

Christmas party for all hands at NWC scheduled Dec. 17

The Christmas season is rapidly approaching and preparations are well underway for the NWC All Hands Christmas Party on Saturday night, Dec. 17, at the Community Center. This event is open to all NWC civilian employees, and active duty and retired military personnel.

This joyous occasion, the successor to the annual party sponsored by the former Naval Air Facility, promises to provide ample Yuletide merriment and do more than justice to the festive tradition established by NAF.

Rear Admiral William L. Harris, NWC Commander, was the first to purchase his tickets. He is looking forward to extending personal Christmas greetings to all Center personnel and is encouraging maximum attendance.

The Marine Corps Recruit Depot stage band from San Diego will provide music for dinner and dancing. The NWC Commander stated that this is one of the finest stage bands available anywhere. The music alone is worth the price of admission.

Additional entertainment will be provided by "Mr. Magic and Co.," and door prizes will be awarded. Make plans now to attend and enjoy this gala event.

Tickets, including dinner, are \$5 per person for NWC active duty military personnel, and \$7 per person for civilians. Tickets may be purchased at the Weather Office in Hanger III, Military Personnel Office, the Chaplain's Office in Hanger II, and at the Community Center.

BHS vocal music

groups to present

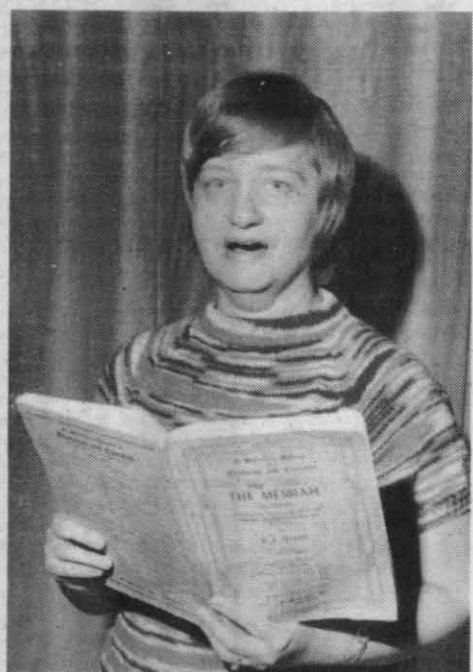
Christmas program

A vocal concert of Christmas music under the direction of Russell Parker will be presented by the music department of Burroughs High School next Thursday, Dec. 8, at 7:30 p.m. in the high school lecture center.

A wide variety of holiday music from sacred to secular will be presented, ranging from selections such as "All Come Sing Alleluia" to compositions by the infamous P.D.Q. Bach of Peter Shickle fame.

Performing will be the concert choir, the madrigal singers, the mixed chorus, the girls' triple trio, a duet, and numerous soloists.

A donation of \$1.50 per person is asked. Tickets may be purchased from any Burroughs High music student and will also be available at the door prior to the concert.



FINAL REHEARSAL — Soprano soloist Marius Melsted rehearses for the Dec. 10 performance of Handel's "The Messiah" to be presented by the Cerro Coso Desert Community Orchestra and the Cerro Coso College Choir. The performance will be in the Center theater at 8 p.m. General admission will \$2, with student, military, and senior citizen tickets costing \$1.



ALL HANDS PARTY PLANNED — The festively-decorated Community Center will be the setting on the evening of Saturday, Dec. 17, for an all hands Christmas party that is open to NWC military and civilian personnel. Rear Admiral William L. Harris, NWC Commander, is shown purchasing his tickets for this gala affair from PR Nannette Outhier, secretary to Chaplain Rodney Wallace and a member of the committee in charge of the party. Looking on at left is another of the committee members, LCdr. Henry B. Myers, an operations analyst in the technical Director's Technology Exploitation Group. —Photo by Ron Allen

'Adventures of Tom Sawyer' will open 5-performance run tonight

The Burroughs Children's Theatre group will present Wilber Braun's stage adaptation of Mark Twain's "The Adventures of Tom Sawyer" tonight and tomorrow, as well as on Friday and Saturday, Dec. 9 and 10, at the high school lecture center.

Tonight's performance will begin at 7:30, with tomorrow's scheduled to begin at 2:15 in the afternoon. On Friday, Dec. 9, there will be another evening program at 7:30, and two performances are planned for Saturday, Dec. 10, at 2:15 and 7:30 p.m.

Admission prices are 50 cents for children under 12 years of age, 75 cents for those 13 years old through high school, and \$1.25 for everyone else. Tickets will be available at the lecture center box office prior to each performance, and may also be purchased from cast members.

Cast members include David "Crash" Craddock as Tom Sawyer, Stan Caine as Huck Finn, and Rich Evert as Sid Sawyer, Tom's half brother. Marsha Strayer will recreate the role of Aunt Polly, while Cheri soloists.

A donation of \$1.50 per person is asked. Tickets may be purchased from any Burroughs High music student and will also be available at the door prior to the concert.

Science fiction writer to speak at college

Harlan Ellison, author of 30 books and more than 900 magazine and newspaper articles and stories, will speak at the Cerro Coso Community College lecture center on Saturday at 7:30 p.m.

Ellison's writings in the fields of speculative fiction, fantasy and science fiction have reaped multitudinous awards. He was called "an amazing talent" by Tom Snyder on the NBC Tomorrow Show, and the Los Angeles Times has declared him "a first-rate novelist and highly skilled screenwriter, as well as a man of passion." Before his writing began to sell, Ellison

Members' Party at CPO Club set, tickets on sale

Tickets, priced at \$6 per person are now on sale at the Chief Petty Officers' Club for the first annual CPO Members' Party which is to be held there on Saturday, Dec. 10.

The dinner special for the evening will be a buffet with wine served from 7 to 9 o'clock. Ed Frezza Trio, a local contemporary rock group, will perform for the dancing and listening pleasure of CPO Club members from 9 p.m. to 1 a.m.

Reservations for the members' party may be made at the CPO Club or by calling the CPO office on NWC ext. 3633.

CPO Club slates dance

The Ed Frezza Trio, a local contemporary rock group, will play for the dancing and listening pleasure of Chief Petty Officers' Club patrons tomorrow from 9 p.m. to 1 a.m.

Knight will be seen as Amy Lawrence, Kathy Karner is featured as Becky Thatcher, and Brett Battles enacts the part of Joe Harper.

Others in the cast are Deleah White as Mrs. Harper, Juli Pinney as Mrs. Thatcher, Cathy Connelly as Mary Rogers, Brian Detting as Walter Potter, Dalene Howard as the widow Douglas, and Eric Weathersbee as Injun Joe.

Traditionally the Burroughs Drama Club president selects, casts, and directs all Children's Theatre productions. Rus Stedman is directing "Tom Sawyer," with Wave Seybold as his assistant director. Technical director for the production is Stan Caine. Jon McArtor is the stage manager; Ruth Ellen Alger, the costume mistress; Gwyn Standard, properties mistress; and Gunnar Anderson is the lighting director. Caine and Rob McArtor are handling the publicity.

The Burroughs Children's Theatre is sponsored and supervised by Alan Kubik, local high school drama instructor.

worked in a variety of jobs, including tent-rigger, shill for a traveling carnival, cab driver, itinerant crop-picker, rubbish collector, and bridge painter. He also has worked as a tuna fisherman, dynamite truck driver, short order cook, and door-to-door salesman.

This wealth of background experience has provided him with information and understanding that he has been able to use well in his career as writer, critic, and lecturer.

General admission for the Harlan Ellison lecture is \$2, with holders of Associated Student cards being admitted for \$1. Tickets are available at the Gift Mart and Sports Etc., in Ridgecrest, as well as at the college business office. Tickets may also be purchased at the door on the night of the lecture.

Phantoms to play for

CPO Club dance tonight

The Phantoms will be back by popular demand at the Chief Petty Officers' Club tonight. This five piece family musical group is an old China Lake favorite.

The Phantoms, led by George and Alice Smith of Rialto, will entertain CPO Club patrons with their version of modern country and soft rock music from 9 p.m. until 1 a.m.

Dinner special for the evening will be prime rib served from 6 to 9 o'clock. An attitude adjustment hour from 4 to 6 p.m. will precede the dinner and dance.

SHOWBOAT
MOVIE RATINGS
The objective of the ratings is to inform parents about the suitability of movie content for viewing by their children.
(G) - ALL AGES ADMITTED
General Audiences
(PG) - ALL AGES ADMITTED
Parental Guidance Suggested
(R) - RESTRICTED
Under 17 requires accompanying Parent or Adult Guardian
Regular starting time—7:30 p.m.
Program subject to change without notice.
For further information call NWC ext. 2259.

FRI. 2 DECEMBER

"THE WHITE BUFFALO" (103 Min.)
Charles Bronson, Will Sampson
(Action Drama) Wild Bill Hickok (Bronson), haunted by a recurrent nightmare in which he is attacked by a fierce white bison, goes on a quest to hunt and kill the bison. Chief Crazy Horse (Sampson), regards the animal as a holy bull that he must kill to wrap its pelt around the corpse of his infant daughter in order that she may cross safely into the other world. Bronson shoots the bison, while Sampson uses its pelt and Bronson, satisfied that his nightmares will cease, heads off in the opposite direction. Released June 77. (PG)

SAT. 3 DECEMBER

"THE CRATER LAKE MONSTER" (91 Min.)
Richard Cardella, Glenn Roberts
(Horror Drama) A mountain lake, serene and beautiful, with tall trees surrounding its edge make an idyllic scene. Nearby, a scientist and his assistant discover Indian cave drawings which depict man fighting what appear to be dinosaurs, thousands of year after they had disappeared from the earth. Actually, there is an aquatic dinosaur in the lake which appears periodically to terrorize the community. (PG)

SUN. 4 DECEMBER

"THE SPY WHO LOVED ME" (125 Min.)
Roger Moore, Curt Jurgens
(Action Drama) British Service Agent James Bond (Moore) kills one of the spies pursuing him down a Swiss ski trail, then parachutes to safety. He and Russian Major Barbara Bach team up to discover why nuclear submarines have been disappearing. They visit Jurgens' marine lab where missiles are about to be launched to carry out a plan to control the world. (PG)

TUES. 5 DECEMBER

"THE HARVEY GIRLS" (101 Min.)
Judy Garland, Ray Bolger
(Musical) An all-star cast consisting of Judy Garland, John Hodiak, Ray Bolger, Angela Lansbury, Preston Foster, and Cyd Charisse recreate in song and comedy a small western railroad town in the 1870s. This movie won the Academy Award in 1946 for the best original song, "On the Atchison, Topeka and Santa Fe." (G)

WED. 7 DECEMBER

"NEW YORK NEW YORK" (153 Min.)
Liza Minnelli, Robert DeNiro
(Musical Comedy) DeNiro, a GI returning from wartime action, cruises a hotel ballroom on Times Square on VJ Day looking for a good time. He is attracted to Minnelli, who returns his wisecracks and coolly fields his pitches until his persistence melts her just enough to start a romance. His career as a saxophonist begins to blossom along with her singing career. Their marriage crumbles, however, as she gains fame as a recording star and he begins sinking from public favor. (PG)

FRI. 9 DECEMBER

"BLACK OAK CONSPIRACY" (100 Min.)
Jesse Vint, Karen Carlson
(Drama) Vint returns to his home town of Black Oak, where his mother is seriously ill and learns that a mining company operator has acquired his mother's property and his former girlfriend. Through a friend, he finds out that his mother's property was not sold, but signed over to the mining company. Suspense builds as a former sheriff and the mine owner plan to safeguard the land swindling scheme by killing Vint's mother's doctor and nurse and framing Vint for the murders. Released March 77. (R)

SAT. 10 DECEMBER

Cerro Coso / Desert Community Orchestra and Cerro Coso Choir present
"THE MESSIAH"
8 p.m.

