



WORK REWARDED — Capt. W. B. Haff, NWC Commander, congratulates Evelyn Calloway on receiving a certificate for having worked more than 20 hours in the Thrift Shop sponsored by the Women's Auxiliary of the Commissioned Officers' Mess. She is now a Thrift Shop chairman. Others who received certificates were (l. to r.) Carolyn Payne, 20 hrs.; C. J. Cowell, 100 hrs.; and Gunilla Giegerich, chairman certificate. Mrs. Giegerich served as co-chairman with Mrs. Cowell from June to December 1979, while Mrs. Cowell has served two terms as Thrift Shop chairman. — Photo by PHAN Doug Matthews

### Wide representation drawn by meeting on plans for museum

Representatives of nine federal, state, county and regional agencies met recently at the Maturango Museum for a conference called for the purpose of establishing a regional committee for cooperation and participation in the plans for building a new museum.

For the benefit of visitors in attendance, Bob Berry, president of the museum's board of directors, briefly outlined the history of the Maturango Museum and the plans for a new building that is to be erected on Kern Desert Regional Park property in Ridgecrest.

Progress of the museum's building fund campaign was reported by Florence Green, who noted that local community support has been outstanding — far above average — and that effort is being made to obtain federal funds and private foundation grants.

Citizen input to the museum's board of directors was discussed by Bob Tuck, museum director. "Everyone has had an opportunity to work along with us, and hundreds responded eagerly," he said.

Tuck then introduced Ralph Iredale, architect, who unveiled a preliminary working model of the new Maturango Museum building and provided information on plans for the new museum and its site in the Kern Desert Regional Park.

**MUSEUM BOARD PRAISED**  
Norman Wilson and William Pritchard, officials of the California Department of Parks and Recreation in Sacramento, had words of praise for the way in which the Maturango Museum's board of directors and friends of the museum have worked to encourage support of the museum by educational, civic, business, and governmental organizations within the Indian Wells Valley.

Wilson also complimented the museum for having chosen Howard Schureman as exhibits designer. "You've made an excellent choice," the State Parks and Recreation official commented to Tuck.

Others who expressed their support for the Maturango Museum were Stan Zuber, a representative of the Bureau of Land Management; Virgil J. Olson, a naturalist from the Death Valley National Monument; and S. G. "Vet" Payne, the Naval Weapons Center's Public Information Officer.

Ken Fite, from Cerro Coso Community College, voiced his interest in the educational opportunities and instructional potential of the new museum and its proposed facilities.

Chris Brewer, a technician from the Kern County Museum in Bakersfield, examined the preliminary working model of the new

museum and discussed its design with Iredale. Brewer was agreeably surprised by the amount of citizen input that is evident in the progress that has been made so far, and expressed admiration for the community's support and high level of participation evident in Maturango Museum programs.

The possibilities for sharing of information and materials between the local museum and the one in Bakersfield also was brought out by Brewer.

At the conclusion of the meeting there was overall agreement to meet again later and for the group represented to begin functioning as a Maturango Museum Regional Agency Committee.

### Military Wives Club scholarship awarded to student at Burroughs

Winner of a \$1,000 scholarship presented by the Military Officers' Wives Club is Morlin Hastings, a 17-yr.-old Burroughs High School senior. Hastings has been admitted as a freshman electrical engineering student to the University of California Los Angeles campus, and plans to start classes in the fall quarter.

Eligibility for the scholarship is determined by both merit and need. The scholarship is presented annually to a graduating senior from Burroughs or Mesquite High Schools or a student from Cerro Coso Community College who is transferring to a four-year college or university.

To qualify, the student must be a dependent of either active duty or retired



ACADEMIC SKILLS REWARDED — Mr. and Mrs. Bob Hastings (l.) join their son Morlin as Elaine Adams (at right) present him with a \$1,000 college scholarship from the Military Wives Club. Young Hastings will use the scholarship to study electrical engineering at the University of California at Los Angeles.

### Swap meet planned to raise funds for Navy Relief Society

In an effort to spur on financial support for the annual Navy Relief Society fund drive, a swap meet for the benefit of the naval service's own private, charitable organization has been planned.

This event, arranged by the Naval Relief Society campaign committee, will be held from 11:30 a.m. to 4:30 p.m. on Saturday, June 7, in the parking lot of the Community Center.

Proceeds from the admission price of 25 cents per person will go to the NRS fund, as will money raised from the fee of \$2.50 for the privilege of offering goods for sale at tables set up during the swap meet.

A sale of baked goods also is planned inside the Community Center during the swap meet, and the money raised from it also will be turned over to the Navy Relief fund drive.

Additional information can be obtained by calling Ens. Sharon Beck at NWC ext. 3451.

### China Lake BPW initiates members, installs officers

Five new members were initiated during the annual dinner meeting of the China Lake Business and Professional Women's Club held recently at the Enlisted Mess, and the new slate of officers for the year was installed.

BWP was formed to elevate standards for women in business and the professions, and to extend opportunities to business and professional women through education along lines of industrial, scientific and vocational activities, and to promote a spirit of cooperation among such women.

Officers for the 1980-81 year of the China Lake Chapter are Ida Martin, president; Charlotte Ducaite, first vice president; Ruth Tedrick, second vice president; Mabel Hawley, treasurer; Debra Kock, recording secretary; and Rita Hazelwood, corresponding secretary.

Hastings attended three high schools in the past four years, coming to Burroughs at the start of his senior year, when his father Bob Hastings, who is retired from the Air Force, accepted employment with the Parachute System Department. Despite frequent moves, the young scholar's academic background is outstanding.

He has not been active in extracurricular activities during this past school year, but was active in Boy Scouts and with the church youth council while at El Centro.

Money for the annual scholarship is raised by the Military Wives Club at the Christmas bazaar held by the Women's Auxiliary of the Commissioned Officers' Mess, and by other fundraising events.

**MOVIES**  
ALL AGES ADMITTED  
General Admission  
PG: ALL AGES ADMITTED  
Parental Guidance Suggested  
R: RESTRICTED  
Under 17 requires accompanying Parent or Adult Guardian  
Regular starting time—7 p.m.  
FRI., SAT., MON. MAY 30, 31, JUNE 2  
"KRAMER VS. KRAMER"  
Starring  
Dustin Hoffman and Meryl Streep  
(Drama, rated PG, 103 Min.)  
SUNDAY JUNE 1  
"PARADISE ALLEY"  
Starring  
Sylvester Stallone and Annie Archer  
(Drama, rated PG, 117 min.)  
WEDNESDAY JUNE 4  
"ARABIAN ADVENTURE"  
Starring  
Christopher Lee and Milo O'Shea  
(Fantasy adventure, rated G, 99 min.)  
FRIDAY JUNE 6  
"PROMISES IN THE DARK"  
Starring  
Marsha Mason and Ned Beatty  
(Drama, rated PG, 118 min.)  
SATURDAY JUNE 7  
"ALIEN"  
Starring  
Tom Skerrit and Sigourney Weaver  
(Sci-Fi Horror, rated R, 117 Min.)



**Commissioned Officers' Mess**  
The Commissioned Officers' Mess invites all swimming pool members to a free cookout at poolside on Saturday from 6 to 9 p.m.

Hot dogs, hamburgers, soft drinks, and cold beer will be on the house to everyone in attendance in celebration of the COM pool opening.

Starting Monday, for those who enjoy outdoor dining, the lanai room will be open for lunch on weekdays, from 11 a.m. until 1 p.m. Due to limited seating, however, only four persons to a table will be accommodated; and no reservations will be accepted.

Two special evenings of dining are on tap at the COM next week. On Tuesday, the chef will add chicken cacciatore, at \$3.85 per person, to the already popular Italian Night cuisine.

And on Thursday, June 5, the COM will host a steak cookout on the patio, featuring teriyaki steak.

Dinner on both evenings will be served from 5 to 9 o'clock.

### Astronomy gp. to hear talk about meteorites

Carroll Evans will be the featured speaker at the June meeting of the China Lake Astronomical Society, which will be held on Monday at 7:30 p.m. at the Society's hut, 401-A McIntire St.

