

### Barbershop singers slate Bicentennial program Saturday

Barbershop singers will present a special Bicentennial program of music tomorrow night at the Burroughs High school lecture center, beginning at 8 o'clock.

The program, hosted by the Indian Wells Chapter of the Society for the Preservation and Encouragement of Barbershop Quartet Singing in America, will be entitled "Salute to America" and include renditions of American music of the last 200 years by choruses, quartets and soloists.

Tickets for the event, priced at \$2.50 each, are available at the Medical Arts Pharmacy, the McCormick & Reynolds Tire Co. and The Music Man in Ridgecrest and from any member of the local SPEBSQSA chapter. They will also be available at the door on the evening of the performance.

Approximately 60 performers will take part in the show, whose proceeds will be used to support the Institute of Logopedics in Wichita, Kan. Visiting barbershop song groups from Bakersfield, Antelope Valley and the Santa Clarita Valley in the Newhall-Saugus area will participate in the program, along with two local quartets, The Medallions and the Next Quartet, and the Indian Wells Valley Chorus.

Among those scheduled to sing a solo number is Rear Admiral R. G. Freeman III, NWC Commander, who will also be the narrator for this "Salute to America."



IN REHEARSAL — Rear Admiral R. G. Freeman III, NWC Commander, (seated at right) and Clay Panlaqui rehearse a number for the Bicentennial program of music to be presented by barbershop singers at the Burroughs High School lecture center tomorrow night at 8 o'clock. Looking on are members of the Indian Wells Valley Chapter of the Society for the Preservation and Encouragement of Barbershop Quartet Singing in America, who will also participate in the program. Panlaqui is director of the show. —Photo by Ron Allen

### Spring Festival opens May 26 at fairgrounds

The 16th annual Spring Festival, sponsored by the Fr. Crowley Council of the Knights of Columbus, will get under way next Wednesday, May 26, at the Desert Empire Fairgrounds in Ridgecrest, and continue over the Memorial Day weekend (through Monday, May 31).

Gates will open at 5 p.m. on Wednesday, Thursday and Friday, while activity will begin at noon on the remaining three days of this yearly fete. Closing times will fluctuate, but the carnival is expected to shut down at around 11 p.m. on Wednesday and Thursday and remain open until midnight on Friday, Saturday and Sunday. There also will be an earlier closing hour on Monday, May 31.

organizations at their booths. The sponsors will cook their traditional Knightburgers, while hot dogs will be sold at the American Legion booth and the Eagles Lodge will be serving chili and tacos.

**Soft Drinks, Refreshments**

In the soft drink and refreshment line, there will be ice cream, hot chocolate and cold sandwiches at the Fleet Reserve booth, popcorn, an orange freeze drink and other soft drinks at a booth manned by members of St. Ann's Parent-Teacher Group, and the Eagles Auxiliary also will have soft drinks for sale.

Pizza will be prepared and soft drinks sold by the Kiwanis Club of Ridgecrest, and the National Association for the Advancement of Colored People will be cooking fried chicken. Other hot food will include corn on the cob with plenty of butter at the Ridgecrest Lions Club booth.

In addition to activity on the midway, booths will be set up in Joshua Hall by candidates bidding for votes in the June Primary Election, by local automobile dealers, the Ridgecrest Chamber of Commerce, the local Navy Recruiter, and the Coast Guard Auxiliary.

Members of the Lions Club of Redondo

Beach will be back at Joshua Hall with a booth offering leather goods for sale, and yet another booth will be set up to advertise the availability of kayak trips on the Kern River.

Special entertainment that has been confirmed (as of press time) and will be presented either in Joshua Hall or at an outdoor stage area will include guitar playing by Joey Pickens and Laura Reymore from 8 to 8:30 p.m. on Thursday, May 27; square dancing by the Jim Dandies square dance club from 8 to 9 p.m., and music and song from 10 to 11 p.m. by The Crash, a local music group, both on Friday, May 28.

Admission to the Spring Festival at the fairgrounds' gate will be 25 cents per person for everyone 12 years of age and over. Prior to opening of the Spring Festival, books of discount tickets which are good for any of the carnival rides on the midway are being sold at various business locations in Ridgecrest, as well as by groups and organizations that are participating with the Knights of Columbus in this year's fete.

### Orchestra, college choir to present concert on Sunday

Five soloists, the Desert Community Orchestra, and the Cerro Coso Community College Choir will combine their musical resources to bring the community a complete concert rendition of Mendelssohn's "Elijah."

The performance will be presented on Sunday, starting at 7:30 p.m., in the Burroughs High School lecture center. Although the orchestra and the choir usually hold their concerts in the college lecture hall, arrangements have been made to hold this performance in a larger hall in order to allow more local area residents an opportunity to have this musical experience.

Tickets, on sale at the door, will cost \$1 for students and \$2 for adults.

Two professional soloists from Los Angeles have been obtained for "Elijah." Richard Wagner, baritone, will sing the part of Elijah, while Tom Oberjat, tenor, will carry a number of parts in that range. Local outstanding singers to be featured as soloists include Karin Jain and Rosemary Matthews, sopranos; and Bonnie Wilson, alto.

## 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

CS - Cinemascope  
STD - Standard Movie Screen  
Regular starting time—7:30 p.m.