U.S. Government Printing Office: 1977 — No. 104

From: _____
To: _____
PLACE STAMP HERE

nwc rocketeer
Naval Weapons Center
China Lake
California
December 2, 1977
Vol. XXXII, No. 48

Report shows drop in crime at China Lake

Major crime on the Center has continued to decline, according to statistics released by the China Lake Police Department. The first 10 months of 1977 show a 16.4 percent decline in major crime over the same period last year, with the greatest decrease being in residential burglaries (down 45 percent).

There has been an increase, however, in the category of vehicle thefts, which has gone up 25 percent. The majority of vehicle thefts involve stolen motorcycles. Even though this is the case, China Lake Police urge everyone to lock cars in order to discourage automotive theft.

Vandalism continues to lead the statistics in the minor crime category, with 192 instances reported through October of this year in comparison to 182 for last year.

Juvenile crime figures for the first 10 months of this year are down to 257, compared to 341 last year. Vandalism, curfew violations, and trespassing account for the majority of juvenile problems handled by China Lake police.

Adult arrests are up some to a total of 149 for 1977, compared to 123 in 1976. There has been a considerable increase in the number

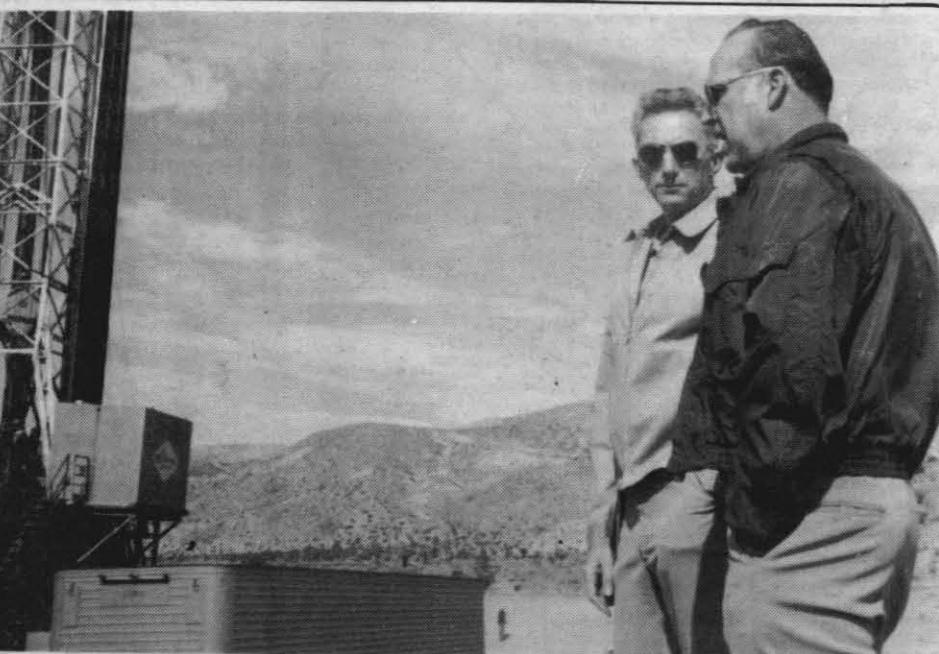
Health Benefits Program open season extended

Due to a delay in the arrival of informational material about the various plans offered under the Federal Employees' Health Benefits Program, the open season for either joining a health plan or changing from one plan to another has been extended until Friday, Dec. 16.

The brochures and other information about health plans that are available to NWC civilian employees arrived last week and their distribution began earlier this week.

NWC employees who wish to enroll or make some other permissible change in coverage should contact their Code 09 personnel clerk.

Any changes that are made now will become effective the first pay period in January 1978.



VISITS DRILLING SITE — Capt. Richard S. Walsh (on right), head of the Navy Energy Office in Washington, D.C., inspects the drilling operation under way at the Coso geothermal site. During a recent visit to NWC, he was accompanied to the Coso geothermal area by Capt. R. B. Wilson, head of the Public Works Department. —Photo by Dick Fullmer

Exploratory development work under way on vertical-seeking aircrew escape system

By Mickey Strang

When an in-flight emergency occurs, a pilot needs to be able to eject clear of the aircraft and upright so that his parachute can deploy safely.

If he has to eject "out-of-envelope"—500 feet or less above ground level and with the aircraft being either at an angle to the ground or inverted—his problem is compounded. The vertical-seeking aircrew escape system under exploratory development at the Naval Weapons Center promises to solve that problem.

The new system applies missile technology to automatically steer the pilot's seat into a vertical-up trajectory regardless of the angle at which he ejected. Trajectory simulation studies show that the vertical-seeking system can recover crew members from an inverted aircraft flying at 50 feet above ground level at the time of ejection.

The first test of a three-test series of the new system was successfully completed at the Supersonic Naval Ordnance Research Track (SNORT) recently; an anthropomorphic dummy strapped to a seat was ejected from the cockpit of an A-6 aircraft mounted on a sled. This zero-speed, zero-altitude test demonstrated that the ejected seat holding the dummy was completely stable in pitch and roll throughout the entire flight.

Second Test Being Planned

In the second test now being planned, the A-6 cockpit will be mounted between the two towers at SNORT at a 90-degree bank angle to the ground so that the seat will be ejected parallel to the ground at an elevation of about 100 feet and will steer into a vertical trajectory. For the third test the cockpit will again be mounted between the two towers at 100 feet—but upside down. Equally successful results for these two tests are anticipated.

The vertical-seeking aircrew escape system forms part of the whole seat ejection system being developed by the Naval Air Development Center, Warminster, Pa., the lead laboratory for life support systems. NADC is funding the work being done by NWC personnel, who are utilizing skills and technology in aircrew escape systems dating from the development of the Rocket-Assisted Personnel Ejection Catapult (RAPEC) at China Lake in the 1950s. The



UP AND AWAY! — The seat and dummy soar skyward after ejection from the sled-mounted A-6 aircraft cockpit. This zero-altitude, zero-speed test demonstrated the stability of the vertical-seeking aircrew escape system. Further tests planned will demonstrate the system's capability to achieve a vertical-up trajectory when ejection takes place from either a banked or an inverted cockpit.

National Parachute Test Range has supported the parachute work.

The vertical-seeking aircrew escape system consists of a digital autopilot and the seat steering system.

The autopilot, developed and fabricated by the Weapons Department, consists of a three-axis electro-mechanical rate gyro package, a microcomputer, and the needed

ancillary electronics.

The rate gyro package is initialized by the aircraft attitude system at the time of ejection and supplies seat attitude information to the microcomputer, which then issues commands to the gimbaled rocket motor in the seat steering system. The rocket motor is an underseat thrust

(Continued on Page 3)

Drilling operations around clock continue at Coso geothermal area

Drilling operations at what experts believe is one of the three most promising geothermal energy resources in the western part of the United States are being continued around the clock at the Coso geothermal site located within the Naval Weapons Center's northern range area.

Three months have elapsed since an oilfield-type drilling rig with its 133 ft. tower was mounted on a 20 ft. substructure by crews of the Big O Drilling Co. of Bakersfield and the work began.

Drilling Operation Objective

Objective of the drilling operation, which is being funded by the Department of Energy's (formerly the Energy Research and Development Administration's) Division of Geothermal Energy, is to penetrate deep enough below the surface to determine the temperatures, fluid composition and their quantities in a portion of the Coso geothermal area, and to enable further evaluation of the possibilities for utilizing the extreme underground heat as a source of geothermal energy.

Earlier this week, the drilling work had reached a depth of around 4,800 ft., and the present plan is to continue drilling to a depth of 6,000 ft., according to Dr. Carl Austin, head of the Geothermal Division in the NWC Public Works Department.

At this time the switchover is being made from drilling with mud (that is, pumping mud down inside the drill pipe) to drilling with a mixture of air and water. The drill

hole, it was noted by Dr. Austin, has not yet been allowed to produce super-heated fluids, although this is expected once the drilling mud which seals the underground fractures through which such fluids will flow has been removed.

When the drill hole (which has been cased with steel at varying intervals) has been cleaned out, then it is anticipated that geologists and engineers involved in this project will be able to determine the nature of the geothermal resource they're dealing with.

At best, they'll find a dry steam resource which could provide the maximum amount of energy with the least amount of leftover wastes. Less desirable is a hot water resource which could be flashed to steam. This would mean less usable energy accompanied by the problems of having to dispose of more waste materials.

Another Possible Problem

Another possible environmental problem, in addition to the disposal of waste water from a hot water source of geothermal energy, is the possible presence of highly corrosive brines and non-condensable gases that eat away equipment.

In mid-October, an advertisement was placed in the Commerce Business Daily by the Western Division of the Naval Facilities Engineering Command (NAVFACENG-COM) which called for expressions of interest from commercial firms interested

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GROUND BREAKING CEREMONY HELD — As a prelude to the start of construction on a new Kern County library in Ridgecrest, a ground breaking ceremony was held last Friday morning. The participants were (l.-r.) Ted Edwards, Mayor of Ridgecrest; Dorothy Griffin, local branch librarian; Jean Pretorius, acting Kern County librarian; Rear Admiral William L. Harris, NWC Commander, and Gene Tackett, First District Supervisor. When completed, the new library will be the latest addition to the Ridgecrest civic center at N. China Lake Blvd. and Coso St. The new 7,500 sq. ft. facility will replace a much smaller library at 250 W. Ridgecrest Blvd. Cost of the new structure, which is being built under a contract awarded to the David M. Biggar Co. of Bakersfield, is \$491,545. Funds for it are being provided by the Federal Economic Development Administration. Also under construction at this time at the civic center site is a new Kern County fire station for Ridgecrest. —Photo by Ron Allen

NWC Hebrew Congregation to celebrate Hannukah, Festival of Lights, Dec. 9-10

Hannukah, also known as the Festival of Lights, will be celebrated by the NWC Hebrew congregation—beginning with a Sabbath service that will be held next Friday, Dec. 9, starting at 7:30 p.m. in the East Wing of the All Faith Chapel.