Evans will describe what meteors and meteorites are; give a definition of each, and discuss their origins and characteristics. He will also show some samples that were collected at the Barringer Meteor Crater, Canyon Diablo, Ariz.

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From: \_\_\_\_\_  
To: \_\_\_\_\_  
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### Navy helicopter used to locate missing glider

The serenity of an otherwise nearly uneventful Memorial Day holiday weekend in the local area was broken Monday night by a Kern County Sheriff's Department request for a Navy search and rescue helicopter.

The helicopter was needed in an effort to locate a glider that reportedly had gone down east of Pearsonville, which is located on Highway 395 near the Kern-Inyo County line.

LCdr. Byron Dieckman, who was on standby for search and rescue missions, was at the controls of the Naval Weapons Center's UH-1N Huey utility helicopter, which took off shortly before 10:30 p.m. Monday from Armitage Airfield to assist in the search for the glider.

Others on board the helicopter were the co-pilot, LCdr. Emmett Lancaster, crewmen AD2 Israel Morales and AT3 Richard Jones, as well as China Lake policemen Dale Polley and Virgil Kennedy.

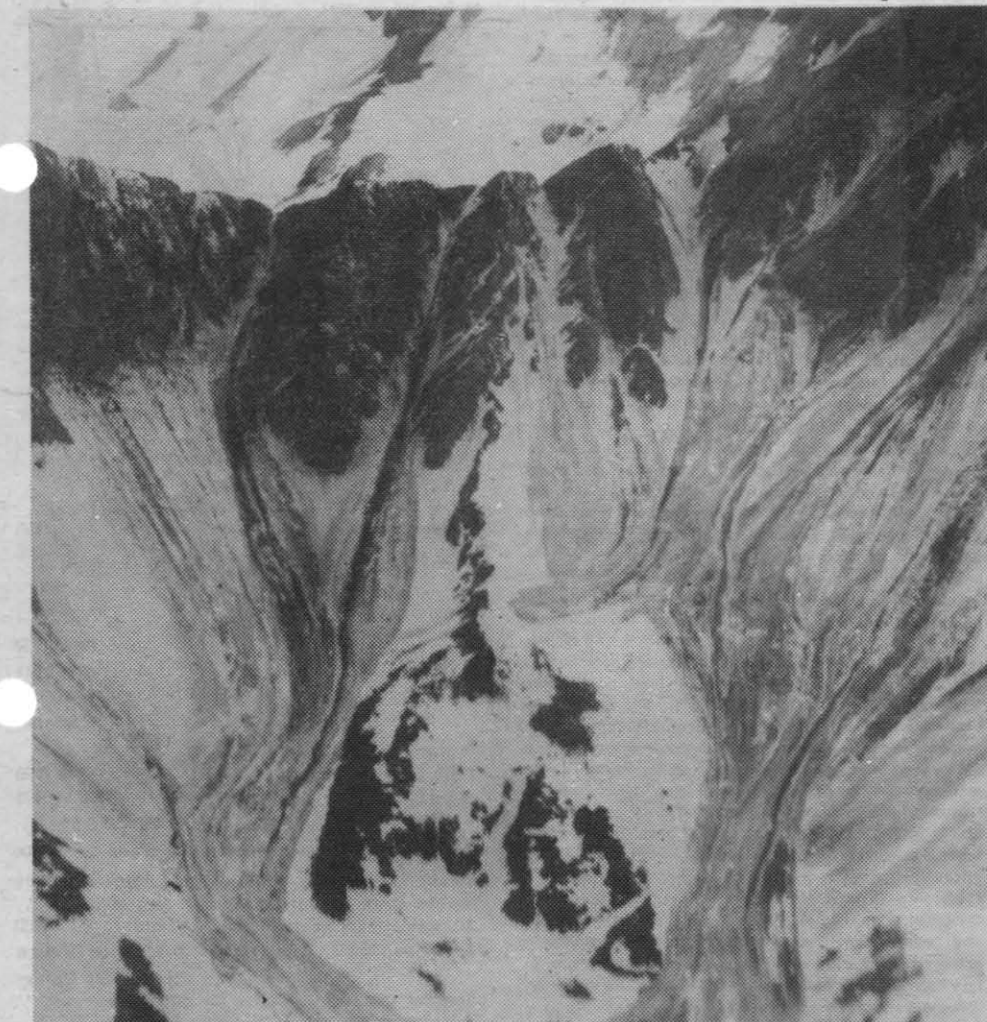
With the help of searchlights on board the helicopter, the missing glider was located 30 min. later approximately 1 1/2 miles east of Little Lake in an area close to but not within the boundaries of NWC.

The brief search was facilitated by radio contact between the downed glider pilot and the Armitage Airfield control tower, whose personnel, once it was known that help was needed to locate a glider believed to be missing in the local area, had switched to the international radio frequency used for communication by glider pilots.

The glider pilot, Alasdair Duncan G. Cumming, a Hughes Aircraft Co. employee from Agoura, Calif., was found to be all right, but he had a long wait by his powerless craft from the time he landed at 3:45 p.m. Monday until he was found by those on board the Navy helicopter.

Information on the location of the glider was radioed to Cumming's chase crew, who drove their truck and trailer to the site, folded up the glider, and drove off.

The glider chase crew had, earlier in the afternoon, been within a half mile of the downed craft but couldn't see it because of the uneven terrain near the place where the landing had been made. Fortunately, the spot chosen for the landing was a smooth one and there was no damage to the powerless aircraft or injury to the pilot.



ON SHAKY GROUND — Landslides such as this one that took place in the Sierra west of Lake Crowley Sunday are still occurring as the ROCKETEER goes to press. Hikers, backpackers, and climbers are being advised to stay clear of the back trails in the Central Sierra until Forest Service personnel have had an opportunity to check such trails. — Photo by PH2 Tony Garcia



At LNG spill facility

### Tests held to determine what happens when liquified natural gas is set afire

Navy, Coast Guard, and civilian harbor-masters have shared a nightmare: that volatile substances like liquified natural gas (LNG) or liquified petroleum gas (LPG) will spill into a harbor or sea lane, disperse, and ignite into either a catastrophic fire or



SHUTOFFS — Capt. Haff and Dr. Lind examine valves in the 10-in. pipe through which LNG is spilled for tests. The new LNG Spill facility has been constructed with all feasible safety factors because of the extremely hazardous materials being tested.

an equally catastrophic explosion over a populated area.

Research now in progress at the Naval Weapons Center may dramatically reduce these concerns.

At the new million dollar LNG spill facility at CT-6, Dr. C. D. Lind and other personnel from the Conventional Weapons Division of the Ordnance Systems Department and Range Department personnel are spilling LNG and torching the resultant vapor cloud to determine what happens during such a fire and why it happens.

That knowledge can be used not only to establish safety standards but also to learn what fire fighting methods would be most effective in controlling damage.

The new facility at CT-6 consists of a bunker with a TV monitor on top, an instrumentation trailer from which spills are controlled, an insulated structure containing a 13,000-gallon vacuum-jacketed storage tank (like a giant thermos bottle) to hold materials at temperatures as low as minus 190 degrees Celsius, a 10-in. pipe (widening to 12 in. in its last 20 ft.) from the tank to a spill pond, and the pond onto which the liquid being tested is spilled.

LNG and other liquids stored at extremely low temperatures must be spilled onto water to ensure rapid boiling because they would freeze ground and not boil rapidly; with water, the surface creates a boiling reaction and disperses the material being tested into the air.

At this new facility 10,000 gallons of LNG can be spilled in 80 seconds, and the resulting fire (when the LNG is torched with emplaced flares) lasts about 2 minutes. (During these 2 minutes the flame radiates energy at the rate of nearly 2,000 megawatts of energy, or roughly about four times the energy output of the San Onofre nuclear (Continued on Page 5)



FRIGID FUEL — Firing Officer Les Hunter closes the valves in a fuel line through which LNG is being transferred from a tanker truck to the LNG spill facility. The temperature of LNG is demonstrated by the thick ice showing white beneath the valve; this off-loading took place during ambient air temperatures of nearly 90 degrees.

