

MOVIES

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

Regular starting time 7:00 p.m.

FRIDAY "RAGGEDY MAN" APRIL 2
Starring
Sissy Spacek and Eric Roberts
(Drama, rated PG, 98 min.)

SATURDAY, MONDAY "TRUE CONFESSIONS" APRIL 3, 5
Starring
Robert DeNiro and Robert Duvall
(Drama, rated R, 114 min.)

SUNDAY "SONG OF THE SOUTH" APRIL 4
Starring
Ruth Warrick and Bobby Driscoll
(Musical-fantasy, rated G, 95 min.)

TUESDAY "THE FOX AND THE HOUND" APRIL 6
Matinee — 2 p.m.
Starring
Mickey Rooney and Kurt Russell
(Animated, rated G, 110 min.)

WEDNESDAY "VICTORY" APRIL 7
Starring
Sylvester Stallone and Michael Caine
(Melodrama, rated PG, 117 min.)

FRIDAY "FLASH GORDON" APRIL 9
Starring
Sam J. Jones and Melody Anderson
(Action-drama, rated PG, 112 min.)

SATURDAY "ALICE IN WONDERLAND" APRIL 10
(Animated, rated G, 75 min.)

SUNDAY "PATERNITY" APRIL 11
Starring
Burt Reynolds and Beverly D'Angelo
(Comedy, rated R, 94 min.)

CPO Wives to host get-acquainted coffee at CPO Club Tues.

A get-acquainted coffee for the wives of all E-7s, E-8s, and E-9s, particularly those who are new to the Naval Weapons Center, will be held by the Chief Petty Officers' Wives Club on Tuesday, starting at 7:30 p.m. at the CPO Club.

For those who need it, transportation to and from this social event can be arranged by calling Lynette Hoelzle at 446-6651.

According to Karen LaBrie, president of the CPO Wives Club, the group is now accepting applications for the two \$100 scholarships that will be given to Burroughs High School seniors at graduation time in June.

To be eligible to receive one of these scholarships, the applicants must be a dependent of active duty or retired enlisted military personnel. Scholarship application forms can be obtained at the Burroughs High School office.

Annual elections to highlight next mtg. of WACOM April 13

Two events will highlight a meeting of the Women's Auxiliary of the Commissioned Officers' Mess on Tuesday, April 13: elections for the coming year's officers, and a program by bass-baritone Clair Wilcock.

The proposed slate of officers is Vivian Wright for president; Helen Estell, vice president; Wilma Gartrell, secretary; and Tina Knemeyer, treasurer. Nominations from the floor will also be accepted prior to balloting.

The meeting will begin with a social hour at 11 a.m. at the Commissioned Officers' Mess, followed by lunch served at 11:45. The soup and salad lunch costs \$3.75. After lunch, Wilcock will sing ballads and show tunes.

Reservations or cancellations may be made by telephoning either Dayle Huckins at 375-7655 or Ann Myer at 375-2004.

Farewell lunch Apr. 22 honors Cmdr. Patterson

A farewell luncheon honoring Cdr. Perry S. Patterson will be held on Thursday, April 22, at the Commissioned Officers' Mess, starting at 11:30 a.m.

Reservations for the luncheon will be accepted by Dottie Tidwell or Jean Butler, NWC ext. 2203, and should be made by noon on Monday, April 19. Luncheon choices are a chef salad for \$3.75 or teriyaki steak for \$4.10.

Donations for a farewell gift should be directed to Code 022, Rm. 1022, Administration Building.

Cdr. Patterson's new duty assignment is that of Executive Officer, Legal Service Office, Naval Station, San Diego.

Thrift Shop sale slated

Bargain hunters will have a great time at the Thrift Shop next Tuesday and Thursday — it's dollar-a-bag sale time once more. (The Thrift Shop furnishes the bags for this sale.)

The shop, which is located on Lauritsen Road across from Schoeffel Field, is open on Tuesdays from 7 to 9 p.m. and on Thursdays from 10:30 a.m. until 12:30 p.m.



SIDEWALK SUPERINTENDENTS — Dr. E. K. Kutchma, (l.), head of the Aircraft Weapons Integration Department, and two new division heads in his department seem pleased with progress being made on the building (seen behind them) that will house their operation. Jay Crawford (center) has recently been appointed as head of the Avionics Facilities Division (Code 311), and Bill Ball heads the Tactical Software Engineering Division (Code 319).

Kindergarten registration to be by appointment only this month

Kindergarten registration for children in the Ridgecrest, China Lake, and Inyokern areas will be handled on an appointment only basis from April 12 through April 22. Appointments will be available only during morning hours and may be obtained by calling 375-4461.

To be eligible to attend kindergarten during the 1982-83 school year, children must be 5 years of age on or before December 1, 1982. Proof of age must be presented at the time a child is registered. A birth certificate, duly attested baptismal certificate, passport, or an affidavit legally executed by a parent, guardian, or custodian of the child will be recognized as proof of age. Affidavit forms may be obtained from the Sierra Sands Unified School District Office at 113 Felspar, Ridgecrest, prior to registration.

The state of California requires that children have a series of immunizations before entering kindergarten. These immunizations include the following: a series of three DPT (diphtheria, whooping cough, and tetanus) and a booster after the age of 2, a series of two polio and a booster after the age of 2.

The district nurse will be available to check the hearing and vision of prospective kindergartners during the registration process.

Further information about the registration process may be obtained by calling the district office at 375-4461.

All military wives invited to meeting to get acquainted

All military wives and their guests are invited to attend a "Let's Get Acquainted" evening on Tuesday, April 13, at 7:30 p.m. at the east wing of the All Faith Chapel.

Capt. Lahr will be on hand to welcome all those who attend. A highlight of the evening also will be a movie, "For Jamie," about safety for children who are riding in automobiles.

Free child care will be available at the main Child Care Center in Bldg. 468. Those who wish to use this babysitting service are asked to telephone Diane Wadelin at 377-4594 after 5 p.m. any day between now and April 8.



HAPPY OCCASION — Ken Hedden (as Tommy Grant) dances Dalene Howard (as Honey Houston) around the floor in a scene from "Handful of Rainbows." The play will be seen tonight and tomorrow night at 8:15 at the Burroughs High School lecture center. General admission tickets are \$3.50; students, senior citizens and enlisted military get in for \$2.50.

Translator module for Channel 7 to be repaired next week

Television watchers in the Indian Wells Valley will have to switch their sets to an unaccustomed channel to receive Channels 63 and 7 for a few days next week, starting on Monday. The equipment that normally carries KABC-TV, Channel 7, Los Angeles, has a broken module, which will be replaced in about a three-day period.

During the time that this is being done, KABC will be carried on the translator operating on Channel 47, which normally carries KBSC, Corona.

Work is also being planned that should correct problems with the translators for Channels 67 and 11.

The Indian Wells Valley TV Booster is an all-volunteer organization, which welcomes comments, assistance and contributions from local viewers. Membership is only \$10 per year. The Booster may be contacted by writing P. O. Box 562, Ridgecrest, CA 93555.

Weekend Roundup

CLOTA's production of "A Handful of Rainbows" will be presented tonight and tomorrow night at 8:15 in the Burroughs High School lecture center. General admission tickets are \$3.50, with students, senior citizens, and enlisted military being admitted for \$2.50.

The 1982 Heritage Days celebration (scheduled for April 24 and 25) will get underway tonight at 7 p.m. at the Cunningham Art Gallery, 1930 R Street in Bakersfield with the annual wine tasting party.

For a \$2.50 donation at the door, guests will be able to sample wines chilled in an ice-filled four-footed turn-of-the-century metal bathtub. Cheeses, hors-d'oeuvres and non-alcoholic punch will also be served.



READY TO LEARN — Young John Paul Escallier gets a hearing tested in preparation for entering kindergarten.