Student Rabbi Sol Goodman will conduct the Friday night service, which is to be followed on the evening of Dec. 10 by a Hannukah Latke dinner that will be prepared by the Jewish Women's Club and the Hevre Gimmel class of the Sabbath School.

Tickets for the dinner, which will be served starting at 6 p.m. on Dec. 10, are priced at \$2.50 for adults and \$1 for children under 12 years of age. They can be reserved by calling either June Wasserman, at 375-8538, or Rosie Vitale, at 446-5186, no later than next Wednesday, Dec. 7.

The dinner on Dec. 10 will begin with a Havdallah service conducted by Student Rabbi Goldman, and be concluded with community singing. Also scheduled is the presentation of a play entitled "Twas the Night Before Hannukah."

Members of the Hevre Bet class who will have parts in the play are Mark and Ressa Stein, Tommy, Terry and Joe Vitale, Nathan Silver, Aaron Iskowitz and Rachel Felsen.

Hannukah, a Hebrew word meaning "dedication," commemorates the first victorious battle, in 165 BC, of a small band of revolutionaries in search of religious and

political freedom. The rebellion began after the Syrian king Antiochus IV, ruler of Palestine, had ordered his subjects to worship the Greek gods. Soldiers



desecrated the temple at Jerusalem, transforming it into a Greek shrine and ordered the Jews to disregard their own customs and laws.

Angered by their loss of freedom and the violation of their holiest site, the Jews rallied around Judas Maccabaeus and, after two years of fighting, the Maccabees recaptured Jerusalem, entered the temple and removed all traces of idolatrous worship.

On the third anniversary of its desecration, the Temple was re-opened for Divine services. It soon became customary to "proclaim the miracle" by lighting the Hannukah lamp, a tradition which has lasted to this day.

The Rocketeer

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NWC Commander

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DEADLINES
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Phones 3354, 3355, 2247

Promotional Opportunities

Unless otherwise specified in the ad, applications for positions listed in this column will be accepted from current NWC employees and should be filed with the person named in the ad. All others desiring employment with the Naval Weapons Center may contact the Employment-Wage and Classification Division, Code 092, Ext. 2045. Ads will run for one week and will close at 4:30 p.m. on the Friday following their appearance in this column, unless a later date is specified in the ad. Employees whose work history has not been brought up to date within the last six months are encouraged to file a Form 171 or 172 in their personnel jacket. Information concerning the Merit Promotion Program and the evaluation methods used in these promotional opportunities may be obtained from your Personnel Management Advisor (Code 096 or 097). Advertising positions in the Promotional Opportunities column does not preclude the use of alternate recruiting sources in filling these positions. As part of the rating process, a supervisor appraisal will be sent to the current supervisor and the most recent previous supervisor of those applicants rated as basically qualified. The Naval Weapons Center is an equal opportunity employer and selection shall be made without discrimination for any nonmerit reason. The minimum qualification requirements for all GS positions are defined in CSC Handbook X-116, while those for all WG, WL and WS positions are defined in CSC Handbook X-118C.

Plant Account Technician, GS-501-S/4, PD No. 770803, Code 0863 — This position is located in the Plant Property Branch, Office of Finance and Management. Duties include: Managerial control of an assigned segment of plant property records covering a wide range of equipment; coordinates triennial as well as other informal intervening inventories as determined by Center management; maintains a work contact with managers, custodians, and other plant property representatives on documentation and accounting for plant property; and makes regular scheduled "walk-through" inspection of assigned area. **Job Relevant Criteria:** Knowledge of DIPEC and FSN Manuals, NIF hand books, NAVCOMPT Manuals, NWC Instructions and Plant Property Operations Handbook, knowledge of plant property management and control, ability to work independently; ability to make prompt and effective decisions.

Clerk-Typist or Clerk-DMT, GS-322-3/4 or GS-314-4, PD No. 7417024, Code 12 — This is an intermittent position located in the Word Processing Center II. The incumbent types letters, memoranda and various reports, both technical and financial, from rough drafts or transcribes material from dictation equipment. **Job Relevant Criteria:** Ability to work under pressure, ability to use dictating machine transcriber, ability to work with a minimum of supervision.

Supervisory Operating Accountant, GS-510-9/11/12, PD No. 7708099, Code 0862 — This position is Head, Cost Accounting Branch, Office of Finance and Management. The incumbent manages (plans, organizes, controls and directs) operations of the Cost Accounting Branch, is responsible for providing accounting services to all departments at NWC, insures that all transactions are legally and procedurally correct and, assists the Head, Accounting Division in developing major policies, plans and programs in the division. **Job Relevant Criteria:** GS-9/11/12: Ability to supervise, ability to deal effectively with people, ability to direct the operational aspects of a total NIF accounting system. GS-12: Ability to supervise; knowledge of general, cost and systems accounting; knowledge of the principles of budgeting, supply management, and ADP methods related to accounting activities.

Computer Clerk (Typing), GS-303-4/5/4 or Clerk-Typist, GS-322-3/4, PD No. 7445009, Code 096 — This position is located in the Personnel Services Division No. 1 in the Personnel Department. Incumbent performs the following duties for a major department(s): Processes all actions affecting appointment, promotion, change to lower grade, transfer, within-grade and quality step increase, pay adjustment, separation, and conversion of appointments; prescribes and maintains the qualifications, ratings, processes classification actions and maintains associated files and records; processes claims for retirement, etc. **Job Relevant Criteria: Personnel Clerk (Typing), GS-3/4/5:** Qualified typist; ability to work independently; firm regulatory background of current EPM, CMMI, SECNAV, OCP and NWC instructions related to the processing of personnel actions; extensive experience in non-competitive qualification ratings utilizing X-118 and 4 Element Standards; ability to provide procedural information concerning Federal health and life insurance, retirement, and other areas related to personnel. **Clerk-Typist, GS-3/4:** Qualified typist; ability to comprehend and apply regulatory information such as EPM, CMMI, SECNAV, OCP and NWC instructions; ability to provide limited procedural information in such areas as health insurance, life insurance, retirement and other areas related to personnel; ability to deal tactfully with people.

File applications for above with Tina Rockdale, Bldg. 34, Rm. 206, Ph. 2676.

Communications Operator, GS-322-7, PD No. 7731088, Code 3142 — This position is located in the A6/A7 Simulation Branch, Avionics Division, Systems Development Department. The incumbent serves as an operator to validate the operational flight programs for the A7E aircraft. The operator is responsible for running flight profiles, logging data, and identifying errors and deficiencies in the flight programs. The incumbent uses instruments and A7E navigation and weapon delivery system simulator and performs navigational operations in a mock-up cockpit. Incumbent operates three computers using main consoles, magnetic and punch tape units, card reader, teletype, memory loader/verifier, etc. The operator is required to do some programming and keeping records. **Job Relevant Criteria:** Knowledge of medium-scale computers, ability to operate in a real time multi-computer environment; knowledge of A7E navigation and weapons delivery system or equivalent experience, knowledge of Fortran; ability to meet deadlines under pressure, ability to get along with others in the work group. **Promotion potential:** GS-9.

File applications for the above with Pat Gaunt, Bldg. 34, Rm. 212, Ph. 2514.

Clerk-Typist, GS-322-3/4, PD No. 7730364N, Code 32 — This position is located in the Ordnance Systems Department Office. The incumbent types final copies of forms, technical reports, and correspondence (usually from handwritten rough drafts), ensuring that correct spelling, punctuation, and grammar are observed. Acting as department office receptionist, incumbent screens incoming calls and visitors to direct them to appropriate personnel. Handles travel arrangements and associated paperwork for department staff personnel, prepares stub requisitions and work authorizations, maintains travel and training files, and acts for the department office services supervisor during her absence. **Job Relevant Criteria:** Ability type complex material with speed and accuracy; knowledge of Navy correspondence procedures and format; demonstrated ability to deal tactfully but effectively with all levels of NWC employees; knowledge of correct spelling, punctuation, and English usage.

Clerk-Typist, GS-322-3/4, PD No. 7345073, Code 3261 — This position is located in the Warhead Development Branch, Conventional Weapons Division, Ordnance Systems Department. The incumbent is responsible for reading and routing incoming mail and correspondence according to subject matter; types technical reports from rough drafts; serves as branch receptionist; maintains

branch files and records; and performs other job related duties, such as making travel arrangements, preparing time cards, and overseeing the use and status of requisition stubs. **Job Relevant Criteria:** Ability to type with speed and accuracy, knowledge of NWC organization, ability to work with minimal supervision, knowledge of a variety of clerical/secretarial duties (Navy filing and correspondence procedures), travel orders, receptionist decorum, etc.).

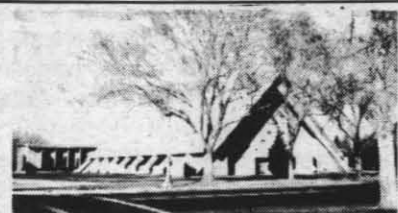
File applications for the above with Mary Morrison, Bldg. 34, Rm. 210, Ph. 2393.

Electronics Engineer, GS-655-9/11, PD No. 7735077E, Code 3511 — This position is that of electronics engineer in the Systems Simulation Branch, Systems Sciences Division of the Electronic Warfare Department. The incumbent designs, develops and evaluates complex software programs for use by a variety of airborne mini-computers. He also conducts analyses to establish software requirements and to assess software performance and effectiveness. The incumbent will be required to program in both machine and assembly language of the particular computer utilized. He will also have to efficiently translate programs from one computer to another. **Job Relevant Criteria:** Knowledge in the area of mini-computer design and operations, experience in writing or designing computer programs in machine and assembly language, experience in evaluating electronic systems and their software subsystems, ability to communicate well both orally and in writing. **Promotion potential:** to the GS-12 level.

Mathematician, GS-1520-9/11, PD No. 7735076E, Code 3511 — This position is that of mathematician located in the Systems Simulation Branch, Systems Sciences Division of the Electronic Warfare Department. The incumbent will conduct mathematical studies and analyses, especially those involving weapon systems design. He will evaluate proposed weapon system concepts. Evaluations will include such areas as technical soundness, ability, effectiveness and operational requirements. The incumbent will also be required to design real-time software programs. **Job Relevant Criteria:** Experience in evaluating and analyzing weapons systems, experience developing or modifying mathematical simulations on computers related to weapons systems design, experience with computer programs, ability to communicate well both orally and in writing. **Promotion potential:** to the GS-12 level.