### Long holiday weekend in Mammoth Lakes area is marred by earthquakes on Sunday, Monday

Naval Weapons Center personnel who were enjoying their 3-day weekend camping, fishing, or skiing in the Mammoth Lakes-Crowley area had an unexpected thrill Sunday when two earthquakes registering more than 6 on the Richter scale hit the region.

While NWC and CalTech seismographs in the Earth and Planetary Sciences building at China Lake indicated that the earth actually moved for between 9 and 10 minutes during the first quake at 9:34 a.m., Centerites who were at Mammoth estimated that they felt the shock for about 15 seconds. C. B. Knox, who was on Crowley at the time, said that the lake felt like a giant fishbowl sloshing. (And, he added, the fish promptly stopped biting.)

#### UTILITY LINES DAMAGED

No Center personnel were among those reported injured by falling rocks, landslides or mudslides. Buildings in that area withstood the quakes relatively well because they are built to stringent code due to heavy snowloads, but stores suffered losses when items on shelves tumbled to the floor. Power lines were downed, and some water mains broken.

Extensive landslides and rock slides were readily visible from the air when Glen Roquemore, LCdr. Jack Paschall, and PH2 Tony Garcia flew over the area Sunday afternoon in an NWC U-9 aircraft piloted by LCdr. Paschall.

Roquemore, a geologist in the Earth and Planetary Sciences Division of the Research Department, was looking to see if any fissures had opened in the earth. (None were visible from the air. He will join

Malcolm Clark from the U.S. Geological Survey's Menlo Park facility in a ground study of the shaken area this week.) Information gathered from these quakes will be helpful in seismological studies of the local area.

Preliminary studies of the earthquakes Sunday indicate that the epicenters were about 4 miles west of Lake Crowley. They are taking place on the Sierra Nevada frontal fault, a broad zone comprising hundreds of smaller segmented faults.

(The 1872 Owens Valley earthquake centered on a straight line fault between Lone Pine and Big Pine; this fault is also part of the same frontal system.)

Despite the magnitude and amplitude of the earthquakes taking place less than 200 miles north of China Lake, relatively few local people felt the shocks because the soil in the Indian Wells Valley is alluvial and the shock waves are refracted by a change in earth structure. The shocks were felt from Sacramento to San Diego, however, where the granitic Sierra structure carried them.

#### MILES OF TRAILS CLOSED

Hikers and campers are being advised to stay clear of areas where rock, mud or landslides could be triggered by aftershocks, and miles of trails have been closed temporarily by the Forest and Park Services until they can be inspected.

Some seismologists, notably Professor Alan Ryall, a geophysicist at the University of Nevada in Reno, have pointed out that the pattern of earthquakes in the Mammoth area indicates the possibility of a much larger temblor occurring shortly. The (Continued on Page 3)



### Employee service awards

The following Naval Weapons Center employees have received Federal service or NWC length-of-service awards:



### 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. 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 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 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.

Clerk, GS-303.3, PD No. 8004013N, Code 063 — This is a 36 hour per week part-time clerical position in the Projects Office of the Test and Evaluation Directorate. The primary duty of this position is to provide clerical support to the operation of the TCN system. TCN is a financial management information system used for all air, ground and track testing performed in the Test and Evaluation Directorate. The incumbent provides clerical typing, filing and distribution support to the administrative officer, Code 063; collects daily charge sheets from project engineers for each test listed on the Daily Test Schedule; codes the charge on a computer form for entering data into the Univac 1110 via a remote data entry system; and reviews the computer output for obvious errors or computer problems. Job Relevant Criteria: Ability to type; ability to work well with others; knowledge of standard clerical procedures. Promotion potential to GS-4. File applications for the above with Bonnie Owens, Bldg. 34, Rm. 204, Ph. 2577.

Lead Accounting Technician, GS-525-6, PD No. 8008021, Code 0621 — This position is that of work leader in the Accounting Unit of the Commercial Order Section, Cost Accounting Branch, Accounting and Disbursing Division of the Office of Finance and Management. Lead duties will involve assuring that the work of the unit is carried out by distributing and balancing the workload among unit employees and assuring that assignments are accomplished in a timely manner. The function of the unit is to control and maintain cost accounting records and subsidiary ledgers for all NWC costs pertaining to Purchase Fund Purchases. Job Relevant Criteria: Knowledge of accounting principles; ability to organize work; ability to work independently; ability to get along with other people; ability to lead. A supplemental experience statement will be required and may be picked up at the location listed below. Lead Voucher Examiner, GS-540-4, PD No. 8008022, Code 0621 — This position is that of a work leader in the Voucher Examining Unit of the Commercial Order Section, Cost Accounting Branch, Accounting and Disbursing Division, Office of Finance and Management. Incumbent will be responsible for the section supervisor for assuring that the duties of the unit are carried out by distributing and balancing workload among unit employees and assuring that assignments are accomplished in a timely manner. The functions of the unit are to establish, maintain and

### Reassignment opportunities

This column will be used to fill only engineering and scientific positions through reassignment and through promotion to positions with equal promotion potential. For this reason, the Reassignment Opportunity Announcements are separate from the Promotion Opportunities column in the Rocketeer. Applications will only be accepted from employees currently in scientific or engineering positions. Applications will be accepted until the date stated in the announcement. Employees whose work history has not been brought up to date are encouraged to file an SF-171 or 172. All applicants must meet minimum qualification requirements established by the Office of Personnel Management. Information concerning the recruitment and placement program and the evaluation methods used in these reassignment opportunities may be obtained from Personnel Management Advisors (Code 096 or 097). Applications should be filed with the person whose name is listed in the announcement. The Naval Weapons Center is an Equal Opportunity Employer.

Supervisory Aerospace Engineer, GS-861-12, PD No. 794025E, Code 4122 — As Section Head of the Maintenance Engineering Unit in the Parachute Systems Department's Product Support Branch, the incumbent supervises and performs the evaluation of service deficiencies and takes necessary action to implement those solutions which fall in the maintenance engineering category. The incumbent also conducts continuing investigations utilizing service data from reporting media to assure engineering, logistical, and cost improvements. File applications for the above with Bonnie Owens, Bldg. 34, Rm. 204, Ph. 2577.



Table with 4 columns: Team, Standings as of May 23, Won, Lost. Lists various sports teams and their records.

### To reduce number of accidents, police step up law enforcement

In the first four months of 1980 there have been 41 reported vehicle accidents on the Naval Weapons Center. Seventeen people were injured in those accidents. Over 50 percent of the collisions were directly caused by one or more of the involved parties violating a traffic law. While the total number of vehicle accidents during the first four months of this year is one less than that reported for the same period in 1979, the big difference is that there were only three vehicle accidents involving injuries last year compared to the injuries to 17 persons in 1980. Recent traffic enforcement efforts by the China Lake Police Division on Sandquist Road provided alarming results. On the afternoon of May 5, 16 drivers were issued traffic citations for excessive speed. The posted speed limit on Sandquist Rd. is 45 miles per hour, but violations were cited for speeds from 55 to 80 miles per hour. The China Lake Police employ radar speed-monitoring systems to aid in traffic enforcement. The system operates on a radio frequency that can accurately determine the speed of vehicles approaching or moving away. The radar unit is calibrated by the operator at the beginning and end of each shift to ensure the system is operating accurately. The radar systems have proven to be an invaluable tool for identifying speed violations. For the safety of all Center residents and employees, the Police Division will continue to vigorously enforce all traffic rules and regulations on China Lake. Traffic speed will be monitored by radar, especially during peak traffic flow times and in the increased speed zones such as Sandquist and Knox Rds., the CLPL Rd., and the Randsburg Wash access road.

### Meeting set June 11 for coordinators in Savings Bond drive

In preparation for the annual U.S. Savings Bond Campaign on the Naval Weapons Center, a meeting of department coordinators and assistants will be held on Wednesday, June 11, starting at 10:30 a.m. in the Community Center. Featured speaker at this meeting will be Jay Eby, area representative for the U. S. Savings Bond Division of the Department of Treasury in Los Angeles. A short film will be shown featuring the cast of the Shirley Jones television show.