Program subject to change without notice — please check marquee.

FRI. 21 MAY

"BIG BAD MAMA" (87 Min.)  
Angie Dickinson, Tom Skerritt  
(Crime Melodrama) Angie Dickinson's Uncle Barney was killed by federal agents. She and her two daughters try to carry on his bootlegging trade and pull off other capers, including the robbery of an oilfield payroll. In the final bloody shootout, Mama is killed. (R)

SAT. 22 MAY

"DOG POUND SHUFFLE" (97 Min.)  
Ron Moody, David Soul  
(Drama) This feature centers around an old veteran of the English Music Hall, who is reduced to being a street entertainer. His most valuable possession is his dog, who he has taught to dance while he plays and sings. One day while chasing a cat his dog gets lost. There is pathos and much humor to be found in the veteran entertainer's efforts to get his dog back. (G)

SUN. 23 MAY

"SHAMPOO" (112 Min.)  
Warren Beatty, Goldie Hawn  
(Comedy-Drama) During the 1968 elections, Beverly Hills hairdresser Jay Robinson (Warren Beatty) accommodates his customers with extracurricular services. This is a bawdy, and frequently outrageous sex farce. The film focuses on Robinson, a disreputable character, who wants a salon of his own while carrying on affairs with the wife and daughter of a potential benefactor. In addition, he has a long-time mistress who finally ditches him to lead a more normal life with another man. Beatty is then left hung-up as his little world falls apart. (R)

MON. 24 MAY

"THE DOVE" (105 Min.)  
Joseph Bottoms, Deborah Raffin  
(Adventure Drama) "The Dove" is the name of a 24-foot sloop which carried a 16-year-old boy on an incredible, five-year, 33,000 mile voyage around the world. (PG)

TUE. 25 MAY

"ISLAND AT THE TOP OF THE WORLD" (94 Min.)  
Donald Sinden, David Hartman  
(Adventure Story) Adventure story about a wealthy Englishman (Donald Sinden), who organizes an Arctic expedition in 1907 to search for his missing son. He and archeologist-anthropologist David Hartman travel north in a dirigible piloted by senior navigator Jacques Marin. They find a lost civilization of Vikings living in an island paradise. (G)

WED. 26 MAY

"THE GREAT WALDO PEPPER" (108 Min.)  
Robert Redford, Bo Svenson  
(Adventure Comedy Drama) A group of barnstorming pilots relive their WWI experiences for Hollywood movies. The dramatic climax shows that these early fliers would rather live out their lives facing danger in the air than confronting everyday problems on the ground. (PG)

THURS. 27 MAY

"LIVE A LITTLE, STEAL A LOT" (102 Min.)  
Robert Conrad, Don Stroud  
(Suspense Drama) This is the pictorialization of an event that was front page news about ten years ago — the heist of the world's largest sapphire, the Star of India, (\$64.35 carats) from the supposedly impregnable New York Museum of Natural History. It is the story of "Murk the Surf" and Allan Kuhn, two Miami beach boys, who join forces for this and other thefts. (PG)

FRI. 28 MAY

"DIRTY MARY, CRAZY LARRY" (93 Min.)  
Peter Fonda, Susan George  
(Action Drama) Two stock-car racing enthusiasts extort \$150,000 from a supermarket so they can buy a first-class racing car. Lawmen in the helicopters pursue the pair through a series of escapades. (PG)

U.S. Government Printing Office: 1976 — 642 / N0410

From: \_\_\_\_\_

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To: \_\_\_\_\_

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### Center's EEO Award given to Floyd Castillo

Floyd R. Castillo, a supervisory general supply officer in the Material Division of the Supply Department, was singled out earlier this week to receive the Naval Weapons Center's Equal Employment Opportunity (EEO) Award.

The presentation of this award, which has occurred on just two previous occasions at NWC, was made Monday morning by Rear Admiral R. G. Freeman III, NWC Commander, during the weekly Commander's meeting.

Among those in attendance at the ceremony, during which Castillo received a plaque and a letter of commendation, were Capt. F. E. McDonald, NWC Director of Supply; William B. Porter, head of the Weapons Department and chairman of the EEO Committee; Alice A. Pastorius, acting deputy EEO officer, and Mrs. Castillo.

The Center's EEO Award was established in the latter part of 1973 as a means of recognizing employees for their significant achievements in providing equal employment opportunity at China Lake. Its purpose is threefold:

First, to demonstrate the value which Center management places upon employees, supervisors, and managers who actively and effectively contribute to EEO.

Second, to give due and proper honor and distinction to those who, recognizing the right of equal opportunity for all, excel in providing this opportunity to others seeking employment or already working for the Federal service.

And, third, to give impetus to the EEO program by publicizing the superior accomplishments of the award recipients and

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### NAF helicopter carries injured man to hospital

Another successful mission, attesting to the value of having such a service available, was logged in this past Monday morning when a search and rescue team from the Naval Air Facility brought an injured fisherman out of a remote area of the Kern River Canyon via helicopter to the Ridgecrest Community Hospital.

The accident victim was Art Delano, 34, of Woodland Hills, Calif., who suffered a possible broken ankle when a minor landslide occurred and he was pinned down by several large rocks.