Aerospace Engineer, GS-861-9/11, PD No. 7735078E, Code 3511 — This position is that of aerospace engineer in the Systems Simulation Branch, Systems Sciences Division of the Electronic Warfare Department. The incumbent conducts studies and analyzes the aerodynamic of weapon systems. These studies will be theoretical investigations augmented when necessary by tests and/or research programs which will be developed and monitored by the incumbent. The incumbent will undertake problems by use of analytical treatment or large scale analog or digital computers. **Job Relevant Criteria:** Experience solving or addressing weapon system problems, experience in establishing testing or research procedures or programs, experience in the use of computers for simulation purposes, ability to communicate

(Continued on Page 7)



DIVINE SERVICES

PROTESTANT		
Sunday Worship Service		1015
Sunday School — All Ages		0900
Sunday School Classes are held in Chapel Annexes 1, 2, 4, (Dorms 5, 6, 8) located opposite the former Center Restaurant.		
Communion Service first Sunday of the Month.		
ECUMENICAL		
Wednesday Noon Bible Study		1130
Thursday Men's Prayer Breakfast		0630
ROMAN CATHOLIC		
MASS		
Saturday 1700 fulfills Sunday obligation		
Sunday 0700 0830 1130		
Nursery, Chapel Annex 1		0815-1245
Daily except Saturday, 1135, Blessed Sacrament		Chapel
CONFESSIONS		
Daily	1115 to 1130	
Saturday	1615 to 1645	
Sunday	0800 to 0825	
RELIGIOUS EDUCATION CLASSES		
Sunday First thru 4th grades		1015
Sunday Pre-school & kindergarten		1115
Sunday seventh & eighth (Junior High)		1900
Above classes are held in the Chapel Annexes across from the former Center Restaurant.		
Sunday evening Ninth thru 12th grades		
As announced "In Home" Discussion Groups		Youth Rallies
Contact Chaplain's Office for specifics.		
JEWISH SERVICES		
EAST WING—ALL FAITH CHAPEL		
Sabbath Services every Friday		1930
UNITARIANS		
CHAPEL ANNEX 95		
Services—(Sept.-May)		1930

Elks Lodge keglers now 2 games behind Fisher Plastering

The Elks Lodge keglers picked up a game on the first place Fisher Plastering team during Monday night's action in the Premier Bowling League at Hall Memorial Lanes.

The Elks, who are now just two games behind the league leaders, shut out Pollock Construction three games to zip, while Fisher Plastering won two games and lost one to the Hideaway squad.

It was a good night for the Elks, who rolled the high team game (1,022) and high team series (2,936).

Jack Brown was a distant front runner for high individual series honors with a three-game total of 656. Other Premier League bowlers over the 600 mark, and their scores, were: Jim Wright (628), Dick Reymore and Mike Dowd (623), Dick Furstenberg (616), Chuck Albright (613) and Bill Osborne (604).

Both Dowd and Wright rolled three games of 200 or better. Dowd's single game totals were 220, 202 and 201, while Wright fashioned a triple 200 series from games of 212, 201 and 215.

Premier League bowlers who had single game scores in excess of 220 were: Brown (269), Furstenberg (265), Albright (244), Al Smith (235), Warren Turnbaugh (228), Osborne (223), Reymore and Chuck Cut-singer (222), and Glen Collins (221).

China Lake Skeet, Trap Club slates turkey shoot Sat.

The China Lake Skeet and Trap Club will sponsor a turkey shoot tomorrow from 9:30 a.m. to 3 p.m. at the Special Services trap and skeet range which is located on Sport-sman Rd. on the Naval Weapons Center.

Gift certificates will be awarded to the winners of the various events that have been scheduled. A trap shoot only also is scheduled for youngsters 15 years of age and under and the winners will receive certificates in the same amount as the adults.

The turkey shoot is open to all residents of the Indian Wells Valley and special event passes may be obtained at the NWC main gate, starting at 9 a.m.

Doug's Corner...

(Continued from Page 6)
the cost of trophies that will be awarded to the winners in each division.

Camping Gear Available

A complete array of camping equipment, which is stored in the Special Services Division's Camping Issue Rm., is available for rent by Naval Weapons Center civilian employees and military personnel.

The Camping Issue Rm., which is located in back of the old Station Restaurant, is open on Mondays from 1 to 5 p.m.; Tuesdays through Fridays from 2 to 9 p.m., and on Saturdays from 9 a.m. until 4 p.m.

The types of gear that is available for rent ranges from large tents (\$1 per day) or small tents (75 cents per day) to sleeping bags, cots, lanterns, stoves, heaters, ice chests and thermos jugs, fishing rods and reels, hammocks and outdoor cooking equipment.

A limited number of tent trailers, which rent for \$5 per day, also are available. Reservations are required from those who wish to rent a tent trailer.

Burros basketball ...

(Continued from Page 6)

Coach Bird observed. As far as free throws go, the Burros had a poor percentage as they were able to cash in on just 11 of 19 opportunities at the charity stripe.

The Burros varsity cagers are expected to have their hands full in tomorrow night's contest with East High—a team which they edged, 73-70, early in the season a year ago. Last year's BHS quintet was, however, much stronger and more experienced than is the current one.

Employee in the Spotlight



Charlotte Paulsen

bachelor's degree she hopes she will be able to work either in the Personnel Dept., with the Equal Employment Opportunity Program, or work as a paraprofessional with the Desert Counseling Clinic.

"Class work has been a long, slow process for me," says Charlotte, "especially when trying to raise a family."

Charlotte and her husband Allan, who is an engineer in the Telemetry Operations Branch of the Range Dept., have three children—Richard, 18, a freshman at the University of California Santa Cruz; Diana, 12, who is at Porterville; and Jeannette, 10.

Charlotte and Allan are both graduates of Burroughs High School, although in different years. She came to China Lake during the last half of her senior year in high school when her father, a career Navy officer, was assigned to duty at the Dispensary. (Underlining her Navy background, Charlotte was born at Annapolis, Md., while her father was stationed there.)

"Allan's parents and mine were square dancers, and they introduced us because, unexpectedly, neither of us had a date for the New Year's Eve dance. Allan was a student at Cal Poly in San Luis Obispo, and was home for the holidays. Neither of us were square dancers then - we took that up much later - but I'm very glad that our parents were!" Charlotte adds.

A close-knit family unit, Charlotte and Allan enjoy going camping and hiking in the Sierra where they can enjoy the scenery. The Mammoth Lakes area is a particularly favorite place for them to go to relax, but Charlotte says that she is definitely not a skier—at least, not yet.

She does not really share Allan's interest in the garden that he has been cultivating around their mobile home ("He even wants to put chickens and rabbits on it!"), but a family taste for rural living will include getting a pony for daughter Jeannette this spring.

On being asked how she manages to fit everything into her days, Charlotte laughs and adds that "I don't have anything scheduled between midnight and 5 a.m." So far, that is.

Promotional Opportunities

(Continued from Page 2)

well both orally and in writing. **Promotion potential:** to the GS-12 level.

File applications for the above with Charlotte Siewkowski, Bldg. 34, Rm. 204, Ph. 3118.

Mechanical Engineer, GS-830-11/12 or Aerospace Engineer, GS-861-11/12, PD No. 7736133E, Code 3413 — This position is located in the Environmental Engineering Branch, Engineering Services Division, Engineering Department. Duties include analysis, measurement, and test of missile structures and components in vibration, shock, and dynamic loadings. **Job Relevant Criteria:** Ability to apply statistical concepts to shock and vibration analysis and experiments, ability to program mini and full-size computer for analysis and experiments, ability to conduct structural, stress and dynamic analyses.

Electronics Engineer, GS-655-11/12 or Physicist, GS-1310-11/12, PD No. 7736014E, Code 3413 — This position is located in the Environmental Engineering Branch, Engineering Services Division, Engineering Department. Duties are primarily related to specifying, integrating, and evaluating instrumentation systems for measurements of dynamic and thermal quantities. Responsibilities include entire systems from transducer to recorder in both laboratory and field tests. Incumbent is the branch authority on instrumentation and interfacing and is responsible for engineering applications of mini- and micro-computers, especially for instrumentation.

If necessary, incumbent will design and fabricate new electronic hardware to facilitate data acquisition and analysis. A smaller part of the duties include overall responsibility for managing the equipment resources of the branch, making basic decisions concerning leases, maintenance contracts, and equipment purchases. **Job Relevant Criteria:** Knowledge of electronic circuit design; background in general purpose computer programming; experience in theory and application of both analog and digital systems design and instrumentation; and knowledge of mini- and micro-computer uses and applications.

Quality Assurance Specialist, GS-1910-9, PD No. 7555128N, Code 3482 — This position is located in the Quality Assurance Branch, Product Assurance Division, Engineering Department. Incumbent participates in review of contractual quality assurance requirements of items for weapon and missile systems; reviews hardware drawings and documentation from a producibility, quality

assurance and inspectability viewpoint; reviews results of tests, inspections, and reports; and reviews contractors quality programs. **Job Relevant Criteria:** Must have experience in production, manufacturing, inspection, and quality control as essential to industrial technology and manufacturing process; knowledge of standard sampling plans and procedures to evaluate statistical data and deficiency reports. **Promotion Potential:** GS-12.

Secretary (Typing) GS-318-5, PD No. 7735507N, Code 368 — This position is located in Product Assurance Division, Engineering Department. Incumbent is secretary to Head, Product Assurance Division. Duties include receiving calls and visitors, receiving and screening division correspondence, reviewing out-going correspondence, keeping division head's calendar, typing a variety of correspondence and reports, and maintaining files. **Job Relevant Criteria:** Must be qualified typist, ability to operate a magnetic card 11 typewriter is desired, knowledge of proper format for Navy correspondence.

Clerk-Typist GS-322-3/3, PD No. 7436222N, Code 34022 — Position is located in the Sideliner Program Office, Engineering Design Division, Engineering Department. Incumbent types a variety of technical reports, correspondence, statistical tabulations, and memoranda; receives and distributes mail; and maintains program office files. **Job Relevant Criteria:** Must be qualified typist and have working knowledge of general office procedures.