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NAVAL WEAPONS CENTER
CHINA LAKE
CALIFORNIA

April 2, 1982

Vol. XXXVII, No. 13

Lives saved each year because courage, skill, dedication of SAR crews result in rescues

At least five persons are alive today who would not have survived fiscal year 1981 except for the skill, courage, and dedication of the Naval Weapons Center's Search and Rescue (SAR) personnel. In each of these five credited "saves," the individuals would probably have died if SAR crews had not been on the job.

Sixteen civilians and five military personnel were either rescued or medically evacuated by crews manning the two UH-1N twin-engine Huey helicopters assigned to NWC. These aircraft flew 17 rescue assistance missions from Oct. 1, 1980, through Sept. 30, 1981.

Ten of these missions — and a mission can involve several flights covering more than one day — were SARs, with crew members either searching for missing persons or rescuing them from ledges or rivers or other places where they were stranded. The other seven missions involved transporting victims that had been located to essential medical care.

Two of the year's flights were made in response to "mayday" calls from military aircraft. One of these was from an Army helicopter in the Panamint Valley, and the other from a Marine F-4 aircraft on NWC's Echo Range.

While these statistics are impressive, they don't convey the drama inherent in the work of SAR crews, or the flying skills and judgment that these operations demand.

Most local SAR flights involve operations in the Sierra, where high winds and deep snow increase the hazards for a helicopter already pushing its flight ceiling. On some missions, a crew member has had to be "dropped off" further down the mountainside to lighten the helicopter so it could get where a stricken climber awaited rescue.

High winds and tricky air currents also make flying near rocky ledges in places like Death Valley hazardous, to say nothing of the flights that have had to be made in the past to pull stranded inner tube riders or kayakers from rocks in the middle of a rampaging Kern River in Kern Canyon.

To keep their rescue skills sharp, the Center's SAR crews take part in an average of 15 rescue drills each year. Most of these

involve 2- to 3-hour training flights while some are held in conjunction with the China Lake Mountain Rescue Group, some in conjunction with the Indian Wells Valley Search and Rescue Group, and some are like the disaster exercise held recently when an aircraft crash was simulated.

Mostly, however, their flying skills stay tuned to top level through their work with project flights and logistics, since SAR is a secondary duty for these crews.

The crews alternate on standby duty. If a call comes in, crew members are summoned by either telephone or beeper to the airfield to prepare for a SAR response.

Calls can come in through two methods: SAR crews may be alerted by sheriffs or other law enforcement personnel, or they may get a call directly from the nationwide SAR Coordination Center headquartered at Scott Air Force Base, Ill. (If the call comes initially from any other source, it is always then coordinated through Scott AFB as well, to ensure that two or three SAR teams will not converge on one spot while a call for help elsewhere is being ignored.)

Survival and emergency medical equipment is maintained in lockers at Armitage Airfield at all times in a ready condition so that crew members can quickly select the items that will be needed for a particular flight. Extra fuel is available through a support fuel truck which can be driven to remote staging areas as far away as Bishop and Death Valley. Everything is kept ready so that the time between the call for help and getting airborne is minimal, because even a few minutes can sometimes be critical to the success of a SAR operation.

LCdr. Chip Lancaster, who serves as a SAR pilot, says that "As Search and Rescue is a secondary mission to all Navy helicopter units, search and rescue is inherent in all Navy helo crews. Every helicopter pilot and aircrewman is trained in search and rescue techniques starting in basic training and advancing through squadron-peculiar techniques ranging from aircraft carrier operations to overland combat SAR to astronaut recoveries.

"This training is based upon the helicopter's intrinsic ability as a rescue vehicle, especially for overwater operations. Since its introduction as a useful machine, the Navy has invested millions of dollars in SAR operations development and crew training. This considerable investment has resulted in the significant return of countless personnel to active duty who would have otherwise been lost.

"Like any other profession, to successfully employ one's skills to meet its highest demand results in a supreme sense of satisfaction. To save a life is a culmination point of the helicopter crewman's training and results in a feeling of accomplishment akin to no other," LCdr. Lancaster concluded.

Pilots of the SAR helos are LCdr. Lancaster, LCdr. Byron Dieckman, Lt. Col. Scott Smith, Lt. Denny Wilcox, and LtJg. Brent Norman.

Crewmen assigned are A01 Skip Colson, AT3 Richard Jones, A03 Tim Hill, A03 John Schatz, AMS3 Mike Clenney, and AMH3 Mike Granato. Hospital Corpsmen from the branch clinic of the Naval Regional Medical Center who fly as part of the SAR crews are HM3 Stephanie Bright, HM3 Michael Buckelew, and HA Mark Harrington.



EVACUATION PRACTICE — During a recent crash drill, the SAR helo flew "victims" to the helipad near the Ridgecrest Community Hospital where, with the assistance of ambulance crews, they could be taken to the hospital for care. The helo also landed on the front lawn of the NRMC branch clinic at China Lake to bring in the "injured" for care during the practice exercise.

Decisions not yet made

Base Operating Support contract study mandated by Circular A-76

Approximately 250 jobs at the Naval Weapons Center are currently being studied to determine if they could more economically be performed by a contractor under a Base Operating Support Contract. This study is part of the procedure mandated by the Office of Management and Budget (OMB) under the requirements of Circular A-76.

This circular requires that all commercial activities in all federal agencies that can more economically be operated by private sector organizations must be contracted. Economy of operations is determined by a cost comparison study using the procedures of the OMB Cost Comparison Handbook.

Currently being considered in this year of the five-year study cycle are the operation and maintenance of transportation; supply operations other than food service, contracts, and aviation supply; and family housing maintenance. The employees affected by the study were notified in December 1980 that these functions were being studied, and it will, unfortunately, be another several months before they learn whether they will be affected by contracting out.

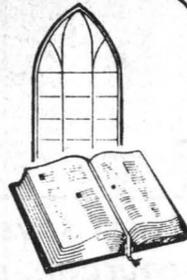
The required cost comparison study takes several steps. First, since the in-house bid on the contract requires that it be based on the most cost-effective and efficient operation, a management analysis must be carried out to establish what the most cost-effective and efficient operation is. A statement of the work required must then be written so both the government and industry bid on the same statement of work and level of performance.

The procurement cycle is then followed. Competitive bids are submitted; the government then becomes one of the bidders. If the lowest bid is that of the government, the work remains in house. If a



VICTIM'S EYE VIEW — The Center's orange and white Search and Rescue helicopter is one of the most valuable sights in the world to those on the ground who have been missing, who are stranded in areas from which they find it impossible to get out by themselves, or who need to be evacuated for medical help.

HOLY WEEK SERVICES



The following is the schedule for Catholic and Protestant services at the NWC All Faith Chapel during Holy Week, which begins this Sunday (Palm Sunday) and ends on Easter Sunday, April 11. All services will be held in the Main Chapel unless otherwise noted.

CATHOLIC CONGREGATION

Palm Sunday, Masses at 8:30 and 11:30 a.m.
 Monday, Wednesday, 11:35 Mass at Blessed Sacrament Chapel
 Holy Thursday, Mass of the Lord's Supper, 6 p.m.
 Good Friday, Liturgy and Communion Service, 6 p.m.
 Holy Saturday, Easter Liturgy, 1st Mass of Easter, 7 p.m.
 Easter Sunday, Easter Mass of the Resurrection 8:30 and 11:30 a.m.

Confession Schedule

Monday, Communal Penance Service 7 p.m.
 Confessions, 15 minutes before Masses on Palm Sunday, Monday and Wednesday.

PROTESTANT CONGREGATION

Palm Sunday Service, 10 a.m.
 Maundy Thursday Communion Service, 7 p.m.
 Good Friday, 11:45 a.m., Small Chapel
 Easter Sunday Service, 10 a.m.

On Maundy Thursday, April 11, there will be a sacrificial soup supper in the East Wing, at 6 p.m. Donations are \$2 for adults and \$1 for those 11 years of age and under. Proceeds will be sent to the local Salvation Army food cupboard.