The Savings Bond campaign at NWC will begin on June 16 and continue through June 27. During this period, all civilian and military employees will be provided the opportunity to join the payroll savings plan or to increase their present savings bond allotment. Some major changes were introduced into the Savings Bond Program this year with the cancellation of the Series E Bond. The Series EE Bond replaces the E Bond and returns a higher rate of interest when held to maturity. All interested employees who want to learn more about the Savings Bond program are invited to attend the meeting on June 11.

Residents in Site B Capehart housing are asked not to water their lawns either Monday night or Tuesday morning prior to the sweeper's regular Tuesday visit; Hill area residents (Site A Capeharts, JOQ, Hill Duplex, and MOQ) should restrict their watering on Wednesday evenings or Thursday mornings for the same reason. To conserve water (and the electricity needed to pump that water) residents are asked to water either in the early morning or late evening. Water should be left on long enough to soak the ground, but not so long that excess water will run into the street. How long or often to water depends somewhat on the condition of the soil, ambient air temperatures, and the kind of sprinkler system used. A rule of thumb indicates that watering a patch of lawn with a bubbler or small spray head for 20 min. is about the same as watering a large section for an hour with a rainbird sprinkler. Even at maximum outside temperatures lawns can generally be kept green by watering twice to three times weekly. Conservative irrigation will help save water and energy, both of which are limited resources.

### Softball results

(Continued from Page 6) one game, won it by a score of 8-7 over the Bamboo Babes.

In this latter contest, the Bamboo Babes put together a 4-run rally that tied the score at 7-7 in the top half of the sixth inning, only to let victory slip from their grasp as they gave up a single run to the Rowdies during their turn at bat in the sixth. Jo Maschoff banged out a home run and two singles to lead the Rowdies in the hitting department. Scores of other games played last week in the Women's Slow Pitch Division were Castillo's Welding 11, CSC 10, and Kelly's Girls 35, NWC Stingers 9.

Table with 4 columns: Team, Standings as of May 23, Won, Lost. Lists various sports teams and their records.

BASED ON HINDU WORD The Navy word "chit," meaning a receipt or voucher, came into use on the Navy's Asiatic Station before World War II and is derived from the Hindu word chitti.



SERVICE REWARDED — Cdr. John Allen, NWC Senior Chaplain, presents awards to Navy Relief Society volunteer workers at the Navy Relief Award luncheon held recently at Clancey's Claim Co. Receiving an award for 2,000 volunteer hours spent in service to NRS is Deanna Allee, chairman of volunteers. Others whose service was noted are (l. to r.) Darlene Killoran, receptionist, 100 hours; Tina Fellin, receptionist, 100 hours; Janet Warner, interviewer, 100 hours; and Kristen Nash, interviewer, 300 hours. — Photo by PHAN Doug Matthews

### Increased use of bicycles, mopeds calls for added vigilance on part of motorists

Keep thinking bicycle and moped safety, the NWC Safety and Security Department reminds all Centerites. More and more persons are out on the roads and streets on bicycles and mopeds these days because of the high cost of gasoline. Riders are reminded that the traffic laws are designed for everyone's safety and ease of transportation, and the bike rider is equally responsible for good, safe, cooperative use of the roads. Some bike riders have been seen rolling through stop signs. Obviously, momentum is lost when the bicycle rider has to stop for a stop sign, but the rules of the road state a bicycle is classed as a vehicle, and all vehicles must stop at stop signs. Doing so gains the respect of motorists for bicycle riders when they see that riders obey the laws too. Moped riders are urged to be considerate of bicycle riders traveling in bicycle lanes when the moped rider also is using these special lanes. Moped riders who can safely keep up with the flow of traffic should try to ride outside the bicycle lane when there are several slower bicycle riders using the lane, or stay at the slower speed that the bicycles are traveling. Cooperative, considerate and lawful use of the streets by all vehicle operators is the proper approach to safety. Take care and take time to insure safety for all whether you are driving or riding. Keep thinking about bicycle safety.

Three Navy F-4 Phantom jet fighters averaged 870 miles an hour to set a new Los Angeles to New York speed record of two hours, 47 minutes on May 24, 1961.

### Promotional Opportunities

(Continued from Page 2) willings to support Federal EEO policies and goals. Supervisory Police Officer, GS-083-7, PD No. 7184012N, Code 2413 — This is a reassignment of a position which appeared on May 16, 1980. All previous applicants must reapply. This is a temporary position not to exceed one year. Position is within the NWC Police Division, Safety and Security Dept. Primary function is that of first line supervisor in the Patrol Branch responsible for one of three watches (shifts). Incumbent will primarily perform duties in the field, supervising the actions and performance of patrolmen; will ensure that all investigations handled by patrol units are properly conducted. Incumbent will, while on patrol, act as a patrol unit and will be alert to law violators, evidence of the occurrence of a crime or conditions which would adversely affect the welfare of the Center. Job Relevant Criteria: Knowledge of all aspects of police work, particularly patrol procedures and criminal investigations; knowledge of state and federal criminal law; ability to motivate and supervise; ability to communicate with others orally and in writing; to prepare and concisely report; willingness to support Federal EEO policies and goals. File applications for the above with Linda Long, Bldg. 34, Rm. 210, Ph. 2032.

Supervisory General Engineer/Supervisory Engineering Technician, GS-801/802-14, PD No. 803604E, Code 3462 — This position is located in the Conventional Weapons Production Office, Fleet Engineering Division, Engineering Department, and is the head of the office. Incumbent supervises approximately 14 to 16 engineers and technicians through subordinate section heads. The primary functions of the office are to (1) provide weapon system engineering support to the Fleet, Cognizant Field Activities, the Systems Commands, and other DoD activities, and to perform as technical managers for the Center on assigned weapons programs, which are scheduled for production, in production, or in service-use; and (2) provide support in development of plans for modernization/expansion designs of government-owned production facilities/equipment and establishing equipment technical data packages. Job Relevant Criteria: Demonstrated supervisory/managerial abilities over diverse technical working groups, with emphasis on in-depth knowledge of Center organization, requirements, and operations; demonstrated ability to effectively work within the policies and procedures as defined in the NAVWPNCEN 3900/5400 Instructions series. Demonstrated ability to manage weapons systems, with emphasis on high volume production, and production support of bombs, rockets, launchers, warheads, ammunition, rocket-assisted projectiles and related components; demonstrated knowledge, skills and ability in the preparation, administration of production and facility contracts. Demonstrated ability to effectively communicate ideas in oral and written form; liaison skills and abilities with all levels of Commands/Offices. Demonstrated support of Federal EEO policies and goals. File applications for the above with Marge Stanton, Bldg. 34, Rm. 206, Ph. 2925.

Administrative Officer, GS-341-7/9/11, PD No. 7435179E, Code 352 — Position serves as administrative officer for the RF Development Division of the Electronic Warfare Department. As such the incumbent will be responsible for administrative management of the division including financial management, personnel management and space, equipment, and facilities planning. Job Relevant Criteria: Knowledge of the Center's financial management and budgeting program; knowledge of personnel practices and procedures; knowledge and ability to work with the Center's Public Works Dept. or maintenance of facilities; ability to communicate both orally and in writing. File applications for the above with Janet Thomas, Bldg. 34, Rm. 204, Ph. 3118.

Maintenance Foreman, WS-4701-10, JD No. 8024051E, Code 26424 — This position is at the first full supervisory level in the Maintenance-Utilities Division, Electrical and HVAC Branch, HVAC Shop, Public Works Department. The incumbent plans sequence of operations and work steps of employees who repair, maintain and install refrigeration and air conditioning equipment. Incumbent interprets blueprints and instructions as required. Works from oral instructions or written instructions. Plans distribution of workload among subordinates and assigns work to employees. Must be familiar with the theory, practice, techniques and work methods of trades supervised; equipment, repair and maintenance services, etc. through appropriate channels, performs other miscellaneous clerical duties as assigned. Job Relevant Criteria: Ability to type accurately and efficiently; ability to get along with others in the work group; ability to meet deadlines under pressure; knowledge of Navy correspondence and local filing procedures. File applications for the above with Kitty Berry, Bldg. 34, Rm. 206, Ph. 2723.