Machinist, WG-3414-10, JD No. 149-4N, Code 34441/34442 (2 vacancies) — Positions are located in the Experimental Prototype Shop, Engineering Prototype Division, Engineering Department. Duties include setting up and operating various machine tools, including lathes, and sizes of lathes, boring mills, milling machines, shapers, planers, precision grinding machines, and specialized multi-purpose machines related to these; makes complex set-ups and precise alignments of work pieces in machines; performs precision handwork to fit, finish, and assemble machined parts on bench or shop floor; repairs and restores worn machinery; follows blueprints, figures dimensions, selects and lays out appropriate metals to be machined; and shapes metals by use of hand tools. **Job Relevant Criteria:** Set-up and operation of machine tools; trade theory and technical practices; shop drawings; lay-out work, and measuring devices; handtools and fitting; knowledge of the characteristics of and the ability to work with materials

used in the machinist trade; ability to do the work of the position without more than normal supervision. Supplementals are required and may be picked up in Rm. 204 of the Personnel Building. **Promotion Potential:** WG-11.

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

Clerk (Typing), GS-301-4/5, PD No. 7451087N, Code 394 — This position is located in the Weapons Department, Electro-Optics Division. The incumbent provides a variety of duties for the division office members, such as maintaining and setting up appointments and meetings; receiving and screening visitors and phone calls; receiving, opening and screening mail; making travel arrangements; maintaining time-keeping and leave records; maintaining division files; receiving and returning classified documents; and typing memoranda and off-center correspondence. **Job Relevant Criteria:** Familiar with Navy correspondence, capable of preparing official correspondence from notes, ability to set up and maintain files, knowledge of English grammar and spelling.

File applications for the above with Marge Stanton, Bldg. 34, Rm. 204, Ph. 2723.

Interdisciplinary Scientist/Engineer, GS-12, PD No. 7730748E, Code 32003 — This is an interdisciplinary position classifiable in any of the following disciplines depending upon the qualifications of the selectee: Mechanical Engineer, GS-830-11/12; Electronics Engineer, GS-655-11/12; or Physicist, GS-1310. This position is located in the Encounter Simulation Laboratory, Systems Analysis Division, Fuze Department. The incumbent will be physically located at the Encounter Simulation Laboratory, Corona, Calif. The purpose of this position is to be responsible for test planning and operations which determine the performance levels and limitations of fuzing and guidance sensors and provide the basis for evaluating alternative designs according to the ordnance and weapons systems effectiveness. Other duties include execution of test plans and revisions/modifications as needed and reviewing data for acceptability prior to evaluating sensor performance. **Job Relevant Criteria:** Knowledge of sensor operating principles and theory; knowledge of probability and statistics; experience in data acquisition/processing; ability to technically direct others.

Mathematics Technician, GS-1521-7, PD No. 7730739N, Code 3231 (2 vacancies) — These positions are located in Systems Analysis Branch I, Systems Analysis Division, Fuze Department. Using furnished mathematical equations representing theoretical or actual conditions relating to the function of projected or actual ordnance and/or warheads, the incumbent will derive digital computer programs to simulate the weapons system. In addition, with the help of senior branch personnel, the incumbent will perform analyses for solving problems in the field of air-to-surface or air-to-air missile ordnance. **Job Relevant Criteria:** Experience in data reduction, experience in computer programming, knowledge of trigonometry and basic statistics. Applications accepted from status eligibles.

Freight Classification Assistant GS-3131-5/6/7, PD No. 7655042N, Code 35942 — This position is located in the Shipment Section, Traffic Branch, Material Division, Supply Department. Incumbent verifies the authority for shipment of material and equipment, determines proper transportation funding, assigns required delivery dates, consolidates compatible materials to single destinations, determines the proper freight classification of shipments, and is responsible for proper preparation of associated paperwork. **Job Relevant Criteria:** Knowledge of hazardous materials and their compatibility for shipping and storage; basic understanding of transportation funding and transportation account codes; ability to use fact and diplomacy in dealing with both on- and off-center personnel. Applications will be accepted from status eligibles.

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



—Photo by PH3 B. J. Beckman

INVENTORS CONTRATULATED — W. B. Porter (at right), head of the Weapons Department, recently presented patent awards to Arthen Iverson (at left) and Jon Bumgardner. The latter, an electronics engineer in the Electronics Branch of the Weapons Department, was responsible for developing an optical frequency processor. Iverson, an electronics engineer in the Electro-optical Sensors Branch of the Fuze Department received a patent for his work on optical slippings which transfer light signals from a rotary body to a non-rotary body.



Doug's Corner

Dodgers' baseball players to vie in exhibition hoop tilt

A traveling basketball team composed of eight members of the National League Champion Los Angeles Dodgers baseball squad will be at the Burroughs High School gym next Wednesday night for an exhibition basketball game.

Tip-off time will be 7:30 p.m., and advance ticket sales indicate that there will be a capacity crowd on hand for this event, which is being staged as a fund-raiser with all proceeds from the admission price of \$3 per person earmarked for improvement of athletic facilities at the local high school.

Los Angeles Dodgers baseball players who will be here for a game with a team composed of NWC Intramural League basketball players and members of the Burroughs High athletic and coaching staff are Steve Yeager, Ron Cey, Steve Garvey, Rick Monday, Rick Rhoden, Glen Burke, Lee Lacey and Mark Cresse.

Ticket sales for this special event, which is being co-sponsored by the IWV Century Football Association and the NWC Special Services Division, are being handled at the China Lake Community Center and in Ridgecrest at Hucek's Travel Agency and The Hideaway.

A limited number of tickets will be available at the Burroughs High gymnasium box office for those who do not have a chance to purchase theirs prior to next Wednesday night's game.

Rocketball Tourney Stated

Rocketball players who aren't signed up to compete in this weekend's tournament are out of luck as far as getting onto the local courts to play.

The tournament is scheduled to get under way this evening at 6 and end some time late Sunday night.

This is a double elimination event, and entrants have been placed in either advanced, intermediate or novice divisions depending upon their playing ability. The entry of \$2 per player will be used to cover

(Continued on Page 7)

Results reported in NWC Intramural Basketball League

Victory in a hard-fought 63-60 game with the F. A. C. team from Trona last week enabled the Loewen's No. 1 squad to move into first place in Division A of the NWC Intramural Basketball League.

Because of the Thanksgiving holiday, no games were played on Thursday of last week. As a result, the total number of contests for the week was reduced to five.

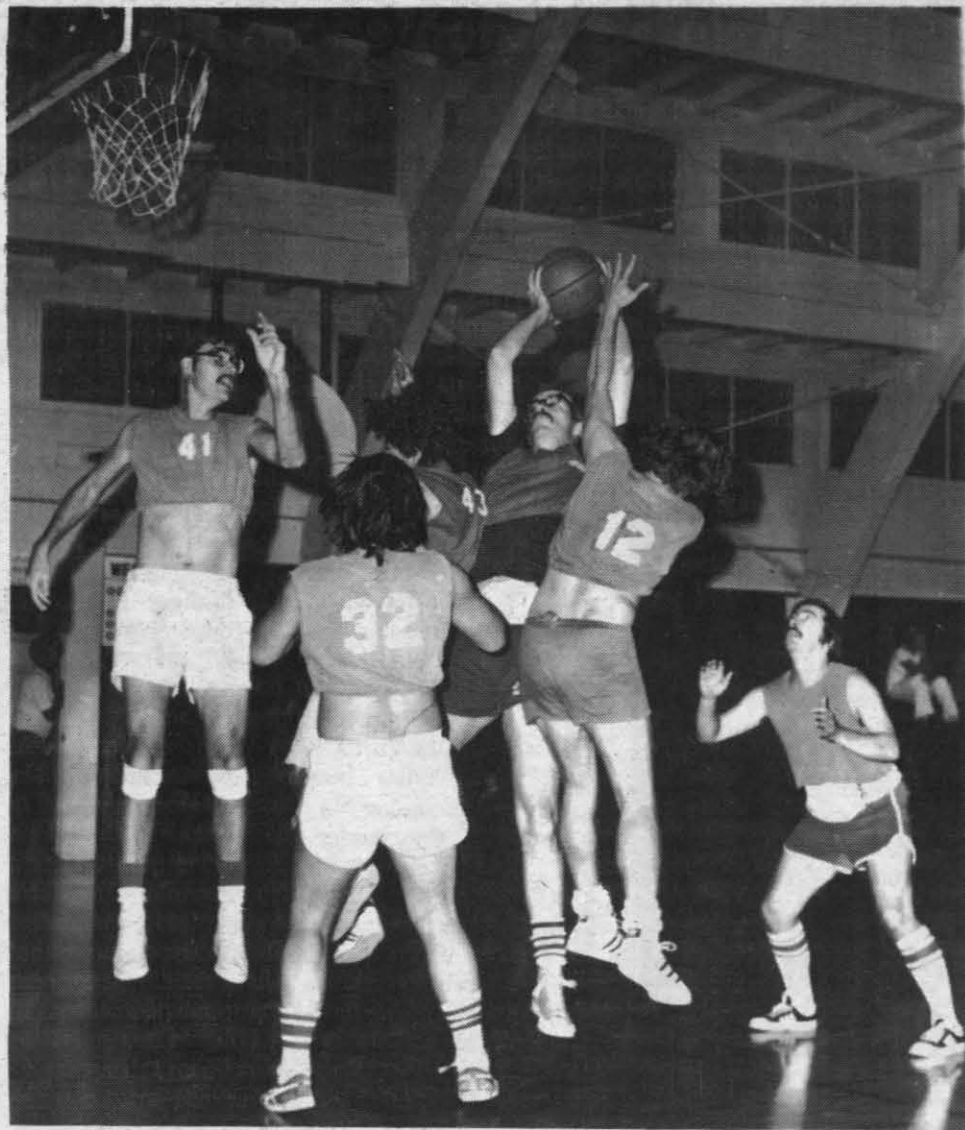
In other Division A competition, the Devils Guns blasted the Clansmen, 59-46, while the lone Division B contest was by the Bebops, who outscored the Speedway quintet, 42-26.

The Renegades, Division C leaders, picked up their second win of the season by corraling the Wild Bunch, 42-36, and Team W knocked off the Lobos, 40-31, in another Division C tilt.

Next week's schedule of intramural league basketball games is as follows:

Tuesday — Clansman vs. Desert Motors, 6 p.m.; Foremost Boys vs. Worms, 7:15 p.m., and Renegades vs. Jokers, 8:30 p.m.

Thursday — Desert Motors vs. Devils Guns, 6 p.m.; Worms vs. Short Horns, 7:15 p.m., and Wild Bunch vs. Team X, 8:30 p.m.