1982 JANNAF PSHC mtgs. slated for Michelson Lab April 19-22

The 1982 meeting of the Joint Army-Navy-NASA-Air Force (JANNAF) Propulsion Systems Hazards Committee (PSHC) will be held at the Naval Weapons Center from April 19 through 21 in the Michelson Laboratory auditorium, and also in Conference Rm. B-C.

Thomas L. Boggs, acting head of the NWC Research Department's Aerothermochemistry Division, who also is a member of the JANNAF Executive Committee, will serve as chairman of the meeting.

The PSHC was established to assess and reduce hazards associated with missile and gun propulsion systems. The committee is composed of representatives of the Department of Defense, the National Aeronautics and Space Administration (NASA), contractors, and universities, and the upcoming gathering is expected to attract nearly 100 visitors.

This year's meeting will feature sessions on gun propulsion hazards associated with aircraft and air-launched tactical missiles, fragment impact, sympathetic detonation, and cook-off of ordnance.

In addition to these sessions for specialists in their field, there will be a day devoted to "Hazards as Seen by the User." The latter will include hazards as seen by the ordnance officer on board aircraft carriers, hazards

as seen by the naval aviator, as well as hazards seen by the Army tank commanders, and Air Force tactical and strategic safety officers.

The overall security level of the meeting is Confidential, and attendance is limited to persons with suitable security clearance and a need-to-know in the areas of missile, space or gun propulsion hazards technology.

NWC employees interested in attending any of the sessions of the JANNAF Propulsion Systems Hazards meeting will have to be cleared in advance by the Chemical Propulsion Information Agency (CPIA).

This can be arranged by acting quickly to obtain a copy of the clearance form that is used from the Aerothermochemistry Division Office (Code 388), completing the form, and returning it to Code 388 so that it can then be forwarded to the CPIA in Laurel, Md.

There will be special pre-registration for NWC personnel on Friday April 16, from 3:30 to 4:30 p.m. in the lobby of Michelson Laboratory. Clearance certification must be on file with the CPIA.

Energy tip

Never operate a window or attic fan in an air conditioned area. It will force cool air outside, and waste energy.

The Rocketeer

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2. PAC No. 824508, Code 6412 — This position is in the Product Support Branch, Parachute Engineering Division, Parachute Systems Department. The incumbent performs detailed analysis of subsystems and assists in the development of new or improved systems, subsystems, equipment and/or tests relative to systems and associated hardware which relate to direct Navy Fleet support. Contact: Don Baldwin, ext. 3499, Code 6412.

Promotional opportunities

Applications (Standard Form 171) should be put in the drop box located at the Reception Desk of the Personnel Department, Bldg. 34. 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. 2069. Ads will run for one week and will close at 4:30 p.m. on the Friday following their appearance in this column, unless a later date is specified in the ad. 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 X-118; those for all wage system positions are those defined in OPM Handbook X-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 nonmerit reason.

Announcement No. 12-002, Supervisory, Operations Research Analyst, DP-1315-4, PAC 8012121, Code 122 — The position is Program Director for Anti-Air Warfare Studies in the Weapons Planning Group. Incumbent plans, directs and administers the ongoing operations research project work within his program area. Projects fall broadly within the area of air-to-air and anti-air warfare. Job Relevant Criteria: Demonstrated operations and analysis, and warfare analysis ability; mature judgment; combined with an ability to redefine complex problems in terms of specific sub-studies; must be capable of leading a comprehensive program effort and of defining the various problems, allocating personnel and financial resources and integrating results into overall program planning.

Announcement No. 24-294, Pipeliter, WG-4264-10, JD No. 204-1N, Code 2441K — (Status eligibles may apply.) Position is located in the Maintenance Utilities Division of the Public Works Department. Incumbent performs the duties of a pipeliter and steamfitter, as well as some plumbing duties. Installs pipe, fittings and fixtures to construct or maintain piping systems such as steam heating, steam power, hot water heating, hydraulic, high pressure air, chemical acid, various gases, Cardox, fire sprinkler systems, vacuum lines, nitrogen lines and oil line systems. Locates leaks or obstructions and repairs or clears them. Tests piping systems. Maintains and repairs all steam, oil, water and gas distribution lines and connected to boiler plants. Makes various experimental installations. May install wall heating boilers not requiring work of boiler makers. Job Relevant Criteria: Ability to do the work of the position without more than normal supervision; instruction, specification, blueprint, etc. measurement and layout; materials, tools and equipment; troubleshooting; technical practices. Supplemental Qualifications Statement is required along with SF-171 and may be picked up at the Personnel Bldg., Rm. 100.

Announcement No. 33-010, Secretary (Typing), GS-318-4, PD No. 8223010, Code 3355 — Incumbent provides clerical support to the Special Projects Branch, Electrochemical Division of the Fuze and Sensors Department. The incumbent's duties include: maintaining calendar; receiving and directing visitors and phone calls; reviews correspondence; receives and distributes incoming mail; maintains files; prepares and handles time cards; travel orders and itineraries; purchase orders for materials, supplies and equipments; types from rough, handwritten drafts or machine dictation. Job Relevant Criteria: Ability to perform receptionist and telephone duties; ability to receive, 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 need of the office; ability to train clerical personnel and organize workload; ability to process, classify, and coordinate travel arrangements; ability to maintain and coordinate supervisor's calendar and to arrange conferences. Supplemental Qualifications Statement required, along with 171. Supplemental available in the Personnel Bldg., Rm. 113 from Sus Cross.

Announcement No. 00-018, Administrative Officer, GS-341-9, DP 8209006, Code 032 — (Part-time). This position is located on the staff of the Deputy Technical Director/Laboratory Director, Code 01A/03. Incumbent will provide administrative support in the areas of management analysis, financial and budget analysis, personnel management, space, equipment management, security, contracts and procurement. Position has promotion potential to GS-11; however, promotion is not guaranteed. Job Relevant Criteria: Knowledge of Center administrative functions and procedures; skill in handling work contacts; ability to communicate clearly both orally and in writing; ability to coordinate and develop, plan, organize, and analyze data and establishing new specialized data files.

Announcement No. 35-048, Interdisciplinary (Electronics Engineer, Computer Scientist, Physicist, Mathematician), PAC No. 8126494, DP-855, 1599, 1316, 1550-1/2/3, Code 3511 — Position is located in the Computer and Software Systems Branch, Systems Sciences Division, Electronic Warfare Department. Incumbent will deal with the software for the HARM missile system by: analyzing software equations

and functions, including radar signal processing and autopilot aspects; reviewing contractor or NWC proposed changes and implementing changes in the missile software design and code to accomplish approved changes; coordinating and conducting software tests to validate system performance after the completion of changes. The incumbent will carry out software design, coding, testing, and documentation in a dual processor VAX facility with real time tools and capabilities. Job Relevant Criteria: Knowledge of autopilot and/or signal processing design and implementation; knowledge of assembly language programming; ability to deal effectively in a team situation; ability to communicate effectively orally and in writing. If filled at a lower level, this position has promotion potential to DP-3. Previous applicants need not reapply.

Announcement No. 35-049, Secretary, GS-318-5/6, PD No. 8135020N, Code 351 — This position is located in the Systems Sciences Division of the Electronic Warfare Department. Incumbent will provide secretarial support to the division head and associate division head and be responsible for the smooth, administrative operation of the division office. 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; 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 workload of clerical staff or processes; ability to plan and coordinate travel arrangements; ability to maintain and coordinate supervisor's calendar and to arrange conferences. Supplemental Qualifications Statement is required along with SF-171 and may be picked up at the Personnel Department, Rm. 100. Position has promotion potential to GS-6 if filled at GS-5 level. This is a readvertisement of Announcement 25 067 to include that applications will be accepted from Status Eligibles. Previous applicants need not reapply.