### Procedure to apply for jobs to change

A change will be going into effect on June 13 regarding the mechanics of applying for jobs advertised in the Rocketeer.

Beginning in mid-June, employees wishing to be considered for merit promotions to fill vacancies listed in the Promotional Opportunities column or the Reassignment Opportunities column must submit a Standard Form 171 (Qualifications Statement) for each job being applied for.

Any questions regarding the new procedure or requests for assistance in filling out SF 171 should be referred by employees to the Personnel Management Advisor for their code.

### Metal Trades Council

The Indian Wells Valley Metal Trades Council will hold its regular monthly meeting on Thursday, June 5, at 65-B Halsey St., at 7:30 p.m.

The council is the representative of a unit composed of the Center's nonsupervisory, ungraded civilian employees who are located at China Lake, Calif.

### Training opportunities

The Navy Scientist Training and Exchange Program (NSTEP) is designed to provide long term training opportunities for NWC employees grades GS-9 and higher. These training assignments are located in the Washington, D.C. area. The program is used for cross training and development of key personnel at the middle, senior and executive levels. The training varies from 6 months to 2 years depending on the assignment. The employee selected will go on the training assignment at the current grade level and position description. Applicants must be at the grade level listed in the notice. For information or to apply for the below listed training opportunities, contact Len Gulick, Code 035, Ext. 3792.

Position: Visiting Professor, U.S. Naval Academy, Annapolis, Md., GS-15 and all professional series. Developmental Opportunity: The Chief of Naval Material (MAT 08L) and the Superintendent, U. S. Naval Academy, have established a number of Research Chairs at the Naval Academy. These chairs will provide an opportunity for outstanding scientists and engineers from the Navy laboratory community to conduct research and stimulate officer/student development. Applicants selected as a result of this announcement will be designated "Visiting Professor." In addition to teaching three to six semester hours, selectees shall conduct individual research and serve as faculty advisors to midshipmen involved in individual research projects. Duties to be performed: The Naval Academy's primary academic mission is the education of future leaders of the Navy and Marine Corps. It is vital that these future leaders, in their Naval Academy curriculum and associated research projects, understand the role of the R&D community and the nature of R&D programs in the development of strategic and tactical concepts for the future. Specific duties of NSTEP participants in support of the primary academic mission shall include but not be limited to the following: to conduct research; to teach courses; to provide insights and continuity of R&D inputs to the Naval Academy's overall educational program through in-house strategic and tactical research (midshipmen and faculty projects); to bring the latest technological developments into the professional development program through interaction with faculty and midshipmen; to serve on academic committees; to serve as a direct point of contact between the Naval Academy and the individual's parent command on matters related to Navy R&D community support in the areas of faculty and student briefings, equipment sharing, research project coordination, and faculty and student visits; and serve in an advisory role relative to laboratory functions, the military/civilian relationships in the laboratory community, and how the Navy Laboratory System supports the Navy's mission. Research Areas: Research assignments are available in but not limited to the following areas: Marine Science — to encourage translation of the rapidly growing knowledge of oceanography and related sciences for broader Navy utilization; Applied Oceanography — to conduct research in the areas of oceanography applied to Fleet operational problems; Electrical Engineering — to carry on research in the areas of electromagnetics and antennas, radar, electronic warfare, digital systems, signal processing; communications systems, and control systems; Applied Systems Analysis — to conduct research in the areas of weapons systems analysis, military manpower and personnel analysis, surface warfare, antisubmarine warfare, underwater acoustics, strategic weapons, and arms control; logistics and weapon system acquisition, and command, control and communications; Mechanical Engineering — to contribute to ongoing research in the areas of heat transfer, marine vehicle design, solid mechanics, and materials science; Aeronautics — to conduct research related to turbomachinery, air breathing propulsion, and the exploration of new energy conversion ideas; Underwater Acoustics — to investigate ocean acoustics, high-intensity acoustic phenomena, acoustics of ocean sediments, acoustic range studies, and propagation in time varying wave guides; and Applied Physics — to investigate non-acoustic methods of remote sensing in the marine environment. Potential areas of interest are geomagnetic effects, hydrodynamic phenomenon, and oceanic electromagnetic effects. Qualifications Required: PhD desired, but a Master's Degree is required; a minimum of one year Navy R&D experience in engineering, science, etc.; recognized scientific stature; ability to interact effectively with interdisciplinary groups; ability to participate in and/or supervise multi-discipline projects; and ability to express himself in oral and written communications. Factors to be Used in Evaluating Applicants: formal education background; professional experience in engineering, science, etc.; research experience; scientific publications; membership in scientific and educational societies; documented scientific achievements; and results of personal or telephone interviews. Documentation required that must be submitted through your organization's NSTEP coordinator includes: (1) Updated and currently signed SF-171 (2 copies required). The SF-171 should substantiate special items mentioned in "Qualifications" and "Factors to be Used in Evaluating Applicants." (2) A brief description of the applicant's proposed research project. (3) Any statement the applicant might choose to submit relative to course teaching preferences.

### The Rocketeer

Official Weekly Publication Naval Weapons Center China Lake, California Captain W. B. Haft NWC Commander R. M. Hillier Technical Director S. G. Payne Public Affairs Officer Don R. Yockey Editor Mickey Strang Associate Editor Beverly Becksvort Editorial Assistant PH2 Tony Garcia PHAN Doug Matthews Staff Photographers



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### Tigers upset Yanks in Major Division Little League game

An upset win by the Tigers over the Yankees highlighted last week's play in the Major Division of the China Lake Little League.

The Tigers, who trail in the division standings with a record of 2 wins and 6 losses, surprised the Yankees by handing them a 12-9 loss.

The Tigers were led at bat by Kyle Blecha, who hit two singles and scored 2 runs, while a teammate, Curtis Peoples, got on base four times on walks and tallied 3 runs. Heavy hitter in a losing cause for the Yankees was John Andrews, who came through with a double, two singles and scored 1 run.

The Yankees' loss to the Tigers left them tied with the Dodgers for first place at the halfway point in the Major Division season, and set the stage for a playoff game to determine the first half champion that will be played tomorrow, starting at 10 a.m. at Little League diamond No. 4.

In one other Major Division contest last week, the Yankees pounded out a 10-1 win over the Wildcats.

In China Lake Little League Minor Division competition, the Inyokern Cardinals clinched the first half championship by edging the Pirates 8-7. This win by the Cardinals gave them a record of 6 wins and 1 loss at the midway point in the season, compared to 3 wins, 3 losses and a tie for the Pirates, who are in second place.

One other Minor Division game was played last week, and it resulted in a 14-10 win by the White Sox over the Royals.

The Cubs, first-half champions of the Farm Division, kept their undefeated record intact last week by posting lopsided wins over the Padres and Reds by scores of 24-7 and 20-10, respectively. Results of two other games played in the Farm Division were Angels 26, Reds 12, and Angels 26, Padres 1.

The Rangers, who have clinched the first-half title in the T-Ball Division by winning six straight games, won three games last week—two by narrow scores of 18-17 and 15-14 over the Astros and Twins, respectively, and another over the Indians by a final tally of 27-13. Results of other games played in the T-Ball Division were Indians 27, Expos 16; Braves 33, Astros, 30; and Twins 16, Astros 7.

### Hunter safety class slated next weekend

Next Tuesday, June 3, is the last day to register for a hunter safety course that will be offered by the Sierra Desert Gun Club.

This two-day class will be held on Saturday and Sunday, June 7 and 8, from 8 a.m. to 1:30 p.m., at the gun club's rifle and pistol range located on Sportsmans Rd. at the Naval Weapons Center.

In California, all first-time purchasers of a hunting license must receive training in firearms and archery safety, sportsmanship, and game management and conservation from a California state certified hunter safety instructor.

The course will be taught by certified instructors of the Sierra Desert Gun Club. Advance registration for the course is required since the class will be limited to 50 students. Those interested may enroll and pay the \$10 registration fee tonight from 7 to 9 o'clock or tomorrow from 8 a.m. to 12 noon at a table set up in the lobby of the Ridgecrest Police Station.