INTRAMURAL LEAGUE CAGERS CLASH — During last week's NWC Intramural Basketball League action at the Center gym, the Lobos were outscored 40-31 by Team W in this Division C contest. Shown trying to get off a shot at the basket is Dan Hiett, center for Team W, who is being harassed by Kerry Lytle of the Lobos. Other players for the Lobos are Curtis Sandberg (No. 41), Roland Fredette (No. 32) and (at right) Don Fredette. Nearly hidden in the group of players is Mike Mullens (No. 43) of Team W. Intramural Basketball League games are scheduled on Tuesday, Wednesday and Thursday nights starting at 6 o'clock at the Center gym. —Photo by Ron Allen

Burros varsity cagers open '77-78 season Sat. night against East High

The Burroughs High School varsity basketball team, coached by Larry Bird, has a busy week of non-league action coming up, beginning tomorrow night when the Burros will host the East High School Blades from Bakersfield.

Tip-off time will be 8 p.m. for the varsity clash, which is to be preceded by sophomore and junior varsity contests at 5 and 6:30 p.m., respectively.

Canceled unexpectedly was a game that had been scheduled tonight against the Rubidoux High School hoopers from Riverside. The Ivy League team pulled out of a home-and-home agreement made last year when the Burros traveled to Riverside to play their first non-league contest of the 1976-77 season.

With a new athletic director now in charge at Rubidoux, signals got crossed and the Riverside team will be playing tonight in a tournament instead of reciprocating by coming here for a game with the Burros, Verl Lillywhite, athletic director at Burroughs High, reported.

Burros Entered in Tourney

In addition to tomorrow night's game with the Blades from East High, the Burros varsity squad only will be traveling to San Luis Obispo on Thursday, Dec. 8, for the start of a three-day tournament.

The BHS varsity squad warmed up for Saturday night's game with East High School by engaging in a scrimmage on Wednesday evening of last week against the Barstow High basketball team.

It was the first pre-season action for both teams and the low score (49-42 in favor of Burroughs) was indicative of the fact that the players on both teams had just a week of practice under their belts before the scrimmage began.

The Burros connected on only 36 per cent of their shots from the floor, but the Barstow Riffians hit on just one of every three attempts at the basket.

"I don't think we'll come up against too many teams this season that shoot only 33

per cent from the floor," Coach Bird remarked, adding also that he had expected the Burros to do a bit better on defense than was evident during the scrimmage.

Will Levy, a starter on the BHS jayvee squad, was the top scorer for the locals against Barstow with 15 points, and was the only player on the local high school team to get into the double-figure scoring column. Levy also led the Burros' varsity hoop squad in rebounds with 13, followed by Jay Kovar, who had 11.

All told, the BHS varsity picked off 49 of the 86 rebounds in the game, or 57 per cent. "Usually, a team must have 54 per cent of the rebounds in order to win a game,"

(Continued on Page 7)

Two members of High Desert Tumbleweeds to compete Sun. in state gymnastics meet

Climaxing a good, solid season of Class III gymnastics competition, two members of the High Desert Tumbleweeds (a group sponsored by the City of Ridgecrest Recreation Department) will go to the state meet that is conducted under the auspices of the United States Gymnastics Federation for California's top Class III gymnasts.

Denise O'Brien and DeAnne Wilson, both Burroughs High School students and both Senior Division gymnasts, will represent Ridgecrest in this major state competition, which is the top meet for Class III and the highest level that Tumbleweeds have yet attained in this class of competition.

The meet will be held on Sunday at Glenn High School in Norwalk and will be hosted by the famous Kips Gymnastics Club.

"We're really proud of how well all our girls did this year," said Marilyn Ball, head coach for the High Desert Class III team. She emphasized that competition in the Juniors' and Children's Division was especially fierce this year.

For this reason, local gymnasts in these divisions did not reach the highest levels of competition, although such promising local

Over-Hill Track Club Turkey Trot attracts nearly 90 entrants

The Over-the-Hill Track Club's annual Turkey Trot, which (appropriately) was held on Thanksgiving morning, drew a record turnout of 87 runners.

All except four of those who began the race finished the three mile event, which was run along winding desert roads and followed the route of the Burroughs High School cross country course.

From its beginning at the Cerro Coso Community College parking lot, the course was up hill and seemed to remain that way a lot of the time, a spokesman for the OTHTC observed. Classed as "moderate" by regular runners, those who do not compete on a regular basis found it difficult.

Ideal Day for Race

The temperature was ideal for such an event, and the sunny skies and gentle breezes made it a pleasure to be outside. The excellent conditions also contributed to improved times by many of the participants.

From the outset, Mark Pohl and Bob Campos, two distance runners from Burroughs High, showed the way and finished first and second, respectively, with times of 18 min., 2 sec., and 18:28.

The third runner across the finish line was Norm Nieberlein (18:49) who only four days earlier had participated in the Rose Bowl Marathon (26.2 miles). He posted a personal best time of 3 hr., 4 min., in that event.

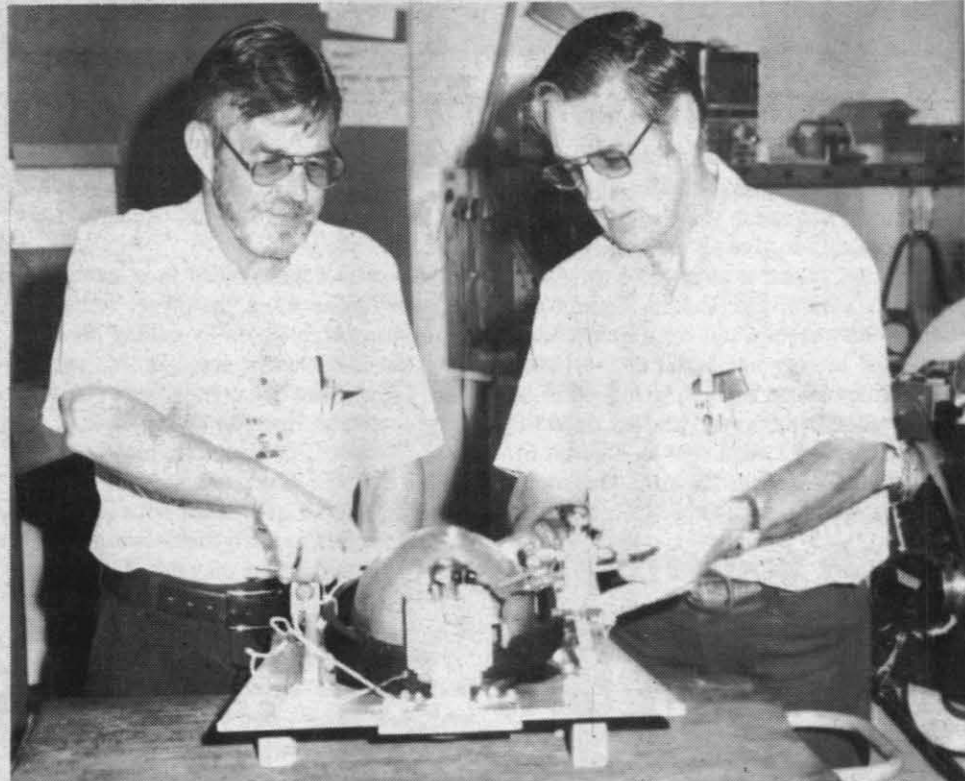
Fourth and fifth places among the men entered in the Turkey Trot were garnered by Bob Smith (19:06) and Scotty Broyles (19:34). The latter finished just ahead of Al Apodaca, a Marine from Camp Pendleton, who was clocked at 19:41.

First Woman To Finish

Karen Newmyer was the first feminine entrant to finish the 3-mile race. Her time was 23 min., 16 sec., while Suzanne Haney and Jerry Mumford were second and third, respectively, among the women entrants with times of 23:38 and 23:58. Among the women contenders some topnotch efforts in each age group were reported and there were some exciting sprints to the finish line.

In addition to the ribbons that were awarded for placing in first through fifth place in the various age groups of the distance race competition, each runner drew a handicap number that was subtracted from his or her actual time in order to determine who would win the turkeys that were offered as prizes.

Winners of turkeys were Jack Johantgen and Bryan Lloyd. The special plucked chicken award went to Bill Duncan, who finished third in the 36 to 49-year-old age group and drew a 57 handicap.



HARD AT WORK — Project manager Bill Stone (left, upper photo) and Joe Schmidt work on the gimbal-mounted rocket motor for the vertical-seeking aircrew escape system, while Ron Stoutmeyer (lower photo) checks the rate sensing device for that system. System components are tested in the Simulation Laboratory (where these pictures were taken). The rocket motor also underwent a static test at the Skytop facility prior to actual flight tests of the system. Two additional flight tests are now being planned for early in 1978.

—Photos by Ron Allen

Aircrew escape system tested...

(Continued from Page 1)

vector-control 8-in. spherical rocket motor mounted in a two-axis gimbal ring.

The motor provides the force to steer the seat clear of the aircraft and into an upright attitude. At rocket motor burn-out, the microcomputer initiates the drogue gun firing (to open the parachute), and releases the pilot's restraint system to permit his safe descent.

The seat steering system is being developed by the Systems Technology Branch of the Ordnance Systems Department under the direction of project manager W. J. (Bill) Stone.

The need for the vertical-seeking aircrew escape system is highlighted by statistics. In 1974, for instance, 53 percent of all Navy pilot ejections initiated under 100 feet above ground level and 37 percent of those initiated under 500 feet above ground level resulted in fatalities. Increasing use of Vertical Short Take-off Landing aircraft, which spend considerable time in hovering close to the ground and which can rapidly go into rolls in the event of a control system failure or other malfunction leaving a very short time to "punch out," will undoubtedly raise the number of pilot fatalities unless aircrew escape systems are dramatically improved.

College advisors due at China Lake Dec. 7

Advisors from California State College in Bakersfield will be at the Naval Weapons Center on Wednesday, Dec. 7, to talk to prospective students as well as students currently enrolled in either the bachelor of science program in business administration or the master's degree program in public administration.

Centerites interested in arranging for a counseling appointment can do so by calling the Training Center at NWC ext. 2359.

PNSN Youmans selected as NWC Sailor of Month for November

Personnelman Seaman Angela Youmans has been selected as the Naval Weapons Center's Sailor of the Month for November.

PNSN Youmans types orders, leave papers, and receipts, handles other paperwork and works with records in the Military Administration Department. She is planning a career in personnel work because she has found that it involves a variety of work with an assortment of people, which she enjoys.

Lt. P. L. Whipple, her division officer, notes in a letter of commendation that "she

Smoke detectors purchased by ESB offered for sale

Just in time for the special protection against fire that is particularly desirable during the Christmas holiday season (and all year long for that matter), the Employee Services Board has obtained 100 smoke detectors for sale to Naval Weapons Center civilian and military personnel.

According to Phil Sprankle, ESB chairman, the smoke detectors obtained by ESB are rated by the Consumer's Union as the No. 1 household accessory of their kind. Not only are they a topnotch product, but the smoke detectors can be purchased at what amounts to a 40 percent reduction compared to their normal retail price.

