb. 9, and possibly Saturday, Feb. 23, from 10 a.m. to 3 p.m.

It is suggested that parents of dependents should arrive 10 minutes early to fill out a short health questionnaire for each child.

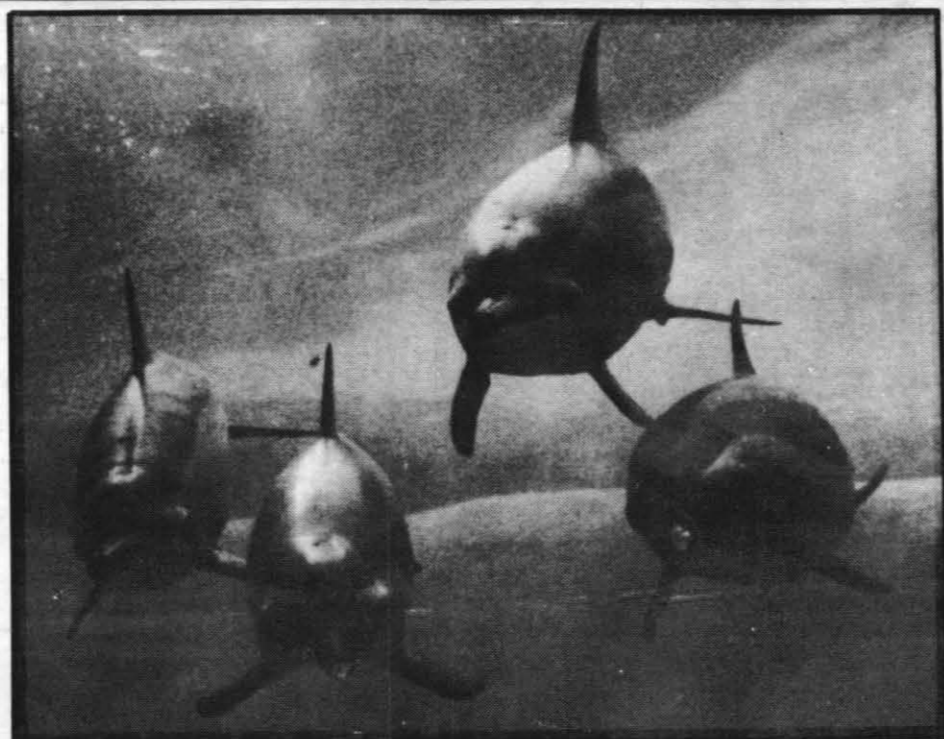
The exam requires no X-rays and is intended to spot obvious tooth decay and developmental problems.

Appointments to attend the exam are necessary and can be arranged by phoning the Branch Dental Clinic weekdays between 7 a.m. and 4:30 p.m. The phone numbers are 939-2911, ext. 221, or 939-2841.

Concert at college features twin duo to play and sing

The Associated Students of Cerro Coso Community College are sponsoring the musical duo of Pete and Paul Barkett in concert Feb. 8, starting at 8 p.m. in the school's lecture center.

Admission to the show is \$4 for general tickets, \$3 for senior adults and young people 18 years of age or under. ASCC cardholders will pay \$2 for tickets, which are available from college business office, Music Man, the Entertainer Music Center, Loewen's, Country Junction, and at the concert door after 7 p.m.



INTELLIGENT ANIMALS — The spinner dolphin is the topic of a presentation at the annual Maturango Museum dinner meeting set at the Enlisted Mess next week.

Talk on Spinner Dolphin tops annual museum dinner meeting

A talk on "The Life of the Spinner Dolphin," by Dr. Kenneth Norris, Professor of Natural History at the University of California, Santa Cruz, will highlight the annual dinner meeting of the Maturango museum on Friday, Feb. 8.

The meeting, which begins with a social hour at 6 p.m., will be held at the Enlisted Mess. A dinner featuring a three-meat buffet will follow at 7 o'clock; and Dr. Norris will speak following the dinner and a brief business meeting.

All interested persons in the community are invited to attend. Reservations are required and must be made by Friday, Feb. 1, by purchasing a dinner ticket at the Maturango Museum office. Tickets for the dinner and evening, including gratuities, are \$10 per person.

CPOM bills Military Ball

The annual Chief Petty Officers' Military Ball is set for next Saturday evening, Feb. 9, in the Chief Petty Officers' Mess beginning with a 6 p.m. social hour.

A dinner of prime rib of beef will served with wine starting at 7:30 p.m. Side dishes include baked potato with a choice of butter or sour cream, buttered green beans, tossed green salad, and dinner roll.

From 9 p.m. until 1:30 a.m. the San Diego Navy Band will entertain the evening's participants. Tickets for the party are \$12.50 per person or \$25 per couple and can be purchased at the CPOM no later than 8 p.m. Friday, Feb. 8. Formal attire is required.

MOVIES

REGULAR STARTING TIME 7:00 P.M.

FRIDAY, MONDAY FEBRUARY 1, 4
"FINDERS KEEPERS"
 Starring Michael O'Keefe and Beverly D'Angelo (Comedy, rated R, 96 min.)

SATURDAY FEBRUARY 2
"SNOW WHITE AND THE SEVEN DWARFS"
 (Animated, rated G, 83 min.)

SUNDAY FEBRUARY 3
"SEA DEVILS"
 Starring Ian Sera and Patty Shepard (Adventure, rated PG, 87 min.)

WEDNESDAY FEBRUARY 6
"ELECTRIC DREAMS"
 Starring Lenny Van Dohlen and Virginia Madsen (Comedy, rated PG, 96 min.)

FRIDAY FEBRUARY 8
"THE BUDDY SYSTEM"
 Starring Richard Dreyfuss and Susan Sarandon (Comedy, rated PG, 110 min.)

U.S. Government Printing Office 1984 - No. 1045

From: _____

To: _____

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Designated Driver Program by NWC clubs is cooperative safety effort

China Lake has joined in a Navy-wide effort to cut down the number of drinking drivers who are out on the road — all three of the clubs on the base are taking part in the "Designated Driver" program.

Authorized patrons of the Enlisted Mess, Chief Petty Officers' Mess or Commissioned Officers' Mess who are in a party of three or more can have one of their group designated as the driver for the evening.

This individual will receive a "No Thanks" button from the bartender, and will receive free coffee or nonalcoholic beverages during the course of the evening.

At the time that the group leaves to head homeward, the Designated Driver returns the "No Thanks" button to the bartender and receives a discount coupon for a meal, the size of the discount depending on the number of people in the party that the driver takes home.

Happenings around NWC

An art exhibit of Gladys Merrick's work will be in place at the Sylvia Winslow exhibit gallery during the month of February.

The show, entitled "Visions in Black and White," consists of very intricate pen and ink drawings.

The exhibit begins this Sunday with a reception to honor Mrs. Merrick from 2 to 4 p.m. at the Maturango Museum.

A resident of the Indian Wells Valley since 1948, she is best known for her wildflower drawings and photographs. Mrs. Merrick has authored a book, "50 California Desert Wildflowers," which was used for her master's degree thesis in education from Loma Linda University.

SCOUT COOKIES NOW ON SALE
 Girl Scouts from the local area are now accepting orders during their annual Girl Scout Cookie sale.

The young women are visiting homes door-to-door until February 10 accepting orders for the seven varieties of cookies they distribute.

The expected order of two billion boxes of

cookies nationwide will be delivered sometime in early March.

Last year the Joshua Tree Council, which administers the local Girl Scout program, sold 327,539 boxes of cookies. The proceeds from the sale are used for the benefit of the local scouting membership.

FLEET RESERVE ASSOC. MEETS
 The regular monthly business meeting of the China Lake Branch Fleet Reserve Association will be held at 7:30 p.m. Monday in the Enlisted Mess.

The meeting will begin with a social hour at 6:30 p.m. prior to the business session. All active duty or retired members of the Navy, Marine Corps, and Coast Guard are invited to attend.

MANION SPEAKS AT CLAS
 Jim Manion, an NWC employee, will give a talk next Monday, Feb. 4, about the affect of air quality on nighttime visibility in the Indian Wells Valley at the next meeting of the China Lake Astronomical Society.

The meeting is scheduled for 7:30 p.m. at the Ridgecrest branch of the Kern County Library.



February 1, 1985

Vol. XL, No. 5

NAVAL WEAPONS CENTER
 CHINA LAKE
 CALIFORNIA

Helicopter assists with herd management

During the past three weeks, 691 feral horses have been removed from the Center's range lands, with a total of 1,483 horses removed since the program began to bring the horse herds down to a size that can find adequate forage without damaging the environment.