A fishing companion notified Tulare County deputy sheriffs about the predicament his friend was in, and a message to NAF via the Western Area National Search and Rescue Coordinator set the wheels in motion for the rescue mission that followed.

A UH-1N Huey helicopter, piloted by LCDr. Michael Rij, left the airfield carrying ADJ3 Gordon K. Draper, as crew chief; ADJ3 Robert Martino, as crewman; and two medical corpsmen, HM3 Michael D. Elam and HM Richard J. Schluber.

Enroute to the accident scene — about 16 miles north of Fairview along the Kern River — LCDr. Rij landed and picked up the injured man's companion who directed him to the exact spot where the accident victim was located.

Due to the hazardous terrain and wind conditions, the helicopter couldn't be landed, but LCDr. Rij was able to move 200 yards away and keep the powerful aircraft under control as it hovered 50 ft. above the ground.

ADJ3 Martino and HM3 Elam were then lowered in a hoist and made their way over rough terrain to the injured man, who was given first aid at the scene, strapped into a litter, and carried back to the point where he could be lifted into the helicopter for the trip to the hospital.

Enroute to the local medical facility, where Delano was treated and then released, HM Schluber monitored the injured man's vital signs.



**nwc rocketeer**

Naval Weapons Center  
China Lake  
California

### NWC employee to pilot balloon on scientific flight to chart movement of air pollutants

Jimmie Craig, a Naval Weapons Center employee who has had extensive experience in piloting balloons for scientific missions, has joined a team of researchers who will go aloft in a giant balloon to probe and chart the movement of air pollutants emanating from a major American city.

Da Vinci II, as the helium-filled and heavily-instrumented balloon is called, will be launched near St. Louis, Mo., for a flight that is planned (weather permitting) to last up to 36 hours and could begin as early as Monday or as late as mid-June — again depending upon the weather.

The upcoming flight, second in the Project Da Vinci series, is a joint effort of the Energy Research and Development Administration (ERDA), its Sandia Laboratories, the National Geographic Society, and the National Oceanic and Atmospheric Administration (NOAA). Other major participants are the Environmental Protection Agency (EPA) and the Institute for Storm Research in Houston, Tex.

Direction Determined by Wind

Depending upon the air currents, the balloon and its four-member crew could be carried along with the same general mass of pollutants over Illinois, Indiana, Kentucky or Ohio.

Craig, a program manager in the Swimmer Vehicle Branch of the Weapons Department, was the pilot on the first Da Vinci balloon flight that was launched on Nov. 2, 1974. The Da Vinci I flight lasted 12 hours and covered territory from Las Cruces to Wagon Mound, N.M. (near the Kansas border). This initial flight established the feasibility of using an instrumented, manned balloon as a basic tool



READY FOR NEXT BALLOON FLIGHT — Jimmie Craig (second from right), an NWC employee, will pilot the balloon for the upcoming Da Vinci II flight. He is now back in St. Louis, Mo., involved in scientific meetings and conferences that will precede the launch, which could be as early as Monday. The others who will join in this atmospheric research effort are Dr. Rudolph J. Engelmann (at left), Vera Simons and Otis Imboden.

for research in the lower atmosphere. The same crew members who manned Da Vinci I will be on board the Da Vinci II flight. In addition to Craig, they are Dr. Rudolph J. Engelmann of NOAA, who conceived the total scientific program for the flights; Vera Simons, the co-pilot, who

originated the idea for Project Da Vinci and is an experienced balloonist, artist and inventor; and Otis Imboden, a National Geographic Society photographer. The latter will assist Dr. Engelmann with the scientific equipment and take documentary

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### Dr. Hunter, Research Dept. head, to retire

A long and outstanding career that has combined valuable contributions to the Federal government and the Navy in his role as a department head, as well as in other administrative and scientific posts at China Lake, will come to an end on Friday, June 4, for Dr. Hugh W. Hunter, who will be retiring on that date.

As one of his long-time co-workers summed it up, "Dr. Hunter has always supported research in the best traditions of Dr. L. T. E. Thompson (NOTS' first Technical Director) and Dr. William B. McLean (who succeeded Dr. Thompson as Technical Director). That is, you start with the best people, give them full and complete support to do their job, and you continue that support on the basis of excellent research."

Dr. Hunter has been commended many times for his contribution to the Naval Weapons Center's technical program accomplishments during the nearly 25 years that he has been associated with NWC and its forerunner, the Naval Ordnance Test Station.

Received Thompson Award

In addition, as head of the Research Department for the past 11 years, he has been singled out for his outstanding role in the integration and application of applied and fundamental research to the advancement of ordnance. In the spring of 1971, Dr. Hunter received the L.T.E. Thompson Award — the Center's highest recognition for outstanding individual achievement.

In recalling what has been to him the

most significant facet of the quarter century he devoted to scientific endeavor at China Lake and (for a time) at the NOTS Pasadena Annex, Dr. Hunter stated: "The thing that impressed me most was the substantial amount of freedom enjoyed by technical people to explore things that seemed to them to be worthwhile exploring. This wasn't just in the Research Department, but pretty much across the board," he added.