Centerites interested in buying one of the smoke detectors can do so (while the supply lasts) at the main fire station (corner of Halsey and Lauritsen), or Fire Station 3 (at the airfield). Fire Division personnel will be available to provide instructions on their installation.

The cost of each unit is \$29.50, which must be paid at the time of purchase in the form of a check made payable to the Employee Services Board.

All of the smoke detectors are a portable type that can be removed and taken along whenever an occupant moves to a different location. Most are battery-operated, but there are a few plug-in types for those who might prefer them.

Obtaining this limited number of smoke detectors for sale to Centerites was intended originally to be a part of NWC's annual observance of Fire Prevention Week in early October. However, the manufacturer ran into delays that held up delivery until this time.

By next summer, the NWC Housing Division expects to award contracts and have the work completed on the installation of smoke detectors in all Site A and B Capehart housing units, as well as all Navy housing quarters on "the hill."

has only to be given a task and she will ensure that it is done expeditiously and in a correct manner. Her versatility and professional knowledge are very noticeable in the accomplishment of her assigned tasks."

He comments also that she presents an outstanding example for her counterparts to emulate, and that she has cheerfully and competently assumed an extra work load when needed.

PNSN Youmans is a native of Morley, Mich., and a graduate of Morley Stanwood High School there. She enlisted in the Navy about a year after high school graduation—



PNSN Angela Youmans

seeking both education and challenge while serving her country.

She feels that in the Navy patience and hard work will ensure that anyone will get the skill and specialty he wants, and that anyone with initiative can benefit from a Navy career.

PNSN Youmans plays piano—"mainly classical, but almost any kind"—and likes both reading and watching television. She also considers walking and bicycle riding as hobbies, and used to work with the Girl Scouts.

For her selection as Sailor of the Month PNSN Youmans will receive a 96-hour liberty pass and a free dinner for two at The Shuttle.

Crime report....

(Continued from Page 1)

of adults arrested at NWC on warrants from other police agencies. Drunk driving is the single highest offense for which adults were arrested during the first 10 months of 1977. Records show there was a total of 40 such arrests from January through October of this year.



SAFE DRIVING MONTH PROCLAIMED — December, with its many parties and festive occasions to celebrate the Christmas and New Year's holiday season, once again has been proclaimed "Safe Driving Month" in communities throughout the Indian Wells Valley and Rand District. A proclamation calling attention to the hazards of drinking and driving, and wishing all citizens an enjoyable but safe holiday, was signed last week during a brief ceremony held at the Northeastern Kern County Administration Building in Ridgecrest. Duplicate copies of the proclamation were signed by (l.-r.) Dorothy Carlo, administrative director of the Council on Responsible Drinking; Paul Burns, president of the

Inyokern Chamber of Commerce; Rear Admiral William L. Harris, NWC Commander; Ted Edwards, Mayor of Ridgecrest; Gene Tackett, First District Supervisor, and Marion Arnote, president of the Rand Improvement Organization. The proclamation makes note of the fact that half of the nation's traffic injuries and fatalities involve the use of alcohol by the vehicle drivers, and its signers urge all local area residents to support "Safe Driving Month" by both word and deed. "It is only through the responsible actions of each individual that this hazard can be eliminated from the holiday season, and indeed throughout the new year," the proclamation states in part.



CONGRATULATIONS PROFFERED — Joyce McWhorter watches as her husband Marvin E. McWhorter, head of the Procurement Division of the Supply Department, is congratulated by NWC Commander RAdm. William L. Harris on his being frocked as lieutenant commander. Lcdr. McWhorter has been at China Lake since April of last year, and has been in the Navy for 9½ years. Frocking is implemented when an officer has been selected for promotion to the next higher grade, is filling a billet normally held at that higher grade, but must wait for a promotion date. The officer receives all the rights and privileges of the higher grade, even though he does not receive a raise in pay until his promotion date.

Geothermal drilling operations continue...

(Continued from Page 1)

in a contract for developing electrical power from geothermal energy on 4½ sq. miles of acquired land within the Coso geothermal area.

The overall geothermal area encompasses 450 sq. miles within a geologic "ring fracture" that spreads from Inyo County into a portion of Tulare County as well. The 4½ sq. mile area mentioned above includes land where the Navy purchased the mineral rights at the time the Naval Ordnance Test Station (forerunner to NWC) was established.

The advertisement mentioned that preliminary investigations under the auspices of NWC, the U.S. Geological Survey and ERDA indicate a potential source of geothermal power of considerable magnitude, possibly 4,000 megawatts.

NAVFACENGCOM contemplates, the ad

Workshop on use of solar energy planned by college

A one-day workshop on the use of solar energy for heating, cooling, and as a source of energy for domestic appliances will be offered by Cerro Coso Community College on Saturday, Dec. 10.

Registration for the workshop will be held in the college lecture center between 8 and 8:30 a.m. Fee for the workshop is \$5 per person, payable at the time of registration.

The workshop will be conducted by Dr. Rick Roberts, a Naval Weapons Center physicist, and Robert O. Watkins, formerly a conservation administrator with the California State Energy Commission.

Topics to be discussed include energy availability and heat flow, energy cost and its use in the home. Also to be covered will be such matters as solar energy as a source of power for space heating and cooling, hot water, cooking, lighting, and appliances.

Methods of reducing energy costs will be explained, especially with application to housing, both new and existing. Solar system design, the economics of solar systems, and current state laws dealing with solar energy will also be discussed.

The workshop will include a tour of a home equipped with solar energy.

Dr. Richard Meyers, Cerro Coso Community College president, states that courses in solar energy will be offered in the spring semester, and that the college plans a series of seminars on varied aspects of solar energy.

Those wishing further information on the workshop should contact the college by calling 375-5001.

stated, issuing a real estate license for the exploration and evaluation of approximately 4 square miles of this potential resource for which the Navy has direct subsurface jurisdiction. This exploration would be at no capital cost to the government.

As a result of this ad, and following a visit to the site that was arranged on Nov. 11, expressions of interest have been received from 15 groups or companies that are interested in bidding on the future development of this geothermal site, Dr. Austin said.

Recent visitors briefed on the Coso geothermal project have been Capt. Richard S. Walsh, head of the Navy Energy Office in Washington, D.C., who was accompanied on a tour of the geothermal area and the drilling site by Capt. R. B. Wilson, head of the NWC Public Works Department, and Dr. James Probus, Director of Navy Laboratories.

They were given rundowns on the geology and geothermal deposit and also were briefed on the drilling operation and how NWC intends to develop the area.

'An extra special' holiday gift sought during blood bank visit

With the Christmas holiday season at hand, local residents between 18 and 65 years of age who are in good health have the opportunity to give an extra special gift to a relative, friend or neighbor during next Tuesday's visit of the Houchin Community Blood Bank's mobile unit from Bakersfield.

Pints of blood contributed to the Indian Wells Valley Blood Bank's Advanced Fund will be collected between 1 and 6 p.m. at the Ridgcrest Elks Lodge, 200 E. Church St.

According to Kay Thoms, chairman, individuals may designate the person to

TV, FM Booster gp. slates election of board members Tues.

Election of a new board of directors of the community-owned television and FM radio booster system will be held on Tuesday night, starting at 7:30, during a meeting that will be held in Rm. 345 (the biology lab) at Cerro Coso Community College.

Nominations of prospective board members of the Indian Wells Valley TV Booster, Inc., can be made right up until the start of Tuesday night's meeting, and also will be accepted from the floor that evening.

All IWV residents who have donated \$5 or more during the past year to the Indian Wells Valley TV Booster, Inc., are members and are eligible to seek election to the board, nominate others, and vote in the forthcoming election.

Those wishing to submit nominations in advance can do so by calling either Don Stanton, at NWC ext. 6340, or Dan Ryan, at NWC ext. 6251.

From the group of eight board members that is chosen on Tuesday night, new officers for 1978 will be elected in January.

'Mission of Apollo Soyuz' film will be shown Mon.

A film entitled "The Mission of Apollo Soyuz" will highlight the next meeting of the China Lake Astronomical Society, which is to be held at 7:30 p.m. Monday in the group's clubhouse at 401-A McIntire St.

The film reviews the events of the joint U.S.-U.S.S.R. space project of 1975, and forecasts international missions using the Space Shuttle.

Officers of the organization for the coming year will also be elected.

The meeting is open to the public.

whom their blood is to be given, or contribute a pint of blood to the IWV Blood Bank's Advanced Fund for whoever may need it.

Those who donate blood in a particular patient's name must, however, follow up and contact Mrs. Thom by calling 375-4323, since she is the only person in this part of Kern County who can arrange for release of blood from the Houchin Blood Bank.

On Tuesday, prospective blood donors will be checked by a doctor or nurse at the blood bank, and are asked not to eat any dairy products or fatty foods within three hours prior to the time they expect to donate blood. Even a cup of coffee during this time is a "no-no," Mrs. Thoms said.

Persons whose pulse rate is over 100 will be rejected as blood donors, and anyone who has ever had hepatitis, cancer, tuberculosis, heart disease, or syphilis is banned from giving blood. In addition, prospective donors who are taking any kind of medications should let the nurse know what they are taking and the dosage.

Decorative, silver-colored ash trays that the Houchin Blood Bank gives out to those whose regular support makes them eligible for membership in the Gallon Club will be awarded again next Tuesday.

Thomas Callaghan to present lecture on 'Arms Standardization'

A lecture entitled "Standardization and Allied Economic Cooperation in Armaments" will be presented in Rm. 1000D of Michelson Laboratory on both Thursday and Friday, Dec. 8 and 9, from 2 to 4 p.m.

The speaker is Thomas A. Callaghan, Jr., who was the director of the Georgetown Center's Interdependence Project. He has been deeply involved in NATO standardization for many years.

The lecture will be preceded by a 46-minute BBC documentary film entitled "NATO and the Price of Peace"; this film resulted from interest in weapons standardization which was generated by Callaghan. The subject of this 1975 film is duplication and loss of military effectiveness and the need for a two-way street in military trade because of the growing danger of nuclear war.

A training request is not required in order to attend either session. Those interested may choose the session most convenient for them to attend.



PATENT AWARDS PRESENTED — Gerry R. Schiefer (second from right), head of the Electronic Warfare Department, presented two patent awards to Reuben E. Nyswander (far right) at a recent patent award ceremony. Nyswander, an electronic engineer in the Missile Radar Branch of the Microwave Development Division, received one patent award for a "Corona Detection Device," and the other for a "Radar Transmitter with Both Long and Short Pulse Capability." Others who received patent awards were Roger C. Wilcox, left, for a "Method and Apparatus for Magnetron Coherence" (with Arthur C. Golubiewski, who was unable to be present for the photo), and Richard P. Gagliardi, for his work on the development of a "Lightweight Broadband, Pulsed, Frequency Agile, Self-Screening Jammer for Airborne Deployment." —Photo by Ron Allen

Maturango Museum schedules talk on history, geology of Trona area

A long time Trona resident will speak informally on the history and geology of Trona at a Maturango Museum-sponsored lecture to be held at Las Flores School in Ridgecrest on Wednesday, Dec. 7, at 7:30 p.m. The meeting is open to the public and is free of charge.