The rapid capture and removal of the last group of horses has been made possible by use of a helicopter to help round up the animals. Using a helicopter in a massive roundup is both more humane and more efficient, but such use has been outlawed for years.

Thanks to the intervention of Congressman William Thomas, the Navy was granted a one-year exemption from what is known as the "Wild Horse Annie Act" and has been able to use the services of a contractor flying a jet ranger helicopter to herd the animals toward corrals from which the wranglers could then easily gather them.

The horses were then moved to a holding facility on the Randsburg Wash Road near Highway 178; from this facility, they are either adopted out or are shipped to pasturage where they will be held until they are adopted.

About 400 to 500 horses are now left on the Center's ranges. These horses are descendants of animals that escaped or were turned loose by ranchers and miners. Horses and burros originally were brought to this continent by Spanish explorers in the 1500s.

The initial animal removal program from Center lands was of burros, made necessary because of the hazards that they posed

both to man and the environment. Between March 1980 and October 1983, nearly 6,000 burros were removed. Since then, the Center has been conducting an annual

sweep. The first in 1984 netted 299 burros. The second annual sweep of the Center ranges to remove burros that have strayed on Navy land from Death Valley and sur-

rounding areas is now underway and about 100 to 200 animals are expected to be removed at this time.

(Continued on Page 7)



ROUNDUP TIME — With help from an airborne wrangler in a NWC range, the roundup removed more than 600 horses from the range in about three weeks last month. — Photo by Griff Davies

John F. Prescott honored with superior service award

John F. Prescott received the Superior Civilian Service Award at Monday morning's Commander's meeting from Col. John Tyler, head of the Marine Corps Liaison Office, who made the presentation on behalf of Gen. P. X. Kelley, Commandant of the Marine Corps.

The award was made to Prescott because of his superior service while assigned as Naval Science Advisor to the Commanding General, Fleet Marine Force, Atlantic from July 1982 through July 1984.

The commendation accompanying the medal denoting this second highest of all Navy honorary awards notes that Prescott consistently displayed outstanding professional expertise and was responsible for many technical accomplishments which improved the readiness and operational performance of a broad range of tactical equipment.

As Col. Tyler made the presentation, he concluded his remarks with "Thanks—that's the operative word."

The achievements specifically called forth in the nomination for the award included efforts in prototype design work and project definition in mobility programs such as the trailer-mounted Dragon missile carrier and tracked vehicle ice cleat program.

Also mentioned was the timely guidance and direction by Prescott on issues such as CH-53E electrostatic grounding technique and lithium battery handling safety.

The nomination written by the Marine Corps noted that many other projects were defined, initiated, funded and completed by NSAP because of Prescott's sincere, dedicated work.

His experience and expertise in technical matters provided an effective link between the military user, the developer and the producer, the nomination said.

Prescott is currently associate head of the Sensor Systems Division of the Fuze and Sensors Department. A Center employee since 1974, he worked

for private industry after graduation from the University of Texas with a bachelor's degree in electrical engineering. Prescott has also studied graduate level courses at San Diego State University.

Although one of his favorite hobbies is fishing, he says that he hasn't found much

time for that in recent years. The spare time that he does have is spent in designing and building things in his woodworking shop.

Prescott and his wife, Robbie, are the parents of four children, the youngest of whom is now in college.

Research chemists work to synthesize new materials

The goal of the research chemists in the Energetic Materials Branch of the Research Department is to identify and synthesize new materials that will lead to safer and higher performance munitions to fulfill the Navy's future requirements.

Branch members working in the Energetic Materials Synthesis Program headed by Dr. Ron Atkins (also the branch head of the Energetic Materials Branch)

are working a broad spectrum of problems in the area of energetic materials synthesis.

They are endeavoring to develop relatively insensitive energetic molecules for applications as high explosives and propellants that will reduce the vulnerability of munitions to initiation by shock and fire.

Catastrophic fires aboard ships and



HEARTFELT THANKS — Col. John Tyler expresses the appreciation of the Marine Corps for the work performed by John Prescott during the time that Prescott served as Navy Science Advisor to the Commanding General, Fleet Marine Force, Atlantic.

(Continued on Page 4)

No. 12-001, Clerk-Typist, GS-323-3/A, Code 12 — Major duties include receiving visitors, telephone calls and mail; typing official correspondence, travel orders, security clearances, and itineraries; reproducing documents. KSAs: Knowledge of Clerical procedures. Ability to deal with a wide variety of clerical and administrative procedures. Knowledge of Mac-Card machines desirable.

No. 25-126, Management Analyst, DP-853-4, Code 2533 — Prepares documentation for projects and reports related to in-house efforts as required by Navy's Shore Facilities Planning System. KSAs: K - of Navy's Shore Facilities Planning System; to communicate practices, theories, techniques. A - to manage both orally and in writing.

No. 25-127, Facilities Management Specialist, DA-1640-1, Code 2533 — Responsible for the administration of all records of NWC-owned and controlled class II plant property. KSAs: K - of facilities management; control techniques; controlled Class II property. A - to estimate levels of effort for planning and design projects; to establish and maintain good working relationships with all levels.

No. 31-116, Supervisory (Interdisciplinary) Mechanical/Aerospace/Electronics/General Engineer, Physicist, Mathematician, Computer Scientist, DP-801/855/1530/1310/1320-3/A, Code 3185 — Position is the A-7 Deputy Program Manager for Engineering, located in the A-7E Program Office. Responsible to the program manager for the management, supervision and administration of the A-7E engineering activities in support of the A-7E/TA Navigation Weapon Delivery System, (NWDS) with special emphasis on the development and validation of Operational Flight Programs for the airborne computer and the integration of new capabilities in the NWDS. Major responsibilities include the definition, development, supervision and/or monitoring of plans, schedules, manpower, progress and expenditures associated with assigned tasks or delegated to the supporting engineering staffs. Elements: Ability to provide technical coordination of the A-7E WSSA; ability to interface effectively with Center administrative units and outside organizations; ability to communicate well both orally and in writing; ability to administer program planning, scheduling and expenditures; interest in and potential to handle people problems (EEO). Promotion potential to DP-4, however, promotion is not guaranteed.

No. 31-117, Supervisory Engineering/Electronics Technician, DP-802/856-3, Code 3185 — Position is the A-7 Deputy Program Manager for Engineering, located in the A-7E Program Office. Responsible to the program manager for the management, supervision and administration of the A-7E engineering activities in support of the A-7E/TA Navigation Weapon Delivery System, (NWDS) with special emphasis on the development and validation of Operational Flight Programs for the airborne computer and the integration of new capabilities in the NWDS. Major responsibilities include the definition, development, supervision and/or monitoring of plans, schedules, manpower, progress and expenditures associated with assigned tasks or delegated to the supporting engineering staffs. Elements: Ability to provide technical coordination of the A-7E WSSA; ability to interface effectively with Center administrative units and outside organizations; ability to communicate well both orally and in writing; ability to administer program planning, scheduling and expenditures; interest in and potential to handle people problems (EEO). Promotion potential to DP-4, however, promotion is not guaranteed.

No. 31-118, Supervisory (Interdisciplinary) General/Electronics/Electrical Engineer, Computer Scientist, Physicist, Mathematician, DP-801/855/1530/1310/1320-3/A, Code 3113 — Position is that of branch head, A-7 Facility Branch. Branch develops, maintains, and operates simulation/integration facilities to support the A-7 Weapon System Support Activity (WSSA) in the role of technical assistance, requirement definition, system development, weapons system integration, validation, architecture, hardware engineering, facility software engineering and simulation software. Incumbent provides overall direction, coordination and management of branch activities. Elements: Knowledge of Weapon Systems Support Activities (WSSAs) mission requirements, avionics facilities hardware and software analysis, design, and operations; embedded computer applications and productivity enhancements, including hardware and software tools; knowledge of computer systems architecture and application, understanding of NWC personnel policies and procedures; support of NWC EEO policies and goals. If filled at the DP-3 level, this position has promotion potential to DP-4, but is not guaranteed.

No. 31-119, Supervisory Engineering/Electronics Technician, DP-802/856-3, Code 3113 — Position is that of branch head, A-7 Facility Branch. Branch develops, maintains, and operates simulation/integration facilities to support the A-7 Weapon System Support Activity (WSSA) in the role of technical assistance, requirement definition, system development, weapons system integration, validation, architecture, hardware engineering, facility software engineering and simulation software. Incumbent provides overall direction, coordination and management of branch activities. Elements: Knowledge of Weapon Systems Support Activities (WSSAs) mission requirements, avionics facilities hardware and software analysis, design, and operations; embedded computer applications and productivity enhancements, including hardware and software tools; knowledge of computer systems architecture and application, understanding of NWC EEO policies and goals.