"Enabling the man who was closest to the work to put his own technical judgments into the act brought about a sense of involvement that has been deeper here than I've ever seen it to be in other government

laboratories. I think it's fair enough to say that as we get older, this is being lost to some extent, and this may be because we are getting older," the Research Department head observed on the eve of his retirement.

He acknowledged that Dr. McLean's ingenuity and know-how which led to development of the Sidewinder missile was a prime example of this, but added that there also have been a whole flock of little things which followed the same pattern. "When Dr. McLean's conviction came along that we could put guidance into a missile, contributions came from all sectors of the technical and scientific community at China Lake," Dr. Hunter recalled.

Change in Emphasis Noted

Since 1965, when he returned to China Lake following nearly 5½ years as vice-president for research for the Research Triangle Institute (RTI) in Durham, N.C., to head the Research Department here, the biggest change has been the increasing emphasis on the relevance of work to the current mission of the Center, Dr. Hunter stated.

Some of the major accomplishments of this past 11 years have shown up as very real technology spin-offs, such as the ability to take advantage of certain natural conditions to create rainfall, the man who is soon to retire as head of the Research Department said.

Also mentioned were the contributions of John Pearson and Dr. John Rinehart to the knowledge about fracture of metals and in

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Dr. Hugh Hunter



SPRING FOLK DANCE FESTIVAL HIGHLIGHTS — The Community Center was the setting last Saturday afternoon and evening for a spring folk dance festival and international food bazaar. Special attractions for the folk dance fete, which was arranged by the Desert Dancers, were the musical entertainment provided by the Pecurka International Folk Band (at top right), and exhibitions of Scottish and Polish dances that were presented (top left and lower left) by members of the Royal Scottish Dance Society and by Polski Iskry (bottom row center and right). A sizable audience came on hand to watch the dancers perform, and some folk dance enthusiasts came from as far away as San Diego to the south to Mammoth Lakes on the north to participate in this event. —Photos by Ron Allen



**FIREMEN MOVE UP PROMOTION LADDER** — Congratulations were extended recently by Fire Chief W. R. Knight (at left) to five of the men in the Fire Division who have been promoted. Shown receiving a certificate denoting his promotion to the post of fire prevention coordinator is Dick Rivers. The others, and their new assignments, are (l.-r.) Ron Bailey, fire captain in charge of Fire Station No. 1; Leroy O'Laughlin and Darrell Johnson, assistant fire chiefs, and Bill Pahl, deputy chief of the NWC Fire Division. —Photo by Ron Allen

## Promotions in top echelon of NWC Fire Division announced

New top echelon assignments were announced last week within the Naval Weapons Center Fire Division by Fire Chief W. R. Knight.

Bill Pahl, a veteran of 30 years' experience as a civilian fire fighter with the Navy, has been promoted to deputy chief. He replaced Leonard Head, who has left China Lake for an assignment as deputy fire chief of the Naval base at Cubi Point on the Island of Luzon in the Philippines.

In addition there are two new assistant fire chiefs. They are Darrell Johnson (now in charge of the first platoon) who moved into the spot vacated by Pahl's promotion, and Leroy O'Laughlin, who commands the second platoon. The latter is filling the vacancy created by the departure of Andy Weiss, who was selected to fill a fire marshal position on the East Coast.

Also promoted was Ronald Bailey, a former lieutenant in the Fire Division, who is now the fire captain in charge of Fire Station No. 1. In addition, Dick Rivers has been appointed to serve as the fire prevention coordinator. He was previously a fire prevention inspector.

Deputy Fire Chief Pahl transferred to NWC this past February after serving for seven years as fire chief of the Naval Amphibious Base at Coronado, Calif. His 30 years in fire prevention work for the Navy have been centered in the San Diego area, where he spent 18 years as a fire boat and fire truck operator at the San Diego Naval Station and five years at NAS Miramar, where he worked his way up from fire fighter to crash crew captain prior to moving to Coronado in 1969.

Assistant Fire Chiefs Johnson and O'Laughlin are both former Navy enlisted men who served as fire fighters at the Naval Air Facility fire station from 1962-65. Upon his discharge from the Navy in 1966,

Johnson joined the civilian fire fighting force at China Lake and has remained with the Fire Division ever since. O'Laughlin joined the NWC Fire Division in 1969.

Both men worked their way up from fire fighter to driver operator to fire lieutenant and fire captain before their most recent promotions to the position of assistant fire chief.

Bailey, the newly-promoted fire captain, had one year of experience as a volunteer fire fighter in Trona before he joined the Fire Division here in 1967. As a fire captain at Station No. 1, he is responsible for directing the operations of two pumper trucks and crews, a rescue truck and the Fire Division ambulance.

Rivers, a former fire prevention inspector at China Lake, succeeds Johnson as fire prevention coordinator at the Naval Weapons Center. He has been employed by the Fire Division at China Lake since July 30, 1967, when he was hired as a firefighter trainee.

Before assuming his present duties as fire prevention coordinator, he served for varying lengths of time as a driver-operator, crew chief and fire prevention inspector.

### Hours changed at Navy check cashing facility

New hours of operation are now in effect at the Navy Exchange check cashing facility.

The facility is open Monday through Friday from 10 a.m. until 1 p.m. and on military paydays from 10 a.m. until 4 p.m. It will be closed on Saturdays.