Harvey Eastman, who has worked and lived in Trona since 1930, will discuss the beginnings of civilization in the local area, with a description of Indian cultures in Searles Valley.

The impact of the 49ers in the Trona area will be covered, and a description of the early days and growth of the community of Trona will be presented by the speaker. In addition, he will discuss the geology that has been so important to the economy of Searles Valley.

When Eastman was graduated from the

Stiff penalty awaits anyone found guilty of drunk driving

To protect both life and driving privileges, NWC drivers are reminded to heed admonitions about not driving after drinking. This advice is especially important during the holiday season when there is more drinking than at other times of the year.

When it is determined in NWC Traffic Court that a driver has been driving while under the influence of an intoxicant, the judge has no discretion permitted in sentencing.

According to the applicable OPNAV instruction, the judge (in the case of drunk driving) must revoke all driving privileges, without any exceptions or exemptions, for a minimum of one year. Such individuals also are placed on probation for a second year.

Cash found near COM turned over to police

Two small rolls of currency that were turned in to the China Lake police by Gary W. McKelvy, an electrical engineer in the Development Division 1 of the Fuze Department, are being held until they are claimed by the rightful owner.

The money was found by McKelvy early on the morning of Sunday, Nov. 13, in the parking lot on the west side of the Commissioned Officers' Mess.

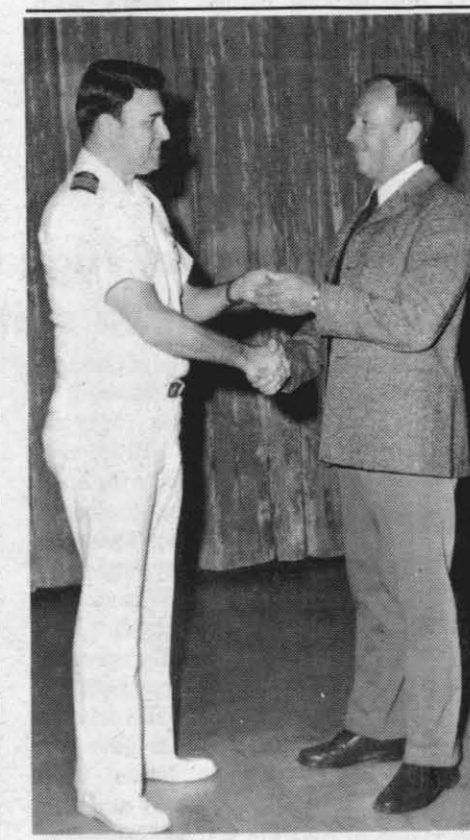
As of press time on this week's issue of The ROCKETEER, the money hadn't yet been claimed, C. A. L. Mitchell, assistant chief of police, reported.

California Institute of Technology during the depths of the Depression, he took work that was available — a job as a laborer for the American Potash and Chemical Co. in Trona. Arriving here long before the Naval Weapons Center was even an idea, he has worked his entire career in Trona, retiring in 1972.

During this 42-year span, Eastman worked at the Trona plant in production, in plant technical services, as a production foreman, in the Research Department, and finally on the computer. He was in charge of lake operations for a number of years, and during another period of time was in charge of the soda products plant.

During the time he was in the Research Department, Eastman was often called upon to show visitors around the plant. For this reason, and because he worked in so many areas, Eastman retains an encyclopedic knowledge of plant operations and of the geology of the area.

Eastman and his wife, Mary Elizabeth, have four grown children, one of whom, Jeanne Burton, is a resident of Ridgecrest.



LONG SERVICE — Director of Supply Capt. J. D. Killoran presents a 35-year federal pin to Carl Hamel, a contract specialist in the Supply Department. Hamel served in the Navy for 17 years prior to becoming a management analyst with the Supply Department at China Lake in 1960. He served here from 1950-52 as a stock control officer while on active duty.

Holiday season traffic safety program to be presented Mon.

The Naval Weapons Center's annual holiday season traffic safety program, which is coordinated by the Safety and Security Department, will be presented on Monday at 8 a.m. and again at 2 p.m. at the Center theater.

Speakers, each of whom will make brief presentations, are Judge Charles Porter, of

Reorganization of local Red Cross to be discussed Wed.

A brown bag lunch meeting for the purpose of discussing matters related to reorganization of the Ridgecrest chapter of the Red Cross will be held next Wednesday, Dec. 7, from 11:30 a.m. to 1:30 p.m., in the local Red Cross office, which is located next to the Thrift Shop on N. Lauritsen Rd.

Coming here to participate in the discussion will be three officers of the Red Cross chapter in Bakersfield. They are Harold Matlock, chairman; Barbara Gardner, executive director; and Jean Curtis, finance chairman.

The discussion will revolve around problems of the Ridgecrest chapter of the Red Cross, and how best to go about alleviating them. All interested persons are invited to attend and express their views on this matter.

The Red Cross, a people-helping-people organization, is in need of support. Local area residents who are willing to volunteer their time to assist the variety of programs and activities in which the Red Cross is involved are asked to contact Marge Ashbrook by calling 446-4139, or attend the Dec. 7 meeting.

Passes will be available at the main gate Visitors' Center for those who do not have regular access to the Naval Weapons Center.

Contributions being sought for annual Toys for Tots drive

The annual Marine Corps League Toys for Tots campaign is in high gear as the holiday season approaches.

Drop-off boxes for those who wish to contribute toys that are in good condition have been established at the Inyokern Market, K-Mart, the fire stations at both Ridgecrest and China Lake, the Daily Independent newspaper office, Eagles Lodge, Veterans of Foreign Wars building, the American Legion hall, and Toy Junction, a new toy store in Ridgecrest.

Dick Zinke, representing the Marine Corps League, will accept cash donations or checks made out to "Marine Corps League Toys for Tots" from anyone who wishes to contribute money. Zinke may be contacted by calling NWC ext. 2496, or his home phone, 375-4007.

Anyone knowing of a needy family may contact either Zinke or Rose Varga, whose phone is 446-3939. The information will be kept confidential.

Annual Yule party set by Public Works Dept.

The Public Works Department's annual Christmas party will be held on Saturday, Dec. 10, from 7 p.m. to 1 a.m. at the Community Center.

The Batuka, a well-known music group from Palmdale, will provide music for dancing, and door prizes will be awarded throughout the evening.

Dinner, which will be offered buffet style, will feature a choice of hot turkey, ham or roast with all the trimmings. Catering service will be provided by the Chief Petty Officers' Club.

Tickets, which are priced at \$8 per person for all Public Works Department employees and their guests, can be obtained from members of the Code 26 Recreation Committee. They can be purchased no later than Tuesday, Dec. 6.

the East Kern Municipal Court; Sgt. Mike Dunlap, of the California Highway Patrol; Steve Kaupp, China Lake Chief of Police; Cdr. M. J. Cowell, NWC's Staff Judge Advocate; and Lynn Lacey and Ken Burton, two members of the Committee on Responsible Drinking.

Each of these men will give a talk on the problems a driver may face at this particular time of the year, and time will be allowed for questions from the audience.

In addition, an excellent film entitled



Don't get so wrapped up in the holidays that you forget about safety.
In your home, quarters or in your car, check for hazards wherever you are.
NWC personnel with ideas about safety cartoons, slogans or jingles are asked to contact Billie Hise by calling NWC ext. 2367.

"Knowing How To Drive Is Not Enough" has been obtained for this program. It covers some of the errors committed by the average motorist, and how to cope with such problems.

Supervisors on the Center are urged to plan the workload in such a way that it will be possible for their employees to attend either the morning or afternoon session of this program. It also is open to dependents of NWC civilian and military personnel.

Happenings around NWC

A variety of entertainment has been planned for the Alternatives Cocktail Party to be held at the Community Center on Tuesday from 4:45 to 6 p.m.

Film highlights from the movie "Star Wars" will be shown for movie buffs, while those who like group singing may join a song fest in another of the Community Center rooms. A mystery game called "Quack-quack-moo-moo" will provide a third alternative for those who like group social activity.

There will be an open bar policy, with exotic non-alcoholic drinks being served. Light hors d'oeuvres and punch will also be available.

Those planning to attend are asked to call either Carol Corlett at ext. 2574 or Stella Payne at ext. 2648 no later than 4 p.m. today. A \$1.50 fee will be charged to cover costs.

Dances Slated at Shuttle

The Luther Davis Band from Bakersfield will play its version of rock, roll, and soul music for the dancing and listening pleasure of patrons at the Shuttle tonight and tomorrow night from 9 to 1:30 a.m.

Wednesday from 6 to 8 p.m. is spaghetti night at the Shuttle. Patrons will be served all the spaghetti they can eat at a cost of \$1.50 per person.

Aetna Insurance Rep Due

Loni Kivett, Aetna Insurance representative, will be at the Community Center on Thursday, Dec. 8, between the hours of 10:30 a.m. and noon, to answer any questions or otherwise assist employees covered by Aetna health insurance policies.

COM Books Dance Band

The Ed Frezza Trio, a local contemporary rock group, will play for the dancing and listening pleasure of patrons of the Commissioned Officers' Mess tonight from 7:30 to 11:30 in the COM Plaque room.



COURSE GRADUATES — Sixteen NWC employees and two from the Marine Corps Logistics Support Base at Barstow recently completed the DoD Small Purchase Course conducted at the Training Center by personnel from the Naval Regional Procurement Office, Long Beach. The top graduate of the five-day course was Gladis J. Adkins from the NWC Small Purchase Branch. Second and third, respectively were L./Cpl. L. C. Johnson, USMC, of Barstow, and Anne M. Briscoe of the NWC

Stock Control Branch. Graduates pictured are in the front (l. to r.) L./Cpl. Johnson, Anne M. Briscoe, M. D. Gonzales, L. Cpl. K. A. Hall, R. J. Alger, L. J. Van Sickle, J. C. Stewart, AK1 M. N. Ramos, C. E. Cruz, Theodore Carleton and Mary Gilbert. In the back row, (l. to r.), are Leonard Campbell (one of the two instructors), Marianne Latham, M. J. Bowles, AK2 Borneil Plamenco, Donna M. Gonder, Patricia A. Galyardt, S. L. Brown, G. J. Akins, and Lester Journeal, the other instructor.