No. 31-120, Electronics Technician, DP-856-1/2/3, Code 3112 — Technician for WSSP work station and avionics development and maintenance. Duties include the electronic maintenance of test consoles; troubleshooting and testing of electromechanical and hardware systems; layout and electronic design of test consoles and related components. Work is accomplished from blueprints, drawings, sketches, and verbal instruction from the branch head. Elements: Knowledge of electronic design techniques and processes; ability to operate test equipment; skill in formalized hardware design, fabrication documentation and maintenance standards and practices; experience in Fletcher digital design techniques is highly desirable. Status eligible may apply.

No. 32-147, Explosives Worker, WG-6502-4/5, Code 3272 (Multiple vacancies) — Performs a variety of repetitive manual and mechanical tasks in solid rocket motor case lining, assembling, disassembling, mixing, casting, machining, inhibiting, and general processing of plastics, ammoniums, and propellants with a variety of different types of equipment. Receives, stores, and ships these items. Elements: Knowledge of of materials, tools, and equipment used by an ordnance worker (ammunition and explosives). Ability to do work of position without more than normal supervision; to follow directions; to work as a member of a team. Supplemental required. Promotion potential to WG-10.

No. 34-006, Library Technician, GS-1411-4/5, Code 3431 — Incumbent provides general circulation services with specific duties in the control and dissemination of the report collection. Circulation services include answering phones, routine calls, answering quick reference questions, checking out material and reshelving. Operates the Custody Control Point for secret documents in the Technical Library. Job Elements: Knowledge of policies, regulations and instructions pertaining to the proper handling of secret material; ability to communicate effectively both orally and in writing; familiarity with circulation functions; knowledge of the contents and specialized terminology of the book and report catalog. Promotion potential to GS-6.

No. 36-148, Secretary (Typing), GS-318-4/5, Code 63T — Provides secretarial support to the Air Weapons Technology Office. Previous applicants need not re-apply.

No. 31-121, Secretary (Typing), GS-318-4, Code 3151 — Provides secretarial support to the head, Laser Systems Branch. Promotion potential to GS-6.

No. 36-148, Secretary (Typing), GS-318-4/5, Code 3605 — Part-time position. Provides secretarial support to the Software Engineering Office. Status eligible may apply.

No. V-64-003, Secretary (Typing), Code 6412 — Provides secretarial and administrative support to the head, Fleet Support Branch. Job Elements: Thorough knowledge of NWC organization and Aerosystems Department functions.

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 at 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. 2264. 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 as indicated in 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 reason.

No. 34-007, Technical Publications Writer/Editor, DA-1083-1/2/3, Code 3464 — Responsible for writing and editing technical publications, supporting departmental technical programs, and planning and preparing documentation in support of major programs. Works closely with engineers and program managers to identify publications requirements and produce technical reports and documentation in support of RDT&E programs. Job Elements: Knowledge of publishing techniques and grammar. Ability to write and edit technical material using specialized skills; ability to work with civilian and military customers and communicate effectively both orally and in writing. Promotion potential is DA-3.

No. V-62-004, Engineering Technician, DT-805-3, Code 6236 — The incumbent will perform as senior technician for the development, construction and maintenance of On-Axis Radar systems, and RF targets hardware design. Duties include development of new designs by welding, machining of hardware, assisting electronic technicians and engineers in the integration of designs. Job Elements: Knowledge of electro-mechanical systems, development and production processes. Ability to communicate both orally and in writing.

No. V-62-005-85, Electronics Technician, DT-856-2/3, Code 62543 — The incumbent will be involved in the design, development, testing, evaluation, operation, and maintenance of various types of range communications systems for use in support of ordnance testing. The incumbent will manage, troubleshoot, and maintain the range communications cable distribution system including systems and subsystems for warheads and rocket motors. Duties include planning, budgeting, coordinating, and monitoring in-house tasks supporting these efforts: identifying problems, defining, proposing and incorporating solutions into planned effort. To apply send SF-171 to Nancy Maaquard, Code 335, ext. 428.

No. 64-20, Electronics Technician, DT-856-3, Code 6421 — Incumbent is head of Test Support System and will provide supervision for a group of 8-10 Electronic Technicians. Duties include management and coordination of technical activities as well as general administrative tasks. Job Elements: Ability to support Affirmative Action (Continued on Page 7)

Reassignment opportunities

This column is used to fill positions through reassignment only. For this reason, the Reassignment Opportunity Announcements are separate from the Promotion Opportunities column in the Rocketeer. Applications will be accepted until the date stated in the announcement. Employees whose work history has been brought up to date are encouraged to file an SF-171 or 172. All applicants must meet minimum qualification requirements established by the Office of Personnel Management. Information concerning the recruitment and placement program and the evaluation methods used in these reassignment opportunities may be obtained from Personnel Management Advisors (Code 096 or 097). Applications should be filed with the person whose name is listed in the announcement. NWC is an Equal Opportunity Employer.

No. 31-488, Interdisciplinary, General/Electronics/Aerospace Engineer, Physicist, Mathematician, Computer Scientist, DP-801/855/861/1520/1350-1/2/3, Code 3113 — Provides hardware and software capability to develop, verify, and validate operational flight programs (OFPs) for use in the A-7 aircraft. Lead software engineer for the branch. Duties consist of analysis, design and testing real time simulation S/W models in the A-7 labs. Insure that all branch S/W is developed in compliance with the A-7 S/W development standards. To apply for this position forward updated SF-171 to P. LeBoeuf, Code 3102, Ext. 3219. Previous applicants need not re-apply.

No. 31-104, Interdisciplinary, General/Electronics/Electrical/Mechanical Aerospace Engineer, Physicist, Mathematician, Computer Scientist, DP-801/855/850/830/861/1310/1320/1350-3, Code 3104 — Provides detailed engineering support to NAVAIR on the A-4E onboard tactical computer system and Operational Flight Program, including weapons system integration. As A-6 Weapons Integration Project Engineer, provides engineering team management and acts as point of contact in technical planning, scheduling, budgeting and coordination for integration of the IR and Laser Maverick, Harpoon IC and Global Positioning System into the A-4E. Responsible for coordinating the evaluation of the contractor software and hardware integration efforts. To apply for this position forward a current SF-171 to L. Walker (Code 3104) NWC, Ph 5588. Previous applicants need not re-apply.

No. 31-122, Interdisciplinary Physicist, Mathematician, Computer Scientist, Electronics/Mechanical/Aerospace/General Engineer, DP-1310/1520/1550/855/830/861/801-2/3, Code 3111 — Position is for Simulation Software Engineer in the A-4/AV-8 Facility Branch. Incumbent will specify, design, implement, document, test and maintain real-time simulation software; present reviews and walkthrus and work with junior professional software engineers. To apply for this position forward an up-to-date SF-171 to P. LeBoeuf, Code 3102, NWC ext. 3219.

No. 26-125, Civil Engineer, DP-810-3, Code 2629 — Responsible for the planning, design, and layout of water systems. Interfaces with other branches within Code 263 on subjects relating to the Center's water system. Performs field analysis of wells, springs and ponds. To apply for this position, forward a current SF-171 to B. Williams (Code 2630), NWC, Ph 3411, ext. 365.

No. 31-123, Electronics Engineer, DP-855-2/3, Code 3115 — Position supports the development of computer facility hardware and interface equipment. Incumbent will be responsible for the design, life cycle planning and support of a complex digital electronics design and maintenance project; and a variety of other engineering design, fabrication, and integration projects. Additional responsibilities include technical supervision and monitoring of junior engineers and technicians assisting in the above activities. To apply for this position, forward an updated SF-171 to P. LeBoeuf, Code 3102, ext. 3219.

No. 31-124 Interdisciplinary (Computer Scientist, Mathematician, Physicist, Electrical/Electronics/Mechanical, General Engineer), DP-1550/1310/855/830/801-2/3, Code 3115 — Performs as software tools development leader. Responsible for interfacing with the various aircraft program offices and Code 31 division staffs in order to identify software tools requirements and to develop solutions to satisfy those requirements. Position will involve software tools development, maintenance, documentation, testing, surveys, evaluation, integration and modification. Additional responsibilities include technical supervision and direction of Junior software engineers and programmers assisting in the above activities. To apply for this position, forward updated SF-171 to P. LeBoeuf, Code 3102, ext. 3219.

No. 33-005, Mechanical Engineer, DP-830-2/3, Code 3352 — Incumbent is involved in the development of fuzing systems including integration, design, development and test of electro-mechanical devices, firing and initiation

cluding maintaining p.m. schedules, trouble logs, and spares inventory. Responsibilities will also include assisting in the operation and maintenance of the range OJ-314/0A-7821 communications distribution systems and command-control transmitting equipment. Job Elements: Knowledge of electronics, including specialized work with analog and digital systems, microwave systems, multi-line UHF and VHF communications systems, and video systems. Ability to maintain, calibrate, and troubleshoot electronic equipment.