Checks for up to \$50 may be cashed at the registers when the cash cage is closed. They also may be cashed at any time for \$10 over the amount of a purchase.

## 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 552, Ext. 2069. Ads will run for one week and will close at 4:30 p.m. on the Friday following their appearance in this column, unless a later date is specified in the ad. Employees whose work history has not been brought up to date within the last six months are encouraged to file a Form 171 or 172 in their personnel jacket. Information concerning the Merit Promotion Program and the evaluation methods used in these promotional opportunities may be obtained from your Personnel Management Advisor (Code 454 or 457). Advertising positions in the Promotional Opportunities column does not preclude the use of alternate recruiting sources in filling these positions. As part of the rating process, a supervisory appraisal will be sent to the current supervisor and the most recent previous supervisor of those applicants rated as basically qualified. The Naval Weapons Center is an equal opportunity employer and selection shall be made without discrimination for any nonmerit reason. The minimum qualification requirements for all GS positions are defined in CSC Handbook X-118, while those for all WG, WL and WS positions are defined in CSC Handbook X-118C.

**Xerox Machine Operator, WP-4427-08, JD No. 374, Code 53431** — This position is located in the Documentation Center of the Graphic Arts Division, Technical Information Department. The incumbent will perform all phases of operation and maintenance involving the following equipment: Xerox 840, 600, 3600, 7700, No. 4, and 3100; Bruning 880 (Ozalid); IBM Copier 11; and a 3M VQC and Color Copier. Typical duties include checking toner, adjusting machines for various paper sizes, setting illuminating fuser controls, removing automatic feed devices with hand tools, determining appropriate machine speed, checking ammonia supply, and the cleaning, servicing, and recharging of water purifier system. Job Relevant Criteria: Ability to do the work of the position without more than normal supervision; demonstrated ability to operate and maintain printshop copying equipment; ability to interpret instructions and specifications; knowledge of reprographic materials; ability to communicate efficiently and effectively with customers.

**Motion Picture Film Processor, WG-3913-08, JD No. 110-1, Code 53521** — This position is located in the Motion Picture Laboratory Branch, Photographic Division, Technical Information Department. The incumbent independently operates production type continuous motion picture film processing equipment, either color or black and white film; pre-inspects and makes up film prior to film run (this includes turning on circulation, setting temperature, checking pumps, filters and squeegees, and film thread up); is responsible for performing preventive maintenance on the processing equipment and occasionally upon re-alkali chemicals. Job Relevant Criteria: Ability to do the work of the position without more than normal supervision; demonstrated ability to operate motion film processing machines; knowledge of handling photosensitive materials; ability to perform quality work quickly and safely and to maintain a clean and orderly work area.

**Supervisory Electronics Engineer, GS-855-13/14, PD No. 7435042, Code 3556** — This position is that of Development Branch, Countermeasures Division, Electronic Warfare Department. This branch is responsible for developing subsystems within air defense weapon simulators. The incumbent is responsible for the administration of the branch and its personnel; prepares plans to efficiently and effectively utilize resources necessary to meet the demands of the development tasks; directs the analysis and design of fire control and acquisition radar subsystems and ground support systems; suggests, reviews and approves new designs and concepts; laboratory and on-site test plans; reliability plans, and maintainability aspects of the designs. The incumbent also performs consultant duties for on-center groups in the area of anti-radar guidance, design philosophy, implementation and exploitation of foreign hardware, and circuit design. Job Relevant Criteria: Demonstrated expertise in the analysis and design of radar circuitry; knowledge in the area of radar systems operation and design; demonstrated expertise in various radar subsystems such as antennas, RF networks, radar transmitters and receivers, and digital and analog systems design; ability to supervise effectively and efficiently, and to effectively communicate both orally and in writing. Promotion Potential: GS-13 or 14 level contingent upon high grade level allocation.

**Clerk (Typing), GS-301-3/4, PD No. 7453032, Code 534** — This is an intermittent position located in the Graphic Arts Division of the Technical Information Department. The incumbent prepares correspondence from rough drafts, notes or verbal instructions for the entire division. The incumbent also prepares supply requisitions, work requests and other similar requests requiring an official form; is responsible for records management and information transmitted within the division; and receives visitors and phone calls. Job Relevant Criteria: Ability to type efficiently and accurately, to meet deadlines under pressure, to work well with others; demonstrated ability to tactfully receive visitors and phone calls; knowledge of current records management policies.

**Mail and File Clerk, GS-305-3/4, PD No. 7229041Am, Code 2513** — This position is located in the Administrative Branch, Planning and Administrative Division, Supply Department. Incumbent types letters, route sheets, memoranda, dispatches, stubs for material needed in the branch, department code directory, lists of publications, etc.; maintains files for the department; keeps tickler file on various delegation of authority letters and delegation of authority cards on Supply Department personnel; follows up on route sheets and routes message traffic; makes changes in manuals maintained for department use; and maintains Xerox machine. Job Relevant Criteria: Ability to exercise tact, diplomacy, and discretion in meeting and dealing with a large number of contacts daily; must be a qualified typist; reliability and dependability; ability to work rapidly and accurately. Advancement Potential: GS-5.