## Fast pitch softball team summer season begins

Two games on Wednesday night of last week kicked off the regular season of play in the men's Fast Pitch Division of the China Lake Intramural Softball League.

Mike Stoner tossed a 3-hit shutout for the Sand Sierra team that defeated Fuller Masonry by a score of 4-0. Heavy hitters for Sand Sierra were Bob Beecroft, who had a double and 2 singles in four times at bat, and Mark Wooten, who connected for two doubles in three trips to the plate.

In the nightcap on May 21, Pizza Villa ran up a 7-3 lead in four innings of play in a game against the NWC Navy squad, and then coasted to a win by a final score of 11-4. John Blanton, winning pitcher for Pizza

Villa, limited the Navy nine to 3 hits, and was given strong support at the plate by his teammates Ralph Stalnaker, Tim Cooksey and Andy Price. Stalnaker hit a home run and a single in three at-bats, while Cooksey garnered three singles, and Price picked up two.

The NWC O's, who had been leading the Military Slow Pitch Division with an undefeated record, suffered their first loss of the season—a 20-16 defeat at the hands of the Marauders during last week's play.

As the result of this turn of events, the Marauders moved into a first place tie with the NWC O's—both teams having a 5-1 record as of May 23.

In this free-scoring game, the NWC O's started fast and built up a 10-3 lead after three innings of play. The Marauders closed the gap, however, and after 5½ innings of play were down by a single run, 11-10.

The NWC O's came to life at this point and tallied 4 runs in the last half of the 6th inning, only to have the roof cave in when the Marauders exploded for 10 runs in the top of the 7th to put the game on ice.

Bob Poss led the Marauders in the hitting department with a home run, a double and 3 singles in five times at bat, while a teammate, Andy Moffett, came through with a triple, 2 doubles and a single—also in five times at bat.

Scores of other games played last week in the Military Slow Pitch Division were NWC O's 14, Long Shot 6; Marauders 19, Dispensary 9; Tide Riders 24, Techs 'n Rangers 8; Long Shot 16, Techs 'n Rangers, 6; and Tide Riders 24, Dispensary 12.

There were no surprises last week in the Men's Slow Pitch Division of the China Lake Intramural Softball League. Mather's Dairy Service and the SCOE Astros continued to lead the way, and have identical records of 3 and 0.

The Dairymen were led at the plate by Dale Evans, who hit two homeruns in the Mather's Dairy Service team's 20-8 win over the Knights of Columbus.

John Livingston was 4 for 4 at the plate for the SCOE Astros, who defeated the Pizza Villa squad 13-3. Livingston batted 1.000 for the night—getting a triple, two doubles and a single in four times at bat.

Scores of other games in the Men's Slow Pitch Division were Swap Sheet 14, ARCS 9; Burger King 17, Bird Olds 6; CSC 14, Time Out 11; and High Desert Saloon 24, NWC Navy 2.

After three weeks of play in the Women's Slow Pitch Division, two teams (Pizza Villa and the Rowdies) are locked in a tie for first place with identical records of 4 wins and no losses.

In last week's action, the Pizza Villa squad romped to wins over CSC and Desert Motors by scores of 31-18 and 21-6, respectively, while the Rowdies, who played

(Continued on Page 7)



**MILITARY MARKSMEN** — Two members of the NWC rifle team — AZ1 Craig Wilson (at left) and ASM2 James Head—wait for the order to commence firing during a rifle marksmanship match held last Saturday with members of the Sierra Desert Gun Club. —Photo by PHAN Doug Matthews

### NWC marksmen prepare for 11th Naval Dist. rifle championships June 10-15 at Miramar

In preparation for the 11th Naval District rifle and pistol championships, scheduled June 10 through 15 at the Naval Air Station, Miramar, the Naval Weapons Center rifle team took part in a rifle match here last Saturday against members of the Sierra Desert Gun Club.

Those vying in this event fired a total of 80 rounds in standing, sitting and prone positions at targets located at a distance of 200, 300 and 600 yds.

Overall winner of the match was Don



**SPOTTING** — Lt. Dennis Wilcox checks to see how well men on the NWC rifle team are scoring.

Herigstad, an employee in the Weapons Systems Branch of the NWC Ordnance Systems Department. Herigstad compiled a total score of 682 out of a possible 800, including 5 bullseyes.

The runner-up, with a score of 669 and 5 bullseyes, was Jim Van Devender, another Sierra Desert Gun Club member, who is employed in the Weapons Department's Electronics Systems Branch.

The remaining three places in the team competition were swept by the military marksmen on the NWC rifle team, most of whom were competing for the first time in a high power rifle match.

Despite the strong wind that held down scores, the top three members of the NWC rifle team, and their tallies, were: Lt. Denny Wilcox, 626 with 4 bullseyes; ABHC Bill Moss, 605 with 5 bullseyes; ABHC Nelson Foucher, 574 with 2 bullseyes.

### OTHTC to sponsor 1-mi. run June 5 at BHS track

A one-mile run, sponsored by the Over-the-Hill Track Club will be held on Thursday, June 5, at the Burroughs High School track. Registration for runners will start at 5:30 p.m., with races to begin at 6:30 p.m. Entry fee is 50 cents per person.

The race will be held in age group heats for men and women, with categories ranging from 9 and under to 50 and over. Awards will be presented to the winners in each category.

Everyone is invited to participate in this family event.

### Signups now being taken for Golden Anchor Golf Tourney

Completed entry forms and fees are now being accepted for the Chief Petty Officers' Club's annual Golden Anchor Golf Tournament, and plans have been announced for the weekend of festivities that will be held in connection with the tourney on June 6, 7 and 8.

Just 60 two-member teams will be entered in this 36-hole, partner's best ball competition. Golfers interested in playing in this tourney are urged by George Barnard, CPO Club Manager, to turn in their entry forms as soon as possible.

A social hour starting at 6 p.m. on Friday, June 6, at The Hideaway in Ridgecrest will kickoff the special events planned in connection with the Golden Anchor Golf Tournament.

Tourney play will begin on the China Lake golf course with a shotgun start at 9 a.m. on Saturday, June 7, and the second round of play is scheduled at the same time on Sunday, June 8.

The entry fee of \$70 per team covers the cost of a dinner-dance on Saturday, June 7, at the CPO Club, and an awards ceremony followed by a buffet on Sunday, June 8, starting at 3:30 p.m.

Guests of golfers or other persons not playing in the tourney will be charged \$8 for the dinner and the buffet on Sunday afternoon.

Entry forms containing information on handicaps and other matters pertaining to the golf tournament can be obtained at either the CPO Club or at the golf course pro shop.

Monday, June 2, is the deadline for entering this year's Golden Anchor Golf Tournament.



**NATION'S WAR DEAD REMEMBERED** — Highlight of the local observance of Memorial Day was a symbolic wreath-placing ceremony joined in by representatives of local veterans' and fraternal organizations. As this photo was snapped, Chet Howard and PN3 Angela Youmans, of American Legion Post 684 and Auxiliary, were being escorted by a member of the Desert Suns color guard prior to placing wreaths at crosses set up in the foreground.

## Capt. Haff reflects on meaning of Memorial Day

Reflections on Memorial Day and the events making the news today was the general theme of a talk given by Capt. William B. Haff, NWC Commander, during the annual observance of this patriotic holiday held last Monday morning at the Desert Memorial Park Cemetery in Ridgecrest.

Each year about mid-May he can expect the communicantes that flow through his office to include "Memorial Day" messages from various military and government sources, Capt. Haff told those present for the local observance of Memorial Day 1980.

Despite other pressing matters, each one of these special messages gets his undivided attention for a brief span of time immediately and afterwards, as well, while he

who gave the most and who gained the most, and which event will most Americans recall most vividly a year from now, the Memorial Day speaker wondered aloud.

**ULTIMATE SACRIFICE**  
"The act of paying tribute to this nation's fallen military heroes is simply open acknowledgement of what has made this country the very greatest of all nations. Our uniformed personnel who have fought and died for their ideals represent the ultimate in sacrifice," Capt. Haff said.