No. V-62-006, Optical Instrumentation Technician, DT-802/856/1000, 1, 2, or 3 (3 vacancies), Code 6231 — The incumbent operates, maintains, and provides limited design and development of highly specialized optical and electronic devices and equipment to gather test data for NAVVPNCEN ranges; performs work using specialized optical, video, and tracking equipment and improves new methods and techniques for using such equipment. Assists in planning and conducting field tests. Job Elements: Knowledge of: photo-optical and electro-optical systems and their uses for gathering field test data; ability to support a specific project/program and assist project engineers in accomplishing their goals. Knowledge of: photo-optical, electro-optical equipment; data links, laser tracking, range operations, modern weapons systems, and test and evaluation operations.

No. V-64-004, Electronics Technician, DT-856-1, Code 64242 — Incumbent's duties include fabrication, testing, troubleshooting, and repair of airborne telemetry systems. Job Elements: Ability to read schematics and engineering drawings; work effectively as part of a team; functional circuit and bench fabrication techniques; operation of test instrumentation especially ground station equipment. Promotion potential to the DT-3.

No. 64-20, Electronics Technician, DT-856-2/3, Code 64211 — Incumbent's duties include fabrication, testing, troubleshooting and repair of airborne telemetry systems. Job Elements: Ability to read schematics and engineering drawings; work effectively as part of a team; to communicate effectively; soldering. Knowledge of: electronic components; functional circuit and bench fabrication techniques; operation of test instrumentation especially ground station equipment. Previous applicants need not apply.

No. 64-21, Electronics Technician, DT-856-3, Code 6421 — Incumbent is head of Test Support System and will provide supervision for a group of 8-10 Electronic Technicians. Duties include management and coordination of technical activities as well as general administrative tasks. Job Elements: Ability to support Affirmative Action (Continued on Page 7)

Secretarial opportunities

This column is used to announce secretarial 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 higher levels, secretaries apply a considerable knowledge of organization, its objectives and lines of communication. Depending on grade level, typical secretarial 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 compose correspondence and/or 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 workload of clerical staff processes; ability to plan and coordinate travel arrangements; ability to maintain and coordinate supervisor's calendar and to arrange conferences.

No. 60-002, Secretary (Typing), GS-318-4/5, Code 63T — Provides secretarial support to the Air Weapons Technology Office. Previous applicants need not re-apply.

No. 31-121, Secretary (Typing), GS-318-4, Code 3151 — Provides secretarial support to the head, Laser Systems Branch. Promotion potential to GS-6.

No. 36-148, Secretary (Typing), GS-318-4/5, Code 3605 — Part-time position. Provides secretarial support to the Software Engineering Office. Status eligible may apply.

No. V-64-003, Secretary (Typing), Code 6412 — Provides secretarial and administrative support to the head, Fleet Support Branch. Job Elements: Thorough knowledge of NWC organization and Aerosystems Department functions.

The Rocketeer

Official Weekly Publication
Naval Weapons Center
China Lake



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NWC Commander

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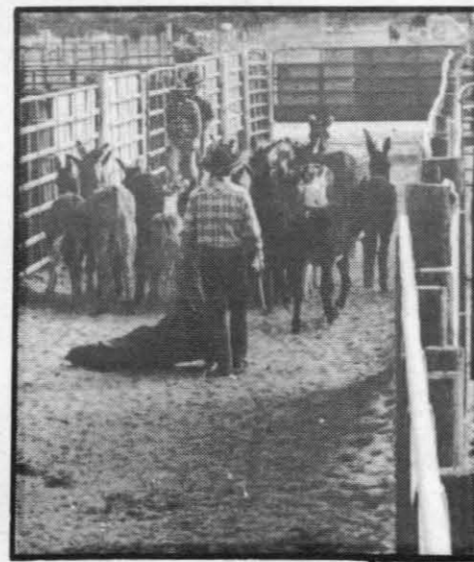
PH2 Rick Moore
PHANEG Hogan
Staff Photographers

News Stories deadline **Tuesday, 4:30 p.m.**
Photographs deadline **Tuesday, 11:30 a.m.**

The Rocketeer receives American Forces Press Service material. All are official U.S. Navy photos unless otherwise identified. Printed weekly with appropriated funds by a commercial firm in compliance with NAVISO P 31 revised May 1979. Office at Nimitz and Lauritsen. Information published in the Rocketeer does not necessarily reflect the official view of the Department of Defense. Information in the Rocketeer is authorized for public release by the Naval Weapons Center Public Affairs Officer, Code 003.

Phone 3354, 3355

Cowboys call on chopper for help



Wranglers on horseback and in the air brought about the removal of more than 600 wild horses from NWC ranges last month. The horses and some wild burros are kept at a corral off Randsburg Wash Road until adopted or shipped. The wranglers are seen herding the horses toward a capture area and assisting one that needed a little help in getting back on its feet.

Photos by
Griff Davies
PH2 Rick Moore

(Continued from Page 1)

Once the major group of burros was removed, the rate of reproduction among the horses shot up to bring about a 20-percent growth rate in the herd for the past three years.

In fiscal year 1983, the Bureau of Land Management wranglers removed 241 horses by herding them to corrals with a helicopter. That operation was shut down when it was learned that the BLM's authority to use helicopters did not extend to military lands.

The removals in fiscal year 1984 totaled 551. David Ericsson, a contractor, spent about four months in this removal since the capture could not involve herding by air. Mission impact on the Center was large, and a large amount of manpower was involved to carry out the removal that good stewardship of the land mandated.

The quick removal in January because a

helicopter could be used meant that removal costs were less and that impact on the Center's mission was also much less.

In order to ensure that the population of horses will not once more burgeon, Dr. Tom McGill, biologist for NWC, and other experts are evaluating the possible use of chemical control of reproduction in either the mares or the alpha stallions.

Anyone interested in adopting a horse can telephone Jerry Owens at (916) 443-0787 for further information about the process. Cost, depending on the age of the animal, is roughly \$100 to \$200.

Dr. McGill suggests that anyone planning to adopt a horse be aware that taming the feral horse can be a dangerous process that takes a lot of both patience and effort. Young horses tame more easily, but the new owner might have to wait for a couple of years until the horse is strong enough and big enough to ride.)



Promotional opportunities

(Continued from Page 2)

ton Plan and EEO objectives; to supervise; communicate in writing and to communicate orally. Experience in managing technical programs; electronic system testing. Previous applicants need not apply.

No. CR-8504, Publicity Clerk, AS-303-4, \$4.99 per hour, Permanent Full-Time plus benefits, Code 2241 — Incumbent serves as the assistant publicity specialist for the department and as relief for the Operations Clerk at the Information, Ticket, and Tour Office. KSAs: Knowledge of journalistic, public relations, graphic design and layout; basic office equipment, cash register. Ability to communicate effectively both orally and in writing. This is not a civil service position.

Health Expo organization starts

The first organizational meeting for Health Fair Expo 85 will be held on Tuesday at 4 p.m. at the conference room of the Ridgecrest Community Hospital.

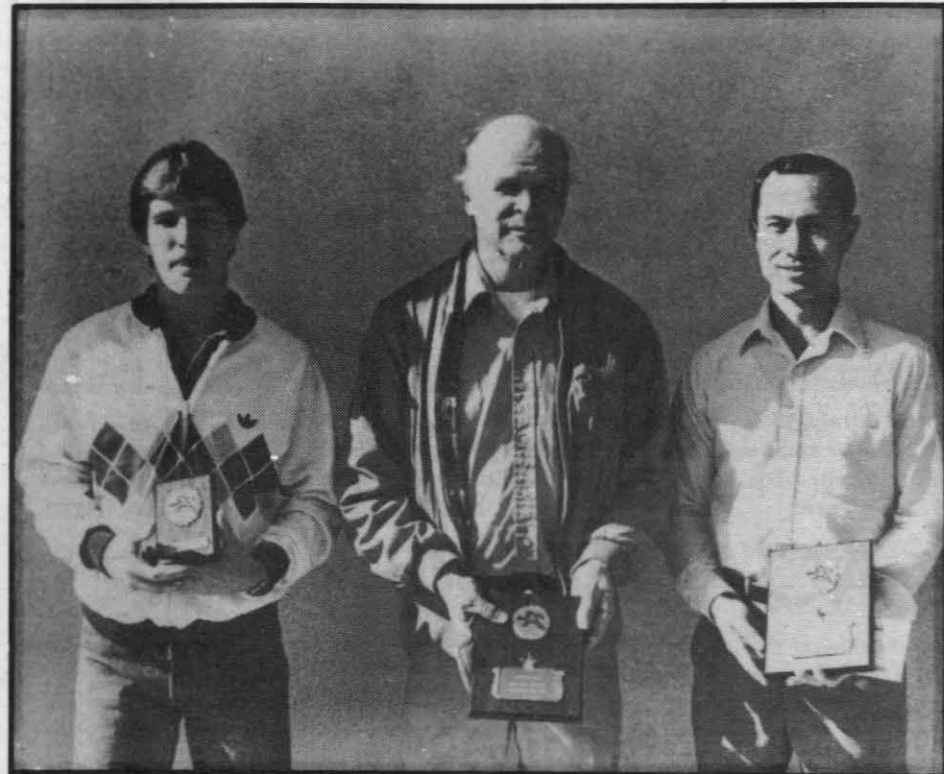
All interested persons, whether or not they have any medical background, are invited to attend since more than 100 volunteers will be needed to make this a successful event.