Announcement No. 35-071, Multidisciplinary Supervisory Position, General Engineer, Electronics Engineer, Physicist, Electronics Technician, Engineering Technician, DP-801, 855, 856, 830, 861, 802, 1310-4, PAC No. 8235532, Code 3505 — This position is that of SIDERAM Program Manager, Electronic Warfare Department. The incumbent serves as the NWC focal point on the SIDERAM Program for the Naval Air Systems Command Program Manager (PMA-242). The SIDERAM Program Office is responsible for the technical management, planning, direction, coordination and supervision of all aspects of the SIDERAM weapon system over which the Naval Weapons Center has technical and/or management cognizance. The Program Office is responsible for establishing and maintaining development and production schedules, configuration management/control, product improvements, and design, development and evolution of follow-on product im-

provement programs. Specific duties of the incumbent are to supervise the Program Office, act as the focal point between NWC, NAVAIR and the Air Force concerning pertinent development issues, and make technical decisions which may affect NAVAIR as well as the Air Force. The incumbent will interface with major system contractors for PMA-242, ensure a quality product from all contractors, personnel, manage and control SIDERAM finances, review and approve technical workload plans and assign/monitor projects to Program Office managers. Job Relevant Criteria: Experience in coordination/negotiation with other NWC elements, Navy activities, DoD agencies and contractors for the purpose of defining technical and management objectives and controlling/reporting progress; experience and training in the development and system acquisition of missile systems; experience in production and production processes; demonstrated ability to supervise technical and administrative management personnel; knowledge of air launched anti-radiation systems; willingness to travel quite extensively.

Announcement No. 3618 Secretary (Typing), GS-318-5, PD No. 823627N, Code 362 — This position is located in the Systems Engineering Division of the Engineering Department. The incumbent provides clerical and administrative support to the division head. Duties include: receive and direct visitors and phone calls; exercise control over appointment calendar and set up meetings and conferences; receive and screen incoming mail; maintain files; review, edit, and prepare official correspondence and messages; prepare travel orders and itineraries, etc. Job Relevant Criteria: Ability to perform receptionist duties; ability to maintain and coordinate supervisor's calendar and arrange conferences; ability to compose correspondence; prepare non-technical reports, and edit and review outgoing correspondence; knowledge of filing systems and files management; ability to plan and coordinate travel arrangements; ability to advise, guide and train clerical personnel and organize the workload of clerical staff. Promotion potential to GS-6, promotion not guaranteed.

Announcement No. 36-19, General Engineer, DP-801-3, Electronic Engineer, DP-853-3, Engineering Technician DT-403-2, Electronics Technician, DT-456-3, Quality Assurance Specialist DA-1916-3, (Interdisciplinary) PAC 823643/432E45 Code 01A2 — This position is located at

Announcement No. 00-011, Motion Picture Projectionist, WG-3910-5, JD 254, Code 0031 — This position is located in the Program Coordinator's Office, Public Affairs Office. Incumbent operates and maintains a wide variety of audio-visual equipment which includes 8 and 16 mm motion picture projectors, slide projectors, overhead projectors, video players, and tape recorders. Incumbent is responsible for conference room set-up and routine maintenance and repair of equipment. Job Relevant Criteria: Ability to do the work of the position without more than normal supervision; work practices and the ability to interpret instruction and to follow directions; ability to do the theoretical, precise and/or artistic work of the trade; dexterity and safety and ability to use and maintain tools and equipment. Promotion potential to WG-7, promotion not guaranteed. Supplemental Qualifications Statements required along with 171. Supplemental available in the Personnel Bldg., Rm. 108, from Pat Gault.

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**Register now
Racquetball players
get chance to test
skills in tourneys**

Plans were announced this week by the Recreational Services Department for staging a series of racquetball tournaments.

Each of the tournaments will be double elimination events, and will be limited to 16 players each.

The entry fee of \$6 per person is payable at the time of registration, which is being handled at the Center gym office. The deadline for signups is two days prior to the start of each tournament.

Prizes will include trophies and gift certificates to the top four contestants in each tournament.

The first racquetball tourney is one for novices. It will be held on Friday, Saturday, and Sunday, April 16 through 18.

It will be followed by a similar event for players of intermediate level skill that is scheduled on April 30, May 1 and 2, and the third tournament, for "open" division contestants, is slated May 14 through 16.

All three of the racquetball tournaments are open to both men and women players.

**Swimming classes
for adults begin on
Mon. at gym pool**

Registration is now being taken at the Center gym office for two separate swimming classes for adults that will begin on Monday, April 5.

Both classes will be taught by Peggy Burke, and there is a registration fee of \$20 per student.

The first class is for beginning swimmers. It will be held on Mondays and Wednesdays from 7 to 8 p.m. through May 5.

The second class is one that will focus on improving various swimming strokes, as well as on endurance swimming. It will be held on Mondays and Wednesdays from 8 to 9 p.m. through May 5.

The registration fee of \$20 is payable at the gymnasium office on or before April 5.

**Sports of All Sorts
gradually increasing
Premier League lead**

The Sports of All Sorts team lengthened its lead over the second place Hideaway team by a couple of points in last Monday night's Premier (scratch) League bowling at Hall Memorial Lanes, despite the Hideaway team's high team series of 2,828.

High team game honors were nabbed by Cocky Bull, with a 1,075.

This week saw only one triple-200 series rolled. Lynn Potter scored 204, 209, and 215 for a smashing 628.

Other bowlers who found the groove and rolled 600-plus series were Ken Dalpiaz (634), Chuck Cutsinger (615), Aaron Kane (614), Lou Renner (613), Chuck Rouland (607), Ron Williams (603), and Thad Brightwell (601).

Those scoring more than a sizzling 220 game were Rouland (268), Dalpiaz (248), Renner (239), Chris Peterson and Kane (235), Jeff Mattick (225), Bob Wallace (223), Bob Branson (222), and Bill Osborne (221).

Team standings are:

Team	Won	Lost
Sports of All Sorts	357.5	202.5
Hideaway	312.0	248.0
Raytheon	285.0	275.0
Elks Lodge	279.0	281.0
Cocky Bull	273.0	287.0
Turner's Real Estate	269.0	291.0
Buggy Bath	263.5	296.5
Viro Systems	259.0	301.0
ERI Hustlers	257.5	302.5
Partlow Construction	244.5	315.5



READY, AIM... — An official (far left) scores the shooting of FTMC Nelson Foucher (far right) during last week's match as AMHC Bob Cummins reloads

**Four-man team favored to beat
full-sized softball squad Sunday**

Softball fans in the local area will have the chance to see one of the living legends of this sport in action during an exhibition game played against a team of NWC firefighters on Sunday, starting at 2 p.m., at Schoeffel Field.

The Joker and 3 Aces, a four-man team, will tangle with a regulation-size squad of firefighters coached by Mike Tosti.

In spite of the numerical advantage in players they will enjoy, the firefighters have few, if any, illusions about upsetting the Joker (Danny Millsap), who has been doing for 52 years what the Dodgers' youthful star, Fernando Valenzuela, attracted so much attention for last season and now currently in Major League baseball.

Millsap, whose son, Mike, is always behind the plate as catcher, has pitched in celebrity baseball games for charity and drug awareness programs for more than 35 years.

Here on Sunday, proceeds from the donations of \$2.50 per person for admission to the game will be turned over the Desert Flames, women's auxiliary of the NWC firefighters, for use in meeting various

Boys and girls involved

Lively 19 games played in youth soccer Saturday

A pair of 4-0 wins by the Hotspurs and Villains over the Wolves and Gunners, respectively, highlighted Division 7 competition (for 7th through 9th grade players) in last Saturday's Youth Soccer League play.

Two goals by Seamus Freyne and 1 each by Brian Collie and Don Webster sparked the win by the Hotspurs. The victors tallied three times in the second half, including a header into the opposing team's net by Webster.

Scoring was spread around between four players in the Villains' victory over the Gunners. Those who got in on the scoring act for the Villains were Gary Guth, Bill Leden, Ryan Miller and Marty Wyatt.