"The military," he continued, "stands out in our history books as our nation's backbone when the going is tough, and those who have fallen in battle are alive today in the hearts of a grateful nation."

"Should the day ever come when I fail to read a message titled 'Memorial Day,' it will be because I am blind—yes, blind, mentally or physically. And when this nation fails to honestly observe Memorial Day for its true meaning, it, too, will be blind," the Center Commander added.

"Memorial Day," he concluded, "is a day observed in remembrance of our fallen heroes who have told us and the world what this nation has been, where it is today, and how it will deal with the future."

The local observance of Memorial Day was opened by John Powers, chairman of the Indian Wells Valley Veterans' Coordinating Council, and by B. E. "Dutch" Church, former 10th District Commander of the Veterans of Foreign Wars, who served as master of ceremonies.

Cdr. John Allen, senior chaplain at the Naval Weapons Center, delivered the invocation, and the pledge of allegiance was led by Church, following the presentation of the flag by members of the Desert Suns



**Capt. William B. Haff, NWC Commander**  
Featured Speaker

reflects on its content and the sacrifices military men and women have made to help preserve the freedom that has made this country unique among all nations on earth.

The Memorial Day speaker reminded his audience that only a few weeks have passed since U.S. military personnel attempted to rescue 50 American hostages held in Iran. That effort, Capt. Haff noted, cost the lives of eight American servicemen who died during a sandstorm in the middle of the night in Iran.

Since that ill-fated mission in Iran, among the events that have grabbed the newspaper headlines and prime spots on television newscasts in this country has been a threatened strike of Major League baseball players, the Center Commander reminded his Memorial Day audience. What would the people of this country have thought if, for example, the military personnel comprising the hostage rescue team in Iran had gone on strike just before their mission in a demand for more pay and better working conditions, Capt. Haff asked.

In a comparison of these two situations,

## 'Quakes hit Mammoth area . . .

(Continued from Page 1)

region has been shaken by a series of small quakes of increasing intensity for more than a year following a period of relative quiescence, with several shocks escalating to intensities above 6.

The sequence of earthquakes in the Mammoth area began about a year ago with a number of small earthquakes just to the north and west of Bishop, apparently on a branch of the Hilton Creek Fault. The number and frequency of aftershocks did not fit the usual pattern of California earthquakes. Usually, earthquake occurrence in California is marked by a period of relative calm in a given area, broken only by a very few small shocks.

When an earthquake happens, the big one usually comes first. It is followed by a series of aftershocks that gradually decrease in strength and in frequency of occurrence. Sometimes some of the aftershocks are large, and may, in fact, be as large as the original quake.

The probability, in southern California, that a given main shock will be followed by an aftershock of the same magnitude or larger is almost exactly one half. This is

called Bath's law, after a Swedish seismologist who spent several years at CalTech's Seismological Laboratory.

The sequence of shocks in the Mammoth area has, however, consisted of a large number of shocks of different magnitude, spread over a long time.

Some of the shocks have apparently had aftershock trains of their own, but the major trend is towards an increase in activity, with, of course, remissions and exacerbations.

Earthquake swarms of this type often occur in South America, Central Chile, Alaska and in Nevada. It indicates that some more complicated process of deformation is taking place than is usual in southern California earthquakes.

This has led Alan Ryall to indicate that more shocks may be coming, and he has based this on his experience in Nevada. It may be that the main shock of the series has not yet occurred.

### NEW ACTIVITY NOTED

As of Wednesday morning, increased activity and greater heat release is being noted in the hot springs on Hot Creek. Cracking has been reported on the Hilton Creek Fault zone and numerous landslides are still occurring in the mountains.

Hilton Creek Fault has long been recognized as active and shows some prominent displacements at the surface on the west side of the valley opposite Lake Crowley. It is capable of producing earthquakes in excess of magnitude 7.

Epicenters are scattered all over the floor of Long Valley, and clearly a major readjustment of strain is taking place over a fairly wide area, according to Dr. Pierre St-Amant, head of the NWC Research Department's Earth and Planetary Sciences Division.

Local residents who own condominiums or cabins in the Mammoth area and were not there when the quakes occurred are advised to check carefully for gas leaks when they enter their vacation homes. Gas in an unoccupied place—especially one built of wood—should be turned off at the source before the vacation home is left unattended.

They are also advised to check fireplaces for structural damage before lighting fires.

## AZAA Charles Andrie selected as Sailor of Month by NWC

Aviation Administrationman Airman Apprentice Charles P. Andrie has been selected as the Naval Weapons Center Sailor of the Month for April.

Although still an Airman Apprentice, in the letter nominating him for the honor AZI John M. McClain, Logs and Records Supervisor, notes that AZAA Andrie has gained the knowledge required of a Third Class AZ and consistently performs as one.

He adds that AZAA Andrie willingly accepted the responsibility for producing the Monthly Maintenance Plan, and that working alone without supervision he personally collects, compiles, and collates the information required for this monthly report.

His supervisor also says in the letter of nomination that AZAA Andrie's willingness to work and desire to learn coupled with his easy humor and ability to converse with others contributes greatly to the productive effort and morale of the division.

AZAA Andrie, who has been in the Navy only since July 1979, reported here in November of last year. He enlisted in the Navy from his home town of Stow, Ohio, for, as he says, "the usual reasons—I wanted to travel and to gain experience."

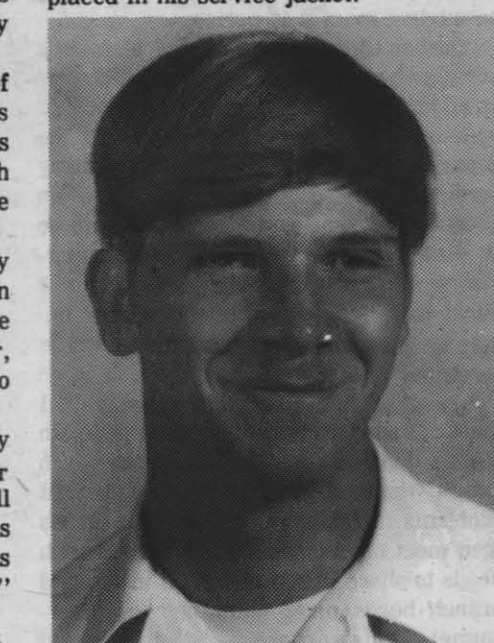
He adds that there is a strong Navy tradition in his family because his father and four uncles as well as two cousins all served in the Navy. His younger sister is carrying on the tradition as well; she has also enlisted and is now attending "A" school.

Baseball is a prime filler of AZAA Andrie's spare time. He is currently a member of the NWC Varsity fast pitch team. He also

likes other sports, and is active with those. During the times that he is not engaging in sports, he enjoys reading as a hobby, both fiction and non-fiction.

Interested in going to college, he is now taking the CLEP tests, and plans to go to Cerro Coso Community College this fall (if, he says, "I can get some wheels.")

As a result of his selection as Sailor of the Month, AZAA Andrie will receive a 96-hour liberty and no duty status for 30 days. He will also receive a NWC plaque and an official letter of commendation signed by Capt. W. B. Haff, NWC Commander, will be placed in his service jacket.



**AZAA Charles P. Andrie**



## Supply Dept. sets fine example of doing more with less

Anyone who needs to learn how to do more with less should study the Naval Weapons Center Supply Department.

Although the number of authorized personnel decreased by eight billets from fiscal year 78 through fiscal year 80, workload in all areas has grown dramatically. (Fiscal year 80 totals are projected from what actually took place through Feb. 29 of this year.)

Small purchase actions, for instance, shot up from 31,000 to nearly 50,000. Line items managed grew from 11,200 to 37,000 because of inventory transferred from the Public Works Department. And pieces received grew from less than 120,000 to well over 149,000. In all functional areas workload has climbed by as much as a 23 percent increase over fiscal year 78.