The health fair itself will be held on Saturday, April 13, from 9 a.m. to 4 p.m. at the Burroughs High School multiuse room.



Youth season continues at NWC

Youth Basketball play continued at the Naval Weapons Center with 10 games on tap this week. The season, now in just its second full week of play, will end in mid-March.



RACQUETBALL WINNERS — Men's doubles competition found the team of Gene Simpson (right) and Steve Finnegan (center) on top. Jeff Stanford (left) represented the third place team of Stanford and Lou Zurita. Missing was the second place duo of Miguel Avitia and Tom Dodson. — Photo by PH2 Rick Moore

Because it is strictly a recreational program, no team standings are kept for the various divisions.

Senior Division

Clippers 58, Kings 36
Eric Winter and Troy Perkins ripped the nets for 18 points each en route to the win for the Clippers. Al Dean Jones added 10 points in the 58-36 win.

Leading the Kings' attack was Paul Mantz with 12 points while Bobby Lewis chipped in with eight more.

Mavericks 56, Bullets 50
Steve Halem was a one-man attack force for the Mavericks as they nipped the Bullets 56-50. Halem scored 36 points in leading the winners.

Richard Hutchinson with 15 points and Doug Hayes with 19 points paced the Bullet game and Stacey Schoen added eight points.

Junior Division

Bucks 35, Hawks 34
The Bucks nipped the Hawks 35-34 in a game played at the gym. Patrick Gilbreath led the attack with 20 points and Matthew Plugge added seven.

For the Hawks, Chris Blank notched 10 points and they got eight points each from Blake Ashley and Tim Seufert.

Jazz 46, Warriors 20

The Jazz cagers easily stopped the Warriors, 46-20 last week. Bryon Mather led the winners with 14 points while Tom Markarian chipped in 13 points for the Jazz. The Warriors got five points from Allen Bullard and four points from Jeff Smith, Shawn Hamilton and Michael Moffitt.

Pacers 30, Lakers 27

Matt Pohl's 18 points paced the win by the Pacers against the Lakers, 30-27. Brian Brawand was next with four points.

Paul Ashton notched 10 points and Ed-

ward Hamilton nine for the Lakers in the loss.

Intermediate Division

Nuggets 46, Rockets 35
Behind Todd Mather's 30-point explosion, the Nuggets easily stopped the Rockets, 46-35. Tommy Mather added eight points in the win.

Brad Bays led the Rockets with a 10-point game while Darrel Eddins and Charles Eberhart notched six points each.

Spurs 51, Pistons 32

David Martels scored a game high 27 points to lead the Spurs past the Pistons in Intermediate Division play, 51-32. Brad Zagala contributed 16 points to the cause.

For the Pistons, Jason Rainwater's 14-point effort was high. Steven Mourtou added eight points for the losing team.

Celtics 39, Huskies 23

Chris Marshall's 12 points and a 16-point game by Mike Graves paced a Celtic win over the Huskies, 39-23.

Scott Ross and Adam Plugge added six points each for the Huskies and Mandy Cordell contributed five points for the Huskies.

Instructional Division

Nets 18, Suns 4

Tony Halem had eight points in for the Nets and Scott Foremaster added four in the 18-4 Nets' win.

Chuck Rouland and Issac Curran had two points each to account for all the scoring done by the Suns.

Stars 30, Bulls 20

The Stars got 17 points from Anthony Weber and 10 markers from Damon Kelling to beat the Bulls, 30-20. Mike Frederick added the other three points.

The Bulls got eight points from Josh Moorehead while Mark Russell and Brian Hire notched four points each.

Soccer registration opens Monday for interested youth

Youth Soccer registration for the spring season will start Monday, Feb. 4 at the Information, Ticket and Tour Office of Recreation Services.

Registration will continue through Feb. 22, with the office open from 8 a.m. to 4 p.m. Monday through Friday. All players need to be enrolled in the Youth Sports Program and must pay the required fee if not already enrolled. In addition, all players will have to pay a \$2.50 equipment fee.

All players who did not take part in the fall 1984 season, must attend evaluations in order to be properly placed according to skill levels.

Evaluations will be held at Schoeffel Field at 5 p.m. on Tuesday, Feb. 26 for first through third graders and Wednesday, Feb. 27 at 5 p.m. for fourth through sixth graders. Seventh, eighth and ninth graders and players unable to attend one of the evening sessions can come for evaluation from 9 to 10:30 a.m. on Saturday, March 2.

Players need to furnish their name, address, age and phone number at time of registration.

For more information on the Youth Soccer program for this spring call NWC ext. 2010.

Kane's 624 tops the league

Aaron Kane had a hot hand in Premier Scratch League bowling this week, rolling a 624 series and games of 234 and 223.

Ron Williams had the top single game of the night, a 256, while Earle Roby notched a 245 game and Terry Whitley a 232. Also topping the 230 level was Atton Cutsinger with a 231 total.

In team competition, E&E Upholstry

notched a high game of 1,011 and the Buggy Bath keglers rolled a 2,765 series.

The Elks Lodge team remains atop the league standings with an eight game lead over the Thrifty Wash bowlers in second place. The Buggy Bath team is just half a game out of second place and Cal Gas hold the fourth spot, a game and a half out of third.

Three squads share American Division leadership

Puccis, Reeds Raiders and the Misfits all ended the first round of Adult Winter Basketball league with 5-1 records, tied for first place in the American Division.

Golden Corral ended the first round of loop play with an unbeaten record in the National Division.

For the second half of the season, the teams will split into three divisions rather than two in order to spread the dominating teams around a little bit.

Daryl Moline was the leading National Division scorer for first half competition. The Golden Corral cager had a 25.5 per game average. In the American Division, Danny Whittenburg of the Misfits had a 22.5 per game scoring average. Third highest scoring honors went to Fisher, playing for the Clinic squad with 19.3 points per game. The only other player to average more than 18 points per game was Connie Reeder for Golden Corral with a 18.5 per game average.

Also, Guy Wellington hit for 17.3 points per game in leading the NWC Lakers to a 3-1 first half record.

Golden Corral was the only unbeaten team in the first half, while Pioneer Motel and the Little Rascals ended the first half of the season without a win.

Puccis 59, Athletes 54

The only overtime game of the first half was on the last night of play. The teams were knotted at 50-50 at the end of regulation play.

Campbell with 23 points, including four in overtime, keyed the win for Puccis to hang onto a share of first place. Dowling added nine points, three of them coming in the overtime when the winners outscored the Athletes in Traction 9-4. Pande accounted for all four points scored by the Athletes in the overtime period.

Allen with 17 and Higgins with 12 paced the losing effort in regulation play.

Billie Benton earns golf honor as the top 'ace'

Billie Benton walked off with the China Lake Women's Golf Club "Ace of the Year" award after a one-hole sudden-death playoff.

Lill Robertson had tied Benton with net scores of 72 after the 18 regulation holes. Third place honors went to Doris Lalor.

The Women's Golf Club also named new officers with Karen Collins heading the slate as president. Vice president and tournament chairman is Ruby Kolosenki while Sue Moulton is secretary and Sonja Giuliani is the treasurer.

All golfers with valid February handicaps are invited to sign up for the All Hands Valentine Tournament set for Feb. 9. The tourney pairs three Jacks with a Jill in a three best-ball foursome.

Feb. 6 is the deadline to enter the tournament.



TOP ACE — Billie Benton took "Ace of the Year" honors for the China Lake Women's Golf Club.

Also Tuesday, the KZ Kondors won their first game of the season with a forfeit win against the Little Rascals who didn't show up by game time.