File applications for the above with June Adams, Bldg. 34, Rm. 210, Ph. 2371.

**Clerk-Typist, GS-322-3/4, or Personnel Clerk (Typing), GS-203-4/5/6, PD No. 865018-2, Code 65** — Persons that applied for this position 4-23 through 4-29-76 will receive consideration and need not reapply. This position is located in the Personnel Service Division of the Personnel Department. Incumbent performs the following duties for a major department(s): Processes all actions affecting appointments, promotion, change to lower grade, transfers, within-grade and quality step increases, pay adjustments, separations and conversion of appointments; performs non-competitive qualifications ratings, processes classification actions and maintains associated files and records; processes claims for retirement, etc. Job Relevant Criteria: Personnel Clerk (Typing) GS-5/6: Must be a qualified typist, possess the ability to work independently, have a firm regulatory background of current FPM, CMMI, SECNAV instructions, OCMAM instructions, and NWC instructions related to the processing of personnel actions of all types, have experience in non-

competitive qualifications ratings utilizing X-118 and J-Element Standards, and be able to provide procedural information concerning Federal health and life insurance, retirement, and other areas related to personnel. Personnel Clerk (Typing) GS-4, and Clerk-Typing GS-3/4: Must be a qualified typist, have the ability to comprehend and apply regulatory information such as FPM, CMMI, SECNAV instructions, OCMAM instructions, and NWC Instructions and to provide limited procedural information in such areas as health insurance, life insurance, retirement, and other areas related to personnel, and possess the ability to deal tactfully with people. Advancement Potential: GS-6. More than one vacancy may be filled from this advertisement.

**Communication Operator, GS-081-5, PD No. 794011-1, Code 842** — This position is located in the Fire Division of the Safety and Security Department. Major duties include maintaining an alert watch in the dispatcher's office in the event of fire, injury or disaster. The incumbent must understand and keep current on the location of all Fire Division apparatus, equipment and personnel by keeping an accurate log of all movements. The incumbent must know the procedures to take in case of a major emergency, the Gamewell Fire Alarm equipment, running schedule, and be able to assume the duties of driver-operator (which includes knowledge of the operation of all firefighting equipment/apparatus, their placement and capabilities). Job Relevant Criteria: Knowledge of communications equipment, familiarity with terminology and nomenclature associated with communications equipment, (i.e. radio transmitters and receivers, telephones), a general knowledge of the physical layout of NWC including NAF, the ability to write/type efficiently and accurately, and the ability to deal effectively with people at all levels of the organization. This ad will run for two weeks.

**Engineering Technician, GS-802-9/10 or 11, PD No. 7337937, Code 3722** — This position is in the Track Operations Branch. The incumbent assists in test planning, range preparation, conducting of tests and post test clean up; is responsible for ordnance and personnel safety; is designated firing officer; and writes operating procedures and assists contractors in test operations. Job Relevant Criteria: Experience in test and evaluation functions, familiarity with NWC range facilities, knowledge of range/ordnance safety, and the ability to work with project engineers and contractors.

File applications for the above with Tina Lowe, Bldg. 34, Rm. 208, Ph. 2577.

**Artillery Repairer, WG-4465-7/9, JD No. 481, Code 4531 (2 vacancies)** — This position is located in the Ballistics Test Branch of the Quality Assurance Division, Propulsion Development Department. The incumbent performs various operations and duties required for experimental testing of ordnance and ordnance-related items. This includes preparing test setups and handling related hardware for testing of warheads, explosive assemblies, solid and liquid propellant rocket motors, and airbreathing propulsion systems. The incumbent will participate in a Prejourneymen Development Program. Job Relevant Criteria: Ability to do the work of artillery repairer, knowledge of artillery assembly and repair.

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## DIVINE SERVICES

**PROTESTANT**  
 Sunday Worship Service 1015  
 Sunday School - All Ages 0900  
 Wednesday Noon Bible Study 1130  
 Sunday School Classes are held in Chapel Annexes 1, 2, 4 (Dorms 5, 6, 8) located opposite the Center Restaurant. Communion Service first Sunday of the Month.

**ROMAN CATHOLIC**  
 MASS  
 Saturday 1700 fulfills Sunday obligation  
 Sunday 0700 0830 1130

**BLESSED SACRAMENT CHAPEL**  
 MASS  
 Daily except Saturday 1135

**CONFESSIONS**  
 Daily 1115 to 1130  
 Saturday 1530 to 1645  
 Sunday 0800 to 0825

**RELIGIOUS EDUCATION CLASSES**  
 Sunday Pre-school thru 6th grades 1015

Wednesday First thru sixth  
 seventh & eighth 1530  
 (Junior High) 1900

Above classes are held in Chapel Annexes across from Center Restaurant. As announced. Ninth thru 12th grades "In Home" Discussion Groups Monthly Youth Rallies Contact Chaplain's Office for specifics.

**JEWISH SERVICES**  
 EAST WING - ALL FAITH CHAPEL  
 Sabbath Services every Friday 2000

**UNITARIANS**  
 CHAPEL ANNEX 95  
 Services - (Sept.-May) 1930

## C.L. soccer players lose to teams from San Gabriel Valley

The China Lake Soccer Club and its youth team were both defeated by opponents from the San Gabriel Valley last Sunday here at Kelly Field.