The Sounders and Kicks turned on the scoring power in Div. 5 games played at Davidove Field as they trampled the Roughnecks and Diplomats by scores of 7-3 and 4-1, respectively.

Results of other Div. 5 contests were Tornado 1, Hurricane 0; Surf 2, Rogues 0; and Whitecaps 2, Sting 0.

Brian Lindsey set some sort of early season record by scoring all 7 goals (2 coming with assists from Keith Thomas, and 1 each on assists by Shannon and Tony Haaland) in the Sounders' 7-3 win over the Roughnecks. In this same game, in which offense overshadowed defense, Jeff Duffendach had 2 goals and Chris Utley 1 for the Roughnecks.

The 4-goal scoring effort by the Kicks in their game with the Diplomats was led by

service and charitable needs.

Two players who take up short outfield positions make up the balance of the team for the Joker and 3 Aces. These players cover all three bases and the shortstop position, but customarily don't get much of a workout — thanks principally to the fascinating manner in which the Joker handles his pitching chores.

Millsap isn't beyond issuing an occasional walk to a batter just to liven the game up a bit with a double play. Also for a change of pace, he's been known to pitch an inning or two while resting on his knees, and, at times, his son, Mike, catches in a reclining position behind the plate.

The NWC firefighters, and the positions they will play in this exhibition tilt against the Joker and 3 Aces are:

Jerry Wilson, Bud Malone and Jim Jackson, pitchers; Todd Loewen, Jim Ayers, and Mike Haynes, 1st, 2nd, and 3rd base, respectively; Ray Rightmer and Roger Moorehead, short stop; and outfielders Ray Ames, Scott Baker, Bob Burk, Bruce Cargal, Frank Salas, Doug Laffoon, and Doug Hal.

Paul Lelis, who had 2 scores to his credit, while Matt Mechtenberg and Jay Okamoto tallied 1 goal each. The Kicks averted a shutout by getting in a shot by Tom Caves.

A good pass from Brian Fitzgerald to Clint Cafee, who got the ball into the net, was the only score in the Tornado team's 1-0 win over Hurricane. In another Div. 5 shutout match, Erick Blowers and Brian McCrary hit 1 goal each to lead the Surf to a 2-0 victory over the Rogues.

Two goals by David Shumway and one by Stephen Savage, all coming on assists from Armondo Valdivia, who also tallied on a free kick, accounted for the scoring in the Drillers' 4-0 victory over Thunder in a Div. 4 match. Scores of other games in this division for 4th grade players were Timbers 2, Atoms 0, and Strikers 1, Boomers 1.

Good defensive play by goalie Peter Martinez helped to preserve a 2-0 win by the Timbers over the Atoms. Both goals for the Timbers were tallied by Will Freeman, with assists from Pat Adams and Peter Martinez.

In the 1-1 deadlock between the Strikers and Boomers, the goal scorers were Aaron Dilleshaw for the Strikers and Jeremy Osburn, for the Boomers.

Two teams ran up the score on their opponents in Div. 3 youth soccer matches. The Blizzard's blasted the Aztecs 7-0 and Sockers booted the Cosmos 4-0.

Four of the 7 goals by the Blizzard were tallied by Derek Lindsey — 1 on a steal, 1 on a rebound, and 2 by assists from other

**Rifle team scores
high in statewide
service rifle meet**

The Naval Weapons Center rifle team competed in a state-wide service rifle championship tourney last weekend at the Fresno Rifle and Pistol Club, and came home with an armload of trophies.

AZI Craig Wilson took first place in the state in the marksman class. He also garnered a first place in the 300-yard rapid fire event, and a second place in the 600-yard slow fire competition.

FTMC Nelson Foucher took a second place as overall marksman, a first in the 600-yard slow fire, a first in the slow-fire aggregate, and a second place in the 200-yard offhand event.

AMHC Bob Cummins picked up a first place in the 200-yard rapid fire competition and a second in aggregate rapid fire.

All three of these men competed in the marksman class.

ABHC Bill Moss took a second place in the 200-yard rapid fire competition in the sharpshooter class.

Civilian Hal Schmeer won first place in the 200-yard rapid fire marksman class for civilians.

Of the 90 contenders in the championships, eight were local military personnel, and two were civilians from China Lake.

**Salt-water anglers
can wet lines off
central coast area**

Fishermen who enjoy a different kind of fishing than that found around the Lake Isabella/Bishop/Crowley areas may find a trip to the central California coast in order.

The party boats are now going out daily from Avila, Morro Bay and San Simeon. Trips take, usually, from 7 a.m. until 3 p.m., and saltwater tackle can be rented by those who don't own their own.

The fishermen going out from San Simeon last week averaged 15 fish apiece, and those from Morro Bay, 11 each.

Most of the fish caught were assorted bass, red snapper, and rock cod. Biggest fish taken was a 34-pound lingcod (caught by a 14-year-old fisherman). Some delighted fishermen also caught salmon. (Salmon runs usually go further out to sea.)

players. In addition, Joe Wilson scored twice, and Scott Wilson got one goal by capitalizing on a loose ball in the goal box.

The Sockers' 4-0 shutout over the Cosmos was led by 3 goals off the toe of Shawn Hamilton, while Mike Mahoney booted a shot into the net for good measure.

The only other Div. 3 contest played last week was won 1-0 by the Earthquakes over the Lancers. The lone tally was a goal by Lance Kilpatrick. The big difference in the game was the goal-saving efforts by Earthquake goalies Lance Kilpatrick and Steve Mills.

Three low-scoring games marked action in Div. 2. Victorious by scores of 2-0 and 1-0, respectively, were the Fury and Express over the Sunshine and Rowdies. The Apollos and Chiefs battled to a 0-0 tie.

Robbie Stark scored 1 goal and was credited with an assist on a goal by Derrick Brown in the 2-0 win by Fury over Sunshine.

A fourth quarter score by Jared Christensen, after continuous pressure by Express over the Rowdies, defense, was the only goal in the 1-0 win by Express over the Rowdies.

Six goals by Jarod Gonzalez enabled his team (the Cobras) to cut down the Eagles 6-0 in their Div. 1 match. Scores of other Div. 1 tilts were Owls 2, Coyotes 1, and Roadrunners 1, Hawks 0.

It took a last second goal by Mike Matson (his second of the day) to give the Owls a 2-1 win over the Coyotes. The one goal for the Coyotes was tallied by Scott Ross.

Jennifer Bowling racked up the only goal of the game in the Roadrunners' victory over the Hawks.

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. Lahr. 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 — It is not unusual to find emergency exits barred by a mechanism labeled "security." This mechanism totally defeats the function of the panic bar. This condition existed during the all-hands low-white-blood-cell meeting. Of eight possible emergency exits in the theater, only two were usable.

This security innovation could result in a tragic loss of human life. Occurrences of the condition have been reported to Safety on several occasions, but they continue to exist.

ANSWER
When notified by an anonymous phone caller (perhaps you?), the Safety Office and the Fire Division immediately took action. They responded to the theater and had the panic hardware restrictive devices removed. However, they did not receive the anonymous phone call until after the first all-hands low-white-blood-cell-count meeting was completed. We dropped the ball.

With the exception of security bars, which are authorized on exit doors of unoccupied buildings, the Center's fire regulations (NAVWPNCENINST 11320.4) prohibit the use of restrictive hardware such as hasps, throw bolts and crossbars installed on any exit door. At no time should an exit door be secured while a building is occupied.

In the future, if you or anyone reading this observes exit doors obstructed, blocked, secured with padlocks, chains or security bars, notify the Fire Division immediately. By the way, you are to be commended for noticing the exit doors were secured. Too many people do not pay any attention to these types of problems, which could result in the tragic loss of human life in the event of a fire. However, next time don't wait to report it.

QUESTION
Military — Captain, at your meeting with the people at the BEQ, you asked that we turn in offenders. A lot of us are afraid of people finding out about it. Why don't you make TIP line so we can call anonymously?