First Half Standings

National Division			
Team	Won	Lost	
Golden Corral	5	0	
NWC	3	1	
Fire Dept.	3	2	
Clinic	2	2	
Meanies	1	4	
Pioneer Motel	0	5	
American Division			
Puccis	5	1	
Reeds Raiders	5	1	
Misfits	5	1	
Athletes in Trac.	3	3	
Road Runners	2	4	
KZ Kondors	1	5	
Little Rascals	0	6	

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 — Captain Dickerson, the next time you drive up Knox Road, please look to your left at the Nimitz stop sign. The power pole partially obscures your vision to see cars coming around the curve on Nimitz, and now one of the recently planted trees has grown enough so that it almost wholly blocks your vision. The potential traffic hazard of this tree won't be noticed until this spring when the tree completely leafs out. If the tree can be transplanted this winter while it is still dormant, it can be salvaged and allowed to grow into a pretty tree like the others along Knox Road. If they wait until next spring, the tree will die when they try to transplant it.

Secondly, the eastbound right-hand lane traffic on Inyokern Road ignores the yield sign in turning right at the traffic circle. The double white line is painted too far into the circle, and drivers have the impression they have the right of way. It is a very dangerous intersection.

ANSWER

Regarding the newly planted trees at the Knox and Nimitz intersection, you'll be pleased that the problem had been identified about a month ago and a decision has been made to relocate those trees with the potential of becoming a safety hazard next spring. The transplanting will take place this month or next. Thanks for bringing this to my attention anyway.

As to the right inbound lane to the traffic circle, the markings have been reviewed and found to be in compliance with California traffic engineering standards. Unfortunately, what we have here is a people problem rather than a striping problem. Some drivers have just ignored the traffic signs — mostly the eastbound traffic in the right lane has failed to obey the yield signs. Hopefully, this article plus extra attention to this area by China Lake police will solve the problem until a major road reconstruction at the circle can be afforded.

Incidentally, the double white line was extended into the circle purposely the last time road striping was done in order to solve the problem of dangerous merging actions that had been observed there.

QUESTION

Civilian employee — Why does a contractor have to be present at the time of the moving out inspection by the housing inspector? Chances are the contractor is always on the lookout for work and he can make an inspector change his report about certain things to get some more work. Something happened to me of similar nature at the time of my moving out that made me ask this question. Please clear my doubt.

ANSWER

Our present housing rehab contract is of the performance type. This is the type of contract where the contractor is responsible for deciding what work needs to be done to bring the house up to Navy standard. Since the work is fixed price, there is no advantage to the contractor by doing more work than is required. The contract also calls for someone from the contractor's shop to be present at the final inspection to write up the work order. This helps us to keep the number of days a house is vacant at a minimum. The housing staff inspects the final product to ensure that the work performed meets the standards set by P-930 Housing Administration Manual. The house is not accepted until any discrepancies are corrected. All of these actions are to improve housing availability and to ensure a properly maintained housing unit for the new occupants. Hope this answer clears your doubts.

Centerites earn plaudits for symposium papers

Four Center employees received plaudits recently in recognition of their authorship of papers presented at the Navy-Air Force Science and Engineering Symposium, held last November in Norfolk, Virginia.

Oran E. McNeil, an electronics engineer, and physicists Dr. Keith Gardner and William L. Capps, all members of the Targeting Division of the Aircraft Weapons Integration Department, co-authored a paper entitled "Stand-off Ship Targeting Classification with Radar" that was selected as the best paper in the weapons topic division at the symposium.

Ken Miller, a mechanical engineer in the Ordnance Systems Department's Thermal/Structures Branch (Code 3242) authored a paper entitled, "Recent Developments in Superplastic Forming/Diffusion of Titanium Matrix Composites with Titanium Matrix Composite Reinforcement," which was selected as the best Navy paper in the manufacturing production technology field.

The efforts of these individuals were part of 115 presentations made by members of various Naval and Air Force research and development facilities from across the nation. The presentations discussed such topics as flight vehicles, materials, geophysics, propulsion and power, and electronics and computer science, aside from manufacturing technology and weapons, according to Capt. J. B. Anderson, Assistant Commander for Research and Technology, Naval Air Systems Command.

Miller's paper outlined the cost and manufacturing advantages of recent developments in using "Expanded Core" and "Expanded Tube" super-plastic forming/diffusion bonding techniques for making complex, lightweight titanium metal structures for high performance missiles.

These new methods reduce fabrication and labor costs, increase the versatility of missile structure materials, and allow the use of metal matrix composites. McNeil, Gardner, and Capps' paper detailed current research in developing and testing a new radar system, the AL-137, made by Texas Instruments. The radar system tests are part of a co-operative effort between NWC and the Naval Research Lab in Washington D.C.

For their efforts each person received a plaque given out during an awards ceremony at the close of the symposium and, in addition, a letter of appreciation signed by Capt. K. A. Dickerson, Commander of the Naval Weapons Center.



BEST PAPERS — Oran E. McNeil, William Capps, and Ken Miller (l. to r.) hold the plaques they received recently for the top papers they presented at the Navy-Air Force and Engineering Symposium held in Norfolk, Virginia. Dr. Keith Gardner, who helped co-author the McNeil and Capps' paper was not present. — Photo by PH2 Rick Moore



RIBBON CUTTING — Capt. P.D. Stephenson, NWC Chief Staff Officer (left) and Gerry Schiefer, Deputy Technical Director (center), were the main speakers at a brief ribbon cutting ceremony yesterday morning that opened the new Armitage Field gate and road to traffic. The ceremony marked the completion of more than \$4 million worth of improvements in the Naval Air Facility area. — Photo by PH2 Rick Moore

Education theme of Black History Week events planned next week

An outstanding series of programs have been planned in honor of Black Progress Week, starting Sunday and running through next Friday.

Theme of the week is "Education, the Key to the Future." In keeping with this theme, the honored guest speaker at Friday's banquet highlighting the week will be Wilson Riles, who was elected to three terms of office as Superintendent of Public Instruction for the State of California (1970 through 1982).

Tickets for the banquet may be obtained through close of business Monday from the EEO office in the Personnel Department Building, 505 Blandly Avenue, or from members of the Black Interest Group.

The evening will begin with a social hour at 6 p.m., followed by a top sirloin steak dinner at 7. Riles will speak at about 8 p.m., to be followed by dancing to the music of a Navy band from San Francisco. Cost of the

evening is \$13.50 per person, including dinner.

The week's events begin Sunday afternoon at 4 at the All Faith Chapel when parishioners from the Union Baptist Church, Ridgecrest, and the Pleasant View Baptist Church of Bakersfield will present joyful singing and inspirational speeches. Everyone is welcome to attend.

On Tuesday the traditional soulfood luncheon will be held at the East Wing of the All Faith Chapel. A donation of \$3.75 per person will ensure that those attending between 11 a.m. and 1 p.m. will be able to eat generous quantities of delicious fried chicken, potato salad, string beans, corn bread, dessert and punch. Tickets for the lunch, which is sponsored by the National Association for the Advancement of Colored People, may be purchased at the door.

On Wednesday a film festival at Room 1000D in Michelson Laboratory will feature a three part film entitled "The Different Drummer: Blacks in the Military." The film festival will be held from 8 to 11:30 a.m. and from 1 to 4:30 in the afternoon. Also to be shown is a short film entitled "Bill Cosby on Prejudice." No advance registration is required to attend either film showing.

TD seminar speaker to discuss role of corporate culture

How to determine the nature of the corporate culture of an organization and how to determine whether this corporate culture helps or hinders the success of the organization will be the topic of a Technical Director seminar at 9:30 a.m. on Friday, Feb. 15, in the Michelson Laboratory Auditorium (Rm. 1000D).

Dr. Terry Deal, co-author of the internationally acclaimed book "Corporate Cultures," will be the guest speaker. He will discuss how the cultures, values and beliefs of an organization define what the organization is in the fullest sense of the word, both to its own people and to outsiders.

Along with his extensive teaching experience at Harvard, Stanford and Vanderbilt Universities, he has served as an advisor to many of the nation's leading corporations and organizations, such as American Electronics Association, Digital Equipment Corporation, Hewlett Packard, AT&T, IBM, Johnson & Johnson, and Pacific Northwest Bell.

All Center personnel are invited to attend the seminar to hear Dr. Deal's talk.

Research chemists. . .

(Continued from Page 1)

railroad fires like those that occurred in the past can be prevented. To accomplish this difficult task, chemists must find materials that have greater thermal stability such that they "cook off" benignly (burn, not detonate) if exposed to fires. Such characteristics are also important when munitions must be demilitarized.

Research is also directed toward finding new very high energy, high density materials that will produce a bigger "bang" than those currently in use. Missiles are volume limited systems, and higher density, more energetic materials will better use the volume available in the warhead for explosive material.