In the adult contest, which was decided by a score of 6-1, China Lake outshot the San Gabriel Oldtimers by a wide margin, but came up much too short on the scoreboard. At least a dozen hard shots by the locals sailed just outside or above the net.

The lone score for China Lake came after Scott Paige crashed into the Oldtimers' goal keeper while attempting to blast a shot at goal. The deflected ball was rammed into the net by midfielder Tom Henner. All in all, the local team's defense was not as bad as the six goals scored against it would indicate.

San Gabriel left winger Wilfried Gabriel notched three goals for the visitors.

The San Gabriel youth team defeated its China Lake rivals by a score of 7-2 in a game which the visitors, with their much greater experience, dominated from the outset.

But the China Lake youths did provide hometown fans with plenty of offensive thrills even though they could score only twice. Bobby Bruce repeatedly challenged the San Gabriel defense from his right wing position. He lost a possible breakaway goal when the ball bounced away from him on the rutted turf of Kelly Field.

The China Lake goals were credited to John Fry in the first half and Steve Fry in the second period. The defensive gem of the day was made by David Vigneault of the local team as he came from left fullback to save a ball which had gone by goalie Kirk Cathey and was heading into the opposite side of the net.

After the first half of the youth match ended 3-1, San Gabriel continued to score frequently against the inexperienced China Lake defenders and goalkeeper Adam Halop.

## Wilt's Corner . . .

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Tennis Courts Reserved  
 The tennis courts will be reserved from 8 a.m. to 6 p.m. on Saturday and Sunday for a tournament sponsored by the China Lake Tennis Club.

The tournament will include men's singles, men's doubles, women's singles and mixed doubles competition.

The COM pool will be open from 11 a.m. to 8 p.m. daily and the CPO Club pool will operate daily between the hours of noon and 6 p.m.

The official result that has been entered into the record of this event was 101 miles run.

## Record try fails . . .

(Continued from Page 6)

Each of the girls who did their best in this grueling event will be presented a certificate by the NWC Special Services Division, co-sponsors of this activity, during the Murray Junior High School awards ceremony that will be held shortly before the end of the present semester.

Registration is now being conducted for the sixth annual CPO Club Golden Anchor Golf Tournament to be held at the China Lake Golf Course on the weekend of June 5 and 6.

Entry blanks are available at the CPO Club office for the 36-hole tournament, which will be held on a best-ball-of-partner basis.

All local residents who use the China Lake Golf Course as their home course of record are eligible to play, but only the first 48 teams entered will be accepted.

## Employee in the spotlight

"I quit being a physicist because I didn't like the experimental aspect of the work. I like defining and evaluating problems."

Jim Baird's own words go far in explaining how he, hired off the campus of Portland State University in 1958 with a B.S. degree in physics, has come to be China Lake's war game director and the co-author of a well-known book on Indian petroglyphs.

A member of the Sea Control Studies Branch of the Weapons Planning Group for three years, Jim, as an "operations intelligence specialist," directs tactical war games which, without the use of computers and within the space of a few offices, save the Navy much money it would otherwise spend testing weapons systems and tactics "in the field" — at sea.

A typical sponsor — such as COMPHIBPAC (Commander Amphibious Forces Pacific) or the Third Fleet — comes to Jim's group needing to know how to, for instance, incorporate a prototype weapon into the Fleet. The problem is not to test the weapon system itself, but rather to test or develop the tactics which control its use.

Typical War Game Problems

How does a task group commander employ the ships under his control which are armed with this new weapon? How do the commanders of the ships themselves get into a position to use the weapon — to find the target, get it in the sights, shoot it and evaluate results of an attack? These are the questions war gaming attempts to answer.

The war game, in which opposing sides work in separate rooms, begins with a scenario — the overall description of the political, geographical and military situation which will affect the "battle." Included in the scenario are such things as weather, state of the sea, and the characteristics of all weapons systems involved, in order, according to Jim, "to make the environment as real as possible."

Jim explains that "subjective" factors are being tested, such as how weapons are employed by humans who might not know the position of the enemy. This is in contrast to the game of chess in which the players are able to "rise above the battle" and get

objective information about their opponents' positions by simply looking at the pieces on the board.

During a war game, one side communicates its moves to an umpire who informs the other side of that move only if the other side is in a position to detect it through the given capability of its own equipment. When the decision is made to fire a weapon, the umpire evaluates the results based on weapon characteristics and defensive capabilities.

Fleet Officers Participate

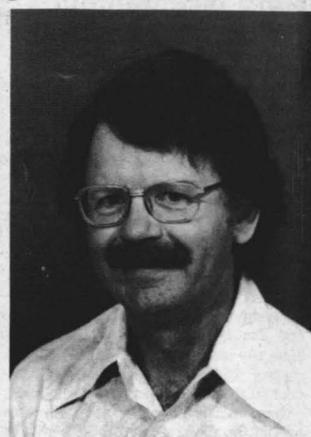
Fleet officers normally join these office exercises to which they contribute their operational expertise and experience and receive, at the same time, valuable training in tactics. "We've never had anyone involved in a game who said he wouldn't want to play in another," says Jim. Two years ago, he adds, his group supplied data to a sponsor who determined from it that 13 errors had been made in the doctrine associated with the control of electronic emissions whose sources included radios, radar, sonar and all other electronic equipment.