ANSWER
This idea has some merit. Crime Hot Lines have been effective in the civilian sector and might prove effective for us here at NWC. Our China Lake Police Division and Master at Arms are investigating the possibility of installing such a line for their joint action.

I guess what disturbs me is that the "good citizens" of the Navy like yourself have to feel threatened or intimidated to the point that they cannot openly take the action that they know in their heart they should.

If anyone has knowledge of an offense under the UCMJ or against the security of the Nation, or against someone's person or property, that person has a duty and a moral obligation to report that offense and should be able to without being branded a narc or squealer. If you have knowledge of an infraction, speak to your supervisor, Chief Petty Officer, or Branch Officer. They will know how to proceed to ensure your safety (and anonymity, if possible).

**Milestone achieved this week
in Mobile HAWK demo program**

A major milestone was achieved this week on the Mobile HAWK Demonstration Program, with the meeting of the Mobile HAWK Joint Working Group and the conduct of an overall systems program review.

Mobile HAWK, a potential product improvement to the current Improved HAWK missile system, depends on a multifunction radar (MFR) that is interfaced with an unmodified IHAWK missile and launcher.

The IHAWK (Homing All the Way Killer) surface-to-air missile system uses a single-stage solid-fuel missile with a high explosive warhead and continuous-wave semiactive guidance provided by dedicated continuous wave illuminator radar. Search and acquisition functions are provided by separate radars.

HAWK was first fielded in 1958, with IHAWK becoming operational in 1971. IHAWK is currently operational with both the Marine Corps and the Army, but requires intensive manpower support to employ and operate the system in the field. The proposed concept will increase system mobility, effectiveness, reduce manpower requirements, and lower overall system operational cost.

The Mobile HAWK concept visualizes the use of a single multifunction fire-control radar to perform the tasks necessary to complete an air defense mission. For the feasibility demonstration purposes, the representative MFR being utilized is the Hughes Aircraft Co. FLEXAR.

Warren Clendenin (Code 39202) is the program manager for NWC efforts, with Jerry Shultz as demonstration technical manager. NWC was funded by the Marine Corps Aviation Block to conduct a

technology demonstration of a single electronically-scanned array radar system to replace the three radar systems currently associated with the IHAWK system. The MRF will also solve the fire control problem.

Members of the Mobile HAWK Joint Working Group that met Wednesday included representatives from NWC, the Marine Corps, Army Missile Command at Redstone Arsenal, Alabama, and the Army Air Defense School at Fort Bliss, Texas.

Purpose of the Mobile HAWK Joint Working Group is to present and discuss information on the demonstration program to keep everyone updated, to transfer ideas and technology in the field of missile defense, and to discuss areas of similar concern and interest in their air defense field.

Upon completion of the MHJWG meeting, personnel from NWC, Naval Sea Systems Command, the Marine Corps, Hughes Aircraft Co., and the Army conducted a system program review.



SPECIAL HONOR — Their efforts that resulted in approval of a long range feral burro management plan for the Center were the basis for presentation by Capt. Lahr (at left) of the Commander's Award for Excellence in Mission Support to (l-r.) Dr. Thomas J. McGill, Cdr. Perry Patterson, and Thomas M. Dobson.

**Three Centerites receive award
for long-range burro mgt. plan**

The key roles played by three Naval Weapons Center personnel who were responsible for the review, coordination and other efforts that resulted in ultimate approval of a long-range feral burro management plan for the Center were recognized recently by the presentation to them of the Commander's Award for Excellence in Mission Support.

The latest recipients of this award, which consists of a triangular-shaped paperweight and a letter of commendation from the NWC Commander were Cdr. Perry S. Patterson, Staff Judge Advocate; and two employees in the Public Works Department.

The latter are Thomas M. Dodson, an environmental protection specialist who heads the Environmental Branch of Code 26, and Dr. Thomas J. McGill, a natural resources specialist.

All three men were part of a team that has been involved since December 1980 in a program which began with direct reduction of burros to eliminate an emergency condition that was a threat to the continued safety of NWC personnel driving vehicles on some range area roads and to aircraft coming in for landings.

This program progressed through the various stages of public hearings and court proceedings and was culminated by a recently negotiated agreement between NWC and the Bureau of Land Management (BLM).

Under the terms of this agreement, all feral burros roaming on Center lands are to be removed by BLM employees. The cost to NWC for this removal is \$50 per burro, which is the approximate cost of the direct reduction method of temporarily alleviating the problem that was used at the outset of this effort.

Under a separate agreement between NWC and the Fund for Animals, an organization representing itself and six other animal protection groups, an adoption

program for all burros that are removed was finalized.

"These agreements represent significant milestones in that the existing animosities, with the potential legal actions by the animal protection groups, were eliminated and the Center's long-term goal of complete removal within a reasonable time period will be achieved," it was noted in the letters of commendation that each of the three men received.

"This problem was solved with less animosity than I would ever have believed possible," Capt. Lahr stated as he presented the Commander's Award to Cdr. Patterson, Dodson and McGill during a meeting of the Center's department heads and other key personnel.

Cdr. Patterson was cited for his role as chief negotiator. Following final approval and publication of the long-term burro management plan, it was the job of the NWC Staff Judge Advocate to negotiate appropriate agreements for live capture and removal of the burros.

Dodson was commended for the information that he gathered and documented which indicated that early action in resolving the burro management problem was necessary in order to prevent the feral burros from inflicting irreparable damage on the delicate desert environment.

McGill was complimented for his guidance and assistance during the selection of a consulting firm that was hired to review all options and prepare the long-term plan.

"From initial concept through the public hearings to finalization and approval of this long-range management plan, your knowledge of the various laws and other environmental considerations was a key asset in obtaining a quality and timely plan," it was stated in the letter of commendation presented to McGill.

Under a separate agreement between NWC and the Fund for Animals, an organization representing itself and six other animal protection groups, an adoption

program for all burros that are removed was finalized.



FINAL CHECK — Jerry Schultz, NWC Demonstration Technical Manager for the Mobile HAWK program, takes a last look at one of the missiles before the overall system review conducted this week. — Photo by Don Cornelius

Versatile power source results from inventiveness of Centerite

Advanced missile fuzes have long needed a microwave radio frequency source that produces low to medium power, but is light in weight, reliable, and reasonably priced. Thanks to the work that has been done by A. R. (Ron) Skatvold in the Radio Frequency Branch of the Fuze and Sensors Department, such a source may shortly become available.

Working with Independent Exploratory Development (IED) funding in 1975 and 1976, Skatvold designed such a power source and proved that it could work. The Navy has now patented the device.

The Varian Company used Skatvold's approach in doing some work for the Army's Harry Diamond Laboratories, and the Motorola Company in Phoenix, Ariz., and Microwave Associates in Burlington, Mass., also are examining the technology that he developed.

The technology breakthrough came by adding together the power of two or more low-power IMPATT diodes mounted on alumina substrate microstrip circuits — a form of microwave integrated circuitry. (An IMPATT diode converts direct current to microwave energy.)

The resulting RF power source is small in size (it can be phototched), light in weight, and low in cost. It is more reliable because

Air Force personnel try to plan fishing tourney

Special Services personnel at George Air Force Base are endeavoring to organize a base fishing tournament to be held sometime in the near future at Lake Isabella.

Local military personnel or DoD civilian employees interested in competing in this event, or obtaining information on the steps involved in organizing a local Bass Anglers' Association, are asked to contact either TSgt. Pete Bolton or TSgt. Lynn Colburn at George AFB by calling Autovon 353-3191 or commercial (714) 269-3191.

Hazardous waste management, disposal program is outstanding

In a time characterized by problems with hazardous materials and hazardous wastes, the Naval Weapons Center's Hazardous Materials/Waste Management Program stands out for its efficiency and safety.

The new hazardous waste storage facility in Area R has been licensed by the State of California, indicating that both its general operating procedures and safety are acceptable, and a new instruction (NAVWPNCENINST 6240.6) on the hazardous materials and waste management program is now being printed.