In addition, the chemists also are investigating new primary detonant materials. Lead azide, now in use, must be replaced. The Naval Sea Systems Command has decreed that "Thou shall get the lead out!"

The Naval Surface Weapons Center at White Oak is working on qualification of a new detonant, DXW-1, to replace lead azide. Research at NWC is directed toward the synthesis and characterization of other potential replacements for lead azide.

The new materials developed for munitions applications must be made from starting materials that are available, cheap, and non-exotic. These energetic materials must be readily producible and maintainable.

The sensitivity of the compounds must be controllable, either intrinsically or by use of stabilizing additives, in order to minimize or exclude accidental initiation. They also are required to be thermally stable so that they will not cook off violently if exposed to fire.

Since manufacturing explosives and pyrotechnics is a multi-billion dollar industry, improvements have to be dramatic rather than incremental so that the improvement obtained makes changes in the manufacturing process cost effective.

Formulating new compounds is an art. It used to be practiced in an "Edisonian" fashion, whereby all possibilities were compounded and tried, but such methods are not as practical as doing literature research and then following up with calculations of explosive properties of the materials that "look good."

The intuitive approach has its application; however, the pragmatic approach of checking the literature, doing calculations on proposed molecular structure, then attempting the synthesis, better serves the Navy's needs.

The majority of the materials developed by the Energetic Materials Synthesis Program will have application as plastic bonded explosives (PBX). In a PBX, the explosive component is suspended in a polymeric matrix (generally an inert plastic binder). The interaction of the polymer matrix and the explosive fill imparts the appropriate mechanical properties to the resulting explosive.

Similar technology applies to propellant formulations. Mechanical properties and performance needed are determined by the diverse requirements of the conventional weaponry now in use and those expected to

be in use in the future.

"Each type of ordnance has its own unique requirements," says Dr. Atkins, "and no one material will solve all the Navy's needs."

NWC scientists are recognized nationally for their skill and contributions to the area of energetic materials. They were successful in the synthesis of Hexanitrobenzene (HNB). HNB at the time of this successful synthesis was the most powerful and dense nitrocarbon explosive yet synthesized.

Russian scientists were reported to have prepared HNB according to procedures they discovered in captured German documents in World War II. No western scientist, in spite of extensive efforts to do so over the last 30 to 40 years, had been able to accomplish this task.

About six years ago when three of the scientists in the Explosives Synthesis Group pursued what Dr. Atkins calls some "off the wall" ideas, Dr. Arnie Nielsen successfully synthesized this material. HNB has excellent explosive properties, but its chemical reactivity and sensitivity preclude its application in ordnance.

Advances such as these have attracted funding for the branch's synthesis efforts from a variety of sources, both on and off-Center. On-Center funding comes from Independent Research (IR) and Independent Exploratory Development (IED); this is supplemented by funds from NAVSEA as well as basic research funds from the Office of Naval Research.

The risk and the payoff for the work performed by the Energetic Materials Branch are both high. A new insensitive high performance explosive has recently been developed by Dr. Bill Norris of the branch.

Funded initially by NWC IR sources, the work transitioned via fiscal year 1983 and 84 IED funding to NAVSEA Exploratory Development funding this fiscal year.

Work funded by NAVSEA will support scale-up of the synthesis of this new explosive and the exploratory formulations work required to move this material toward qualification as a Navy explosive.

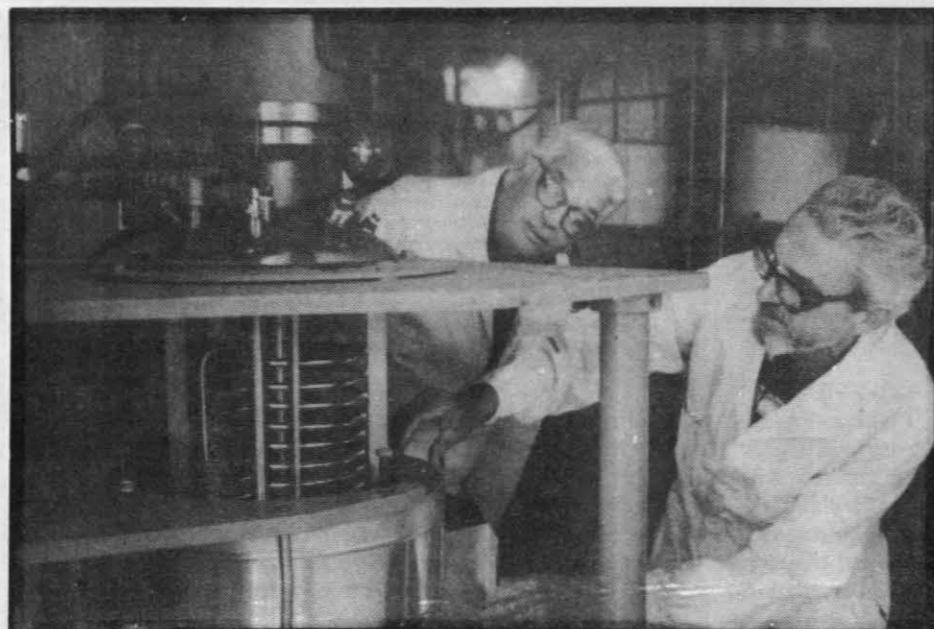
A major goal of the chemists working in this program is to gain understanding at the molecular level of energetic materials, and to gain insight into the fundamental chemical phenomena that determine the chemical and physical properties of these energetic materials.

"We don't know how to predict sensitivity, and don't really understand well how to mediate processes that lead to initiation and violent reactions in explosive," says Dr. Atkins. "Improving our understanding of the chemical reactivity and sensitivity of energetic materials at the molecular level will allow the design of better explosive molecules."

"As a result," he notes, "the Research Department is doing basic research in an area that will have a direct practical impact on the Navy's mission."

Navy Hotline

for Fraud, Waste and Abuse
Call: (800) 522-3451 (toll free)
288-4743 (Autovon)
(202) 433-6743 (commercial)



STUDYING THE SITUATION — Dr. Bill Norris (foreground) examines a 5-gallon chemical reactor as Ed Roy watches. — Photo by PHAN Greg Hogan

Local observance of Nat'l Prayer Breakfast slated at CPOM Thurs.

Everyone planning to attend the local observance of the National Prayer Breakfast that will be held on Thursday, Feb. 7, has only a few days remaining to get a ticket for the event.

The donation for the ticket is \$3.25 per person, and tickets are available at the All Faith Chapel Office as well as from members of the Thursday morning Men's Prayer Breakfast Committee.

The breakfast, which gets underway at 5:45 a.m., will be held in the Chief Petty Officers' Mess. All interested persons are invited to join with the members of the Chapel's four congregations in attending.

The primary speaker during the program will be Rose Varga, well known in the local

area for her volunteer activities. Mrs. Varga is a member of the All Faith Chapel Hebrew Congregation.

Also on the program will be the handbell choir, directed by Sandra Raines, who will be the soloist for the morning.

The program will begin with Lou Czerwonka giving the opening prayer. RPI Edward Arnold will lead the members in the pledge of allegiance, followed by Chaplain Jason Knott giving the invocation.

Russell Pair will lead the congregation in group prayer and Chaplain Milton Collins will end the program by giving the closing prayer. Audience singing will be led by Sandra Raines. Chaplain Aquinas Jack Smith will give the benediction.

Long term training meeting set

Anyone with any questions about the Center's Undergraduate Long-Term Training Program is invited to attend an informal, 1½-hour briefing about the program on Friday, Feb. 8, at 10 a.m. in Annex 1 behind the Training Center.

Nancy Saxton, Steve Lee and Fred Bien will answer such questions as who is eligible to go on such training? What preparation is needed? How can applications be made? What local options and programs

are available? What academic programs are on the horizon at NWC?

All those interested in long term training (either graduate or undergraduate) are reminded that the deadline for applications is March 1.

Further details about submitting the applications for this training can be found in the Rocketeer published Jan. 18 and will run again in next week's Rocketeer.

China Lake Police reports

A child endangerment report was filed on Friday because a child was left in a vehicle while a suspect was working inside. The mother of the child was contacted, and the child taken home.

DOG GONE

A resident in Capehart B housing reported that a registered Yorkshire terrier was taken from the backyard of the residence. Value of the missing dog is \$435.

LEMON LOT PROBLEMS

Vehicles at the lemon lot were the target of problems, according to two separate reports filed with China Lake police on Jan. 24. A convertible top on a vehicle parked there was slashed; damages reported were

\$125. A Toyota Starlet vehicle was stolen from the lot. The Toyota was valued at \$4,500.