Jim has demonstrated tactical gaming to the Koreans and Taiwanese and has just returned from the Naval Postgraduate School at Monterey where he gave a seminar on the subject and helped instructors to develop the capability to add tactical war games to their curriculum.

Worked in Similar Field

Prior to joining Code 127, Jim worked in a similar field for five years in Code 12's Scientific and Technical Intelligence Liaison Office as the liaison between the laboratory and the entire U.S. intelligence community. He studied the numbers, characteristics and capabilities of enemy weapons systems in order to inform NWC project personnel about the exact nature of the threat with which they were dealing.

When Jim came to China Lake in 1958, he began working for the Oceanographic Division of the Research Department as project engineer for Project NOTTY — an evaluation of the sonar, intelligence, and speed capabilities of porpoises. After a nine-



Jim Baird

month hiatus in federal service spent as a physicist for Tektronics, Inc., of Beaverton, Ore., Jim rejoined NWC — as a physicist — working on a variety of one-of-a-kind problems in the Research Department's Techniques and Devices Group. There he stayed for five years and thereafter went to the Scientific and Technical Intelligence Liaison Office.

Jim's penchant for evaluating problems was exactly the thing he needed when he began his study of petroglyphs in the Indian Wells Valley and surrounding areas. He, in conjunction with Ken Pringle, an NWC employee, and Campbell Grant, of Oxnard, co-authored a book entitled "Rock Drawings of the Coso Range" which was published in 1968 under the auspices of the Maturango Museum.

Rock Art Meaning Unknown

"Petroglyphs are a problem because nobody knows what they mean," says Jim, who spent every other weekend "uprange" while researching the mystery for three years. "Our book's hypothesis is that a culture evolved here about 2,000 years ago which then collapsed because of over-hunting, the introduction of the bow (an efficient killer of animals) and the drying up of the land."

"Nobody I know can read the petroglyphs," according to Jim, "and I have a feeling that no one is ever going to be able to read them because one would not only have to understand the language but also the culture. And how is a modern man going to understand the motives and emotions of an ancient Indian?"

Other Archeological Interests

In addition, Jim and a number of other persons have investigated several excavations on the Center, including the Ray Cave site, a rock shelter used by Indians around 400 A.D. In 1968, he and Pringle helped to establish the Mojave-Sierra Archeological Society.

Jim says he has time now just to keep his interest up in archeology because most of his off-the-job efforts these days are devoted to his duties as chairman of the building committee of the new Maturango Museum, which will be constructed in Ridgecrest.

Helping him with committee business is his wife of two years, Eileen, an employee of the Technical Information Department's Distribution Branch. "We're a team, we really like to work together," says Jim. Eileen also enjoys doing macramé, weaving, sewing and working on the Cerro Coso College newspaper.

Finally, Jim has been a self-confessed "vegetarian health nut" since 1973. That's another story, however.

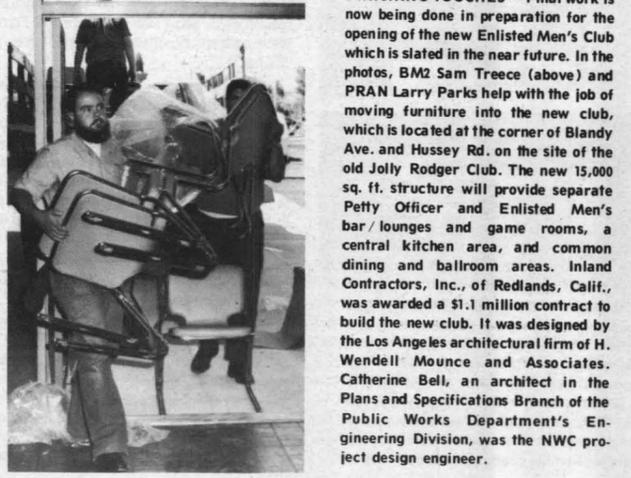
## Dances at Chaparral

Ron Thompson and the Big Mac, a contemporary music group from the local area, will perform at Chaparral Club dances tonight and tomorrow night from 9 until 2 a.m.

In addition, tonight is steak night, served from 6 until 9:30.



FINISHING TOUCHES — Final work is now being done in preparation for the opening of the new Enlisted Men's Club which is slated in the near future. In the photos, BM2 Sam Treece (above) and PRAN Larry Parks help with the job of moving furniture into the new club, which is located at the corner of Blandly Ave. and Hussey Rd. on the site of the old Jolly Rodger Club. The new 15,000 sq. ft. structure will provide separate Petty Officer and Enlisted Men's bar/lounges and game rooms, a central kitchen and game rooms, a common dining and ballroom areas. Inland Contractors, Inc., of Redlands, Calif., was awarded a \$1.1 million contract to build the new club. It was designed by the Los Angeles architectural firm of H. Wendell Mounce and Associates. Catherine Bell, an architect in the Plans and Specifications Branch of the Public Works Department's Engineering Division, was the NWC project design engineer.



## The Rocketeer

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