This program meets the requirements of all laws, regulations and responsibilities outlined by the Navy and the State of California to which the Environmental Protection Agency granted authority over hazardous waste management within its boundaries.

Hazardous material means any substance or mixture of substances that is toxic, corrosive, flammable, an irritant, a strong sensitizer, or which generates pressures through decomposition, heat or other means, if such a substance or mixture of substances may cause substantial injury, serious illness, or harm to humans, domestic livestock or wildlife. Hazardous waste is any waste material or mixture of wastes that has the same adverse effects as hazardous material.

The new NWC instruction points out that all users of hazardous materials and generators of hazardous wastes have responsibility for keeping an inventory of their materials, storing them properly, and ensuring that they will be properly disposed of when that becomes an appropriate action.

Other responsibilities defined in the instruction include:

The Environmental Branch of the Public Works Department, Code 2632, has been designated the Center's hazardous waste

and low-power IMPATT diodes operate at lower junction temperatures than high-power ones.

Heat generated because of inefficient energy conversion is dispersed over a larger area when two or more diodes are used, which also makes the system more reliable. And, finally, if one diode fails when two or more are used, the whole system does not necessarily fail as it would if only one high-power diode was used.

The exact power-output that a system needs can be attained by combining, within reason, whatever number of low-power IMPATT diodes that will produce that power level. A source that can be electronically switched from low transmit to higher transmit levels adds to the versatility of the system.

Skatvold's work centers on a "resonant element" transformer that transforms low IMPATT diode impedance to a standard microwave integrated circuit 50-Ohm characteristic impedance. Formerly, quarter wavelength impedance matching transformers was one of several methods that could be used to do this matching, but as microwave solid-state devices have gone to lower and lower impedances, the microstrip method didn't work well because conventional microstrip techniques couldn't match the low impedances needed.

The new transformer lets the designer independently provide transformation to resistive and reactive impedance loads. It can be used for designing IMPATT oscillators and amplifiers, Gunn oscillators, and gallium arsenide FET oscillators and amplifiers as well. In fact, the transformer has been used by Skatvold in developing gallium arsenide FET amplifier design processes in a fiscal year 1978 IED project.

"What's exciting about the work," Skatvold says, "is that by using IED funding, NWC has come up with a technology that already is finding industrial applications while we're still refining the work."

and hazardous material management program focal point.

The Supply Department, Code 25, is responsible for compliance with all acquisition procedures, providing inventory data, maintaining adequate container supplies, and proper storage and transport of hazardous materials for users.

The Safety and Security Department, Code 24, is responsible for all safety and health aspects of the program. The In-



CHECKING MATERIALS — Bob Moore, a pest control inspector, ensures that a drum at the hazardous waste storage facility is adequate for holding waste until it is ready to be shipped to a disposal site. — Photo by Don Cornelius



CAREFUL WORK — Ron Skatvold examines two IMPATT diodes mounted in a circuit.

Reservations open for annual lunch to honor secretaries

Reservations are now being taken for the annual Secretaries' Day luncheon sponsored by the Federal Women's Program on Wednesday, April 21, at 11:30 a.m. at the Enlisted Mess.

Menu choices for the lunch are either a chef's salad or chicken fried steak; both cost \$4. Reservations must be made by close of the day on Friday, April 16, by telephoning Eloise Burklund at NWC ext. 2634.

Capt. Lahr will speak and will also present the awards garnered by winners of the Secretary of the Year competition.

The luncheon is a highlight of a day-long program that will include the showing of two movies and a seminar. All Centerites are welcome to attend any part of the day's activities.

Police reports . . .

A Saratoga Street resident reported that sometime between Jan. 15 and March 29 his lawnmower was removed from his locked garage. The mower is valued at \$150.

STUDENTS PICKED UP

On Monday morning seven white male students 13 and 14 years old were picked up at Murray Junior High School and charged with numerous thefts. Some of the juveniles had stolen property in their possession at the time that they were picked up. Since they are juveniles, their cases will be handled through the juvenile officer and the Kern County Probation Department.

EMPLOYEE ARRESTED

A Civil Service employee was arrested at his job on a warrant issued by the East Kern Municipal Court for violation of the California Fish and Game Code. He was booked at the jail in Ridgecrest.

WINDOW BROKEN

A large, plate glass window was broken sometime last Saturday night at the Navy Exchange ice cream parlor in Bennington Plaza.

Police believe a club or a piece of pipe may have been used to cause that damage, which will cost an estimated \$200 for repairs.

MONEY VANISHES

Theft of \$5 in cash from Room 313-B in BEQ 3 was reported Sunday evening to China Lake police by the occupant of this room.

The money disappeared from a jar left on top of a dresser. There was no sign of forced entry into the room, leading police to the conclusion that someone had used a key to open the door.



Agencies work together to deal with cases of family violence

Child abuse, spouse abuse and other forms of family violence cut through all levels of society rather than being limited to any one socioeconomic group, according to CWO3 Jim Jewell and Cecilia Trieu.

CWO3 Jewell heads the Navy's Family Advocacy Program locally, and Mrs. Trieu is a social worker for Kern County's Child Protective Services agency.

Both belong to the High Desert Child Abuse Prevention Council formed last year by social workers, doctors, law enforcement officers, counselors, school personnel and others living in eastern Kern County and San Bernardino County. Included in the group are members from Edwards Air Force Base, Boron, Mojave and Trona, as well as Ridgecrest and China Lake.

The problems of child abuse and spouse abuse have not necessarily been increasing, according to Mrs. Trieu, but within the past two years a public awareness has been growing that help (other than arresting the abuser) is available in the case of spouse abuse, and that children will not automatically be removed from a home in which child abuse has occurred. The aim of agencies involved is, whenever possible, to salvage and improve family relationships.

Increased awareness of the problem and the courage to speak up are also stressed by CWO3 Jewell. In his work as a physician's

assistant at the NRCM branch clinic, he's taught classes to clinic personnel to make them more aware both of signs of abuse and alternatives available to all persons involved with family violence.

While police intervention is sometimes needed in cases of spouse abuse, both Mrs. Trieu and CWO3 Jewell stress that counseling is essential. Anyone who wishes a counseling referral or who wants to talk to someone anonymously can telephone either of them. His number is NWC ext. 2911, and hers is 375-1306. At any time it is also possible to talk on the phone with a counselor from Desert Counseling Clinic by phoning the clinic at 375-9781; such a call can also be anonymous.

The same telephone numbers apply as well in cases of child abuse. After hours collect calls can also be made to Bakersfield at 805-322-6731.

Most of the cases of child abuse result from aggressive and inappropriate punishment when such punishment is done when parents are angry. Parents sometimes forget that there are other ways to discipline a child without using physical punishment. The majority of parents involved were themselves abused children.

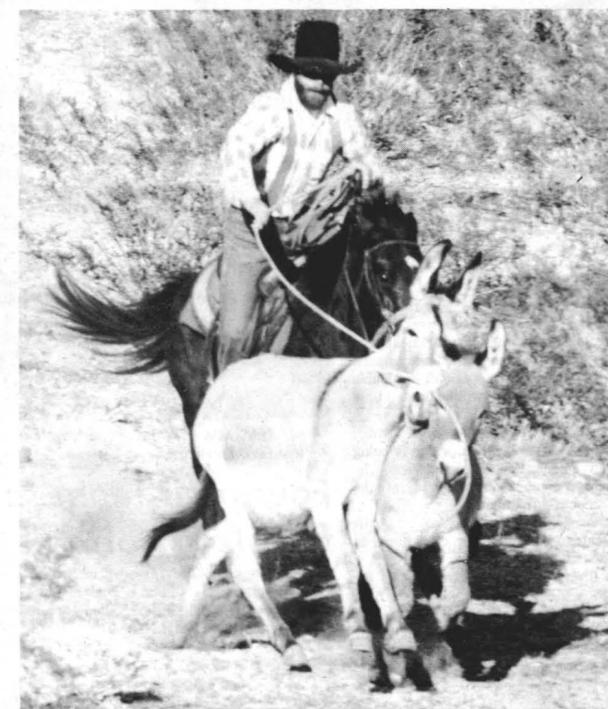
"Some of the cases of family violence I see locally result from the stresses of isolation, low incomes, minimal personal resources, lack of extended family in the area, and families that are separated geographically," CWO3 Jewell notes.