WHEEL ASSEMBLY TAKEN

On Wednesday, Jan. 23, a grand theft of a wheel assembly taken from an aircraft was reported at Armitage Airfield. Value of the missing assembly is \$1,925.

PRINTER MISSING

A printer that had been sent to a factory for repairs has never been seen again, according to a report filed Jan. 24. The missing printer is valued at \$1,942.

GENERATOR STOLEN

Police received a report Monday that unknown persons had removed a generator from around the area of the Coso Hot Springs gate. The value of the generator is \$2,000, making this a grand theft.

JACKETS SWIPE

Unknown persons entered the sick bay at Armitage Airfield and removed three flight jackets, according to a report filed Monday. The missing jackets have a value of \$306.

PAGER REMOVED

Another light-fingered person removed a pocket pager from the telephone building back of the Headquarters Bldg. The missing pager has a value of \$292.50.

DRIVER ARRESTED

Police stopped a car that was weaving on the road on Tuesday, found that the driver was under the influence of alcohol, and took the individual to the police station for a 5-hour stay. At the end of that time, the driver was cited and released.



Military News

Top reserve sailor saluted by NWC Support Unit 0176

Aviation Fire Control Technician First Class Glenn E. Risley has been selected as the 1984 Sailor of the Year for NWC Reserve Support Unit 0176.

AQ1 Risley, a career counselor with the unit 0176, has been a member of the Naval Reserves since November 1981, after having served eight years of active military duty with the Navy.

NWC Reserve Support Unit 0176 drills at NWC and provides support to the Center's mission. Currently the reserve unit is com-

prized of nine officers and 50 enlisted personnel.

In his selection comments, Capt. James Compardo, Commander for the unit, stated, "Your professionalism and dedication place you in a position of high esteem by all members of this unit." Capt. Compardo also praised AQ1 Risley for showing sincere interest in the welfare of each and every one of his fellow unit members.

As a civilian, AQ1 Risley is employed in the Aircraft Systems Engineering Branch (Code 3143) at NWC.



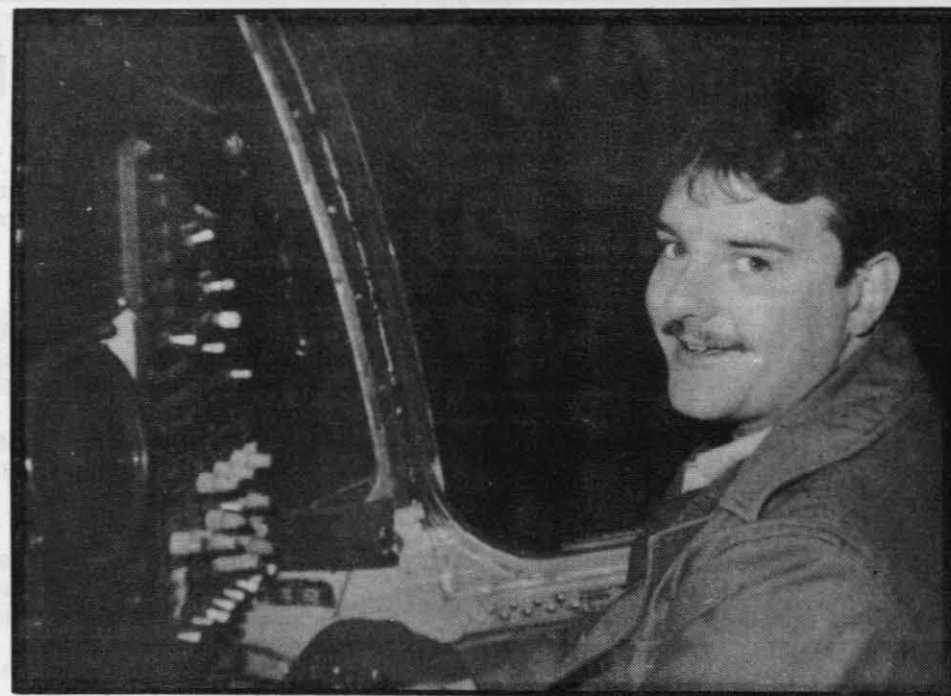
AQ1 GLENN RISLEY — Sailor of the Year for 1984 in the NWC Reserve Support Unit 0176 is Aviation Fire Control Technician Glenn E. Risley, a veteran of eight years active duty and three years in the Naval Reserves.

Selection board considers sailors for high honor

The selection board for the China Lake nominee for High Desert Military Person of the Year will meet on Feb. 14 to choose who will represent the Navy for the Civilian Military Affairs Council award.

All tenant commands as well as NWC can submit nominations. The person selected must be an E-4 or below (or, if frocked to E-5, the person cannot be advanced to that rank before April 16).

The China Lake nominee will then compete against nominees from Edwards and George Air Force Bases; the National Training Center and Fort Irwin Rebuild Center; and the Marine Corps Logistics Base at Barstow. The winner will be announced at a ball to be held at the Marine Corps Logistics Center on March 23.



PROUD VAMPIRE — AQAN Joshua Wilkerson, sitting in the cockpit of an A-6E, is all smiles after being selected as Air Test and Evaluation Squadron Five's January Sailor of the Month. The 3-year Navy veteran is assigned to the squadron's Integrated Weapons Team. — Photo by PHAN Greg Hogan

VX-5 honor to AQAN Wilkerson

by PHAN Greg Hogan

Air Test and Evaluation Squadron Five (VX-5) named Airman Joshua J. Wilkerson as Sailor of the Month for January.

Airman Wilkerson, a fire control technician, is assigned to the Integrated Weapons Team at VX-5. He was nominated for the honor by AQ1 Roy J. Harmon, his supervisor.

As a member of the Integrated Weapons Team, AQAN Wilkerson is responsible for testing, troubleshooting and performing organizational maintenance on radar, navigation and weapons delivery systems on the A-6E, A-7E and F/A-18 aircraft.

"His ability to grasp knowledge and his motivation to put new-found skills to work enable him to be an excellent instructor for

all his shopmates," said Petty Officer Harmon.

Prior to arriving at VX-5 in September 1983, Airman Wilkerson was stationed at Naval Air Station, Whidbey Island, Wash., where he was assigned to VAQ-128.

AQAN Wilkerson, a native of McHenry, Ill. and his wife, Lois, enjoy skiing and playing racquetball in their free time.

College level exams offered next week

College entrance exams and the College Level Exam Program tests will be administered to interested military personnel at China Lake next week.

Jim Lozier of the Navy Campus Program will visit the Naval Weapons Center to administer the tests. SH1 Madison Bryson, Education Services Officer, said anyone interested in taking any of the exams must call him at NWC ext. 2165 to order the tests needed.

Petty Officer Bryson noted that he needed to have all the requests in to his office by 2 p.m. Monday, Feb. 4.

Lozier will also be available to counsel military personnel on educational opportunities and to review the latest Veterans Administration benefits.

CLEP tests are administered in five general areas: physical science, natural science, math, social studies and language. In addition, specific course tests are avail-

able. Petty Officer Bryson noted the Scholastic Aptitude Test and American College Test will also be available. These are primarily for enlisted personnel seeking to qualify for officer training.

The tests will be given to all interested personnel, including those from tenant commands at NWC.

For more information call Petty Officer Bryson at NWC ext. 2165.

Car safety seats available for rent by military families

Military families who do not have car seats for their children are able to rent these from the Children's Center under the Brophy Car Seat Loan Program.

California state law requires that any child 4 years of age or under, including babies, or any child who weighs less than 40 pounds must be in an approved car safety seat whenever in a vehicle.

Military personnel may rent their car seats from the Children's Center at a cost of \$15 for three months. When the car seat is returned in reusable and clean condition, \$10 of the \$15 deposit will be refunded.

If there is a need to keep the car seat for longer than three months, the family may immediately check it out again.

Car seats are available at the Children's Center Monday through Friday, 7:30 a.m. to 4:30 p.m. Anyone wishing further information can obtain this by telephoning the Children's Center at NWC ext. 2735.

NEX customers reminded of rules on purchase orders

Navy Exchange customers are reminded that all merchandise ordered within in the continental limits of the United States (CONUS) must be validated by NEX personnel when the "identification check" section is filled out for CONUS-originated purchase orders.

The only exception to this policy is when the customer attaches travel orders (TDY or TAD) to the order as proof of recent travel overseas.



USE OF FIELD STOVES DEMONSTRATED — MS1 Robert Voight demonstrates how to light the burners for field stoves to (l. to r.) MSC Mario Estrada, MSC Paul Anies, MS1 Ricardo Puzon, and MSSA Judy Rolfe. In case of any sort of disaster or emergency, these field stoves would be used to ensure that hot food was available to local military personnel. — Photo by Jim Baldwin