He says that he uses a wide range of resources for referrals for help, and both he and Mrs. Trieu emphasize that all the local agencies work very closely together to provide whatever help is needed.

In cases of spouse abuse, generally the couple is separated for a day or so to permit tempers to cool and for counseling to begin. ("We try not to send them off to fight again," says CWO3 Jewell). In the case of child abuse, however, the child is usually not removed from the home unless its life is endangered. The emphasis is to try to keep parents and children together.

Statistically, 70 percent are under the age of 3. Since these children are not able to speak up for themselves, reports often come in from neighbors or friends (and can be made anonymously), as well as from doctors, nurses, teachers, and child care professionals who are required by law to report any suspected cases of child abuse.

In the high desert area last year 250 referrals were made for child abuse. Of these, 107 involved physical abuse, usually overpunishment; 101 were for general neglect such as a filthy house or lack of adequate care or feeding; 33 involved sexual abuse of some sort; and in nine cases, investigation showed that they were nonabuse or neglect related.



TWO FOR ONE? — One of the wranglers involved in the burro roundup looks like he may get a bit more than he bargained for in his lariat. Despite the adverse weather, the roundup this month has netted 643 burros instead of the anticipated 500. The only sad note is that LaVern Young, the BLM's most experienced local wrangler, is out of commission for a probable two months with a broken leg that resulted when his horse's foot went into a hole and the horse fell on him. Young was airlifted out from the Airport Lake area by the BLM helicopter involved in the roundup. In an accident several weeks ago, one of the wranglers employed by the Fund for Animals had also suffered a broken leg as a result of his horse's hoof hitting slick blacktop and spilling the horse and rider. — Photo by Don Cornelius

Life expectancy of heroin user shortened by dangerous habit

"H," "smack," "skag," "junk" — these are only a few of the street names for heroin, a narcotic whose abuse soared in the two decades after 1960. While abuse of heroin diminished for a few years after the mid-1970s, it seems once more to be on the rise.

The narcotic was originally formulated in 1884 by the Bayer Co. in a search for a painkiller that would not be as addicting as morphine. Commercially manufactured in 1898, it was heavily used — legitimately — for several years before doctors discovered that even two weeks of use created drug dependence. By 1914, heroin was listed as a controlled narcotic.

In its pure form, heroin is a white powder. Street heroin can be any color from white to dark brown, and any strength from 10 percent down to one percent. This variance in purity and strength can prove fatal — substances mixed with heroin have run a wide range, and any heroin that has a

Ice cream parlor open to everyone with sweet tooth

The new Navy Exchange ice cream parlor (located next to the package store on Richmond Road in the Bennington Plaza complex) is proving to be a major success.

Some of the many patrons have suggested a change in hours; this suggestion has resulted in the new store being open to dish up the goodies from 2 to 7 p.m. Mondays through Fridays, and from 11 a.m. until 7 p.m. on Saturdays and Sundays.

The store will be offering specials with special appeal — for instance, a "Sundae on Sunday," and the "TGIF" double dipper each Friday.

Flavor of the month for April is peppermint candy. Everyone on board is invited to come in and take a lick because no ID is needed to make a purchase.

concentration of 20 percent or more is apt to be fatal.

Most heroin users either sniff it, "skin pop" (inject just under the skin), or mainline it directly into a vein. Mainlining brings the biggest euphoric "rush," but it also dramatically lowers the life expectancy of the addict.

The kit used by an addict usually involves a spoon to hold the powder, a match to heat the spoon to melt the powder, a constricting band of some sort to make veins stand out and a syringe. Heroin itself is often packaged in glassine envelopes by the pushers.

While abusers claim that heroin can suppress tension, anxiety, hunger (and, incidentally, sex drive), it can also cause depression and panic. Tolerance develops rapidly, meaning that increasingly large doses are needed to get the same effect.

The dangers from heroin include (besides death), infection from unsterilized needles, hepatitis, collapsing veins, and skin ulcers. Withdrawal symptoms begin occurring within four to six hours after the last injection, and by 12 to 16 hours are reaching a peak. These symptoms include shaking, sweating, vomiting, running nose and eyes, muscle aches, abdominal pains, and diarrhea.

Methodone can be used by medical clinics to get heroin users off heroin; the methodone can then gradually be withdrawn. Methodone itself can also be addicting; it is less popular as a narcotic, however, because it does not provide the "rush" or "kick" that drug abusers expect from heroin. Methodone also breaks up the ritual of "taking a fix" because it can be taken orally.

Heroin users can sometimes be spotted by the scars or "tracks" on their arms, pupils being constricted and fixed, and, behaviorally, a loss of appetite except for sweets and general lethargy.

Happenings around NWC

Moxon Electronics, a manufacturer's representative and stocking distributor, will present an outstanding show of specialized equipment on Wednesday from 10 a.m. until 3:30 p.m. in the Community Center.

On display will be fiber optics modems, multiplexors, color and monochrome graphic display terminals, voice recognition and response equipment, digitized voice response equipment and modems. Also shown will be microwave synthesizers, counters, time code generators and readers, frequency response analyzers, pulse generators and electronic test instrumentation.

Five technical representatives will be on hand to explain and answer questions about the equipment shown.

The equipment is manufactured by Micom Systems, Inc.; Canoga Data Systems; Systron; Donner; Marconi; and Interstate Electronics Corp.

CONFERENCE SET

The third annual Mojave Desert Quality Conference sponsored by the Sierra Sands Section of the American Society for Quality Control will be held on Saturday, April 17, at the Enlisted Mess.

Keynote speaker for the all-day conference will be B. W. Hays, NWC Laboratory Director. More than a dozen technical papers will also be presented.

A minimal registration fee yet to be announced will include the cost of lunch. Anyone in the community interested in technical growth is encouraged to attend.

Those wishing further information may telephone either Mort Kurotori at NWC ext. 3395 or Tony Miller at 446-2589.

HARMONY PLANNED

A note of harmony will be brought to the Ridgecrest City Council meeting next

Wednesday when the Sierra Sands Chorus of the Indian Wells Chapter of the Society for the Preservation and Encouragement of Barbershop Quartet Singing in America, Inc. will sing for the council.

The program celebrates the 44th anniversary of the organization, which has raised over \$4 million for a center for correcting speech defects in children.

The local group meets each Monday night from 7:30 to 10 p.m. at the Grace Lutheran Church in Ridgecrest. Any men who would like to join are welcome to attend a meeting and blend their voices with the group. Knowing how to read music is not a prerequisite for membership.

Anyone who would like further information about the SPEBSQSA may telephone Bob Blevens at 375-7178.

SKATING RINK OPEN

Fun-filled activities have been scheduled at the Youth Center/Skating Rink during the spring break from April 5 to April 11, when the following special hours of operation will be in effect: Monday from 1:00 to 5:30 p.m. — skating (6-17 years old); Tuesday from 6:00 to 8:30 p.m. — skating (family night); Thursday from 1:00 to 5:30 p.m. — skating (6-17 years old), and 6:30 to 8:30 p.m. — skating (adults only); Friday from 1:00 to 5:30 p.m. — skating (6-17 years old); Saturday from 1:00 to 5:30 p.m. — skating (6-17 years old); Sunday, closed for Easter.

On Wednesday, the regular activities of the Youth Center/Skating Rink will be suspended because of the Easter parties scheduled for that day. Youngsters from 6 to 10 years old are invited to attend the afternoon party, and those 11 years and older are invited to join in the fun that evening. Special activities planned for these parties include skating, organized games, crafts, treats and prizes.