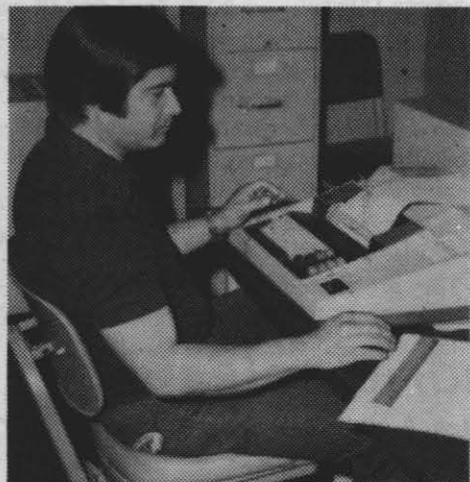
How has this been accomplished?

Mainly, says Capt. J. D. Killoran, NWC Director of Supply, by an adherence to general objectives established by the department, conscientious and diligent performance by department members, and an improved quality of personnel selected through strengthened department merit promotion procedures.

The six goals include delivery of quality goods and services on time, commitment to excellence, communications, teamwork approach, economy of operations, and personnel development.

Supply personnel recognize that they exist to serve the customer — NWC and its tenant commands — and that the quality of the Center's work as a whole is dependent in good part on having the hardware that its scientists, engineers, range and flight personnel and administrators need when they need it.

An ongoing effort exists to improve



**COMPUTERIZED MEMORY** — Dave Rivera, an "item manager" uses the remote terminal to check on a piece of equipment.

communication both within the department and between supply personnel and the rest of the Center. Acquisition briefings are held for both new Center managers and long-term managers and personnel on general and selected topics. At customer level, every effort is made to let the customer know precisely at what stage his order is and when (given normal delivery procedures not under the control of Supply) he might expect it to arrive.

Internal communications and teamwork are also heavily emphasized. Periodically an all-hands meeting is held at which new or updated information is passed on to the department's 195 civilian and 40 military personnel. These meetings also are an occasion for awards and service pins to be presented by Capt. Killoran and supervisors. All new personnel receive briefings about the Supply Department so they understand how their work fits with the whole operation.

As well as all-hands briefings, individual meetings and "skull sessions" are held with the six division heads to ensure that each knows what the other is doing and what problems might exist; the division heads then meet on the same basis with branch heads to share information and ideas, and branch heads meet with their own personnel. This program of integrated management development was begun in 1978.

With this sharing of information comes



**SKULL SESSION** — Supply analysts Bruce Langston (l.) and Dave Harrington peer over Paul Weller's shoulders as they try to solve a problem.

also a continuing effort to determine the most efficient ways of accomplishing Supply Department work: getting to the customer what he needs when he needs it. The computer is vital in this function, and a variety of systems for improving the flow of paperwork, of inventory control, of contracting and shipment and receiving and routing are continually considered so that the smoothest possible operation could result.

Personnel development begins with making the department a pleasant place to work by enhancing the working environment, but mainly effort is made to cross-train personnel, to encourage each person to better himself or herself professionally by permitting a learning environment with rewards given to those who do upgrade themselves and their operations.

Specially noted in the report made following the recent IG inspection were the high degree of expertise and professionalism displayed by department members, the team spirit shown and the high employee morale. The IG team noted the NWC Supply Department was the best it had inspected in the last year. (Capt. Killoran believes that the quality of a person's life is in direct relation to his or her commitment to excellence. The quality of life in Code 25 is high.)

An extension of the Director of Supply and his deputy is the Planning and Administrative Division. Indeed, at this time it is even headed (on an acting basis) by Cdr. J. E. Gaines, deputy Director of Supply. This group looks at the future to determine what Center needs and policies will require of the Supply Department while serving as the corporate memory for past actions in the department.

The Planning and Analysis Branch (Code 2511) plans for the future to convert needs into viable actions with realistic goals and objectives, and determines where in the department these actions should take place. The Administrative Branch (Code 2513) handles department mail, files, correspondence, personnel records within the department, training for personnel, and serves as security coordinator.

The Quality Assurance Branch (Code 2514) works with systems rather than material to determine through continual inspection of the local supply system that it complies with rules and regulations. In essence, it serves an internal review or audit and administrative function for the department.

Planning is most important at NWC due to the range of supply functions performed. The functions of the department closely parallel those of a supply center. The effort locally, says Cdr. Gaines, is to prevent "uniques" from developing, and to try to

group also makes sure that requirements such as turn-ins are met. This branch helps the customer who is lost in the supply maze to learn what he needs to do and what the status of his request is. The five people here also process an average of 50,000 procurement documents each year.

These documents are passed to the Stock Control Branch (Code 2573), where equipment specialists identify the national stock number of items sought, decide which items are interchangeable, and also, sometimes, have to decide just what the item ordered actually is. Item managers handle the inventory management function for all Center stock except aviation supplies. Last year more than 10,000 items were in the inventory; with the pick-up of the Public Works Department's material more than 37,000 items are now carried.

Inventory management is "by exception." If something goes wrong, the computer alerts the item manager. ("Thank God for the computer," Ms. Thurman adds.)

All procurement requests go through the Stock Control Branch for possible assignment of national stock numbers, a government-wide number, which is a mandatory requirement.

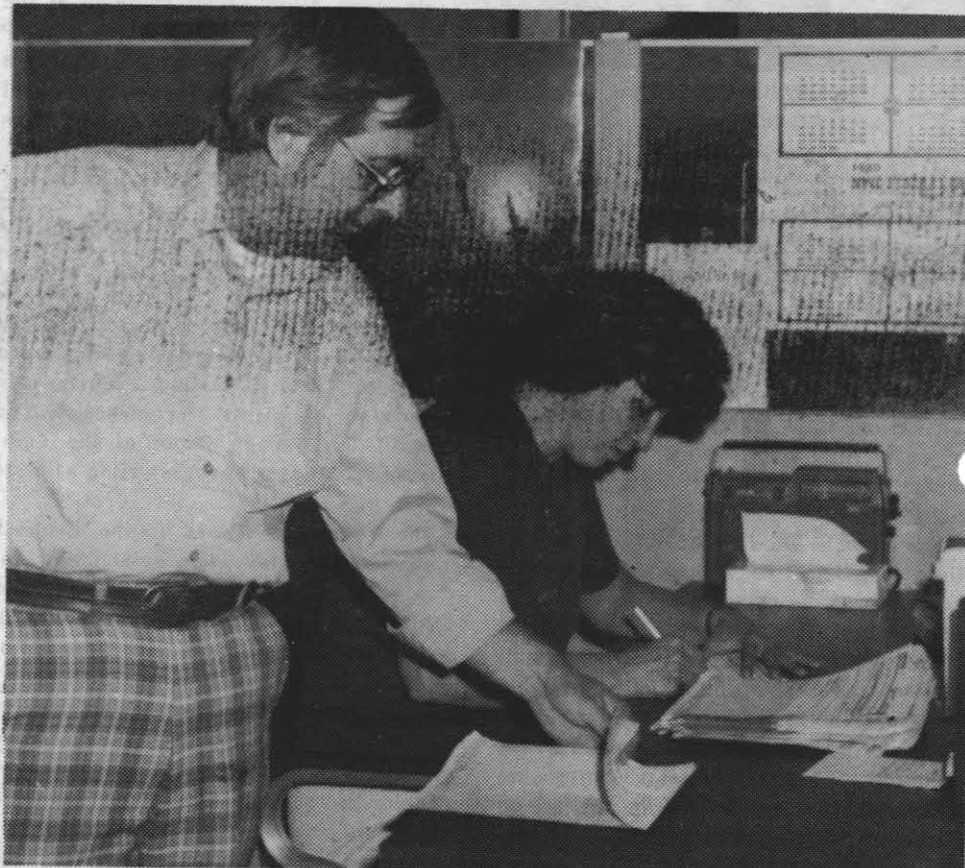
The Receipt Control Branch (Code 2575) gets all the orders due, whether these are procured from other government sources, excess items, or from vendors.

This branch maintains an open order file, handles the follow-up with both government and vendors, and notifies accounting when the item is received so that the bill can be paid. The branch also researches the age-old question of "Why hasn't my order come in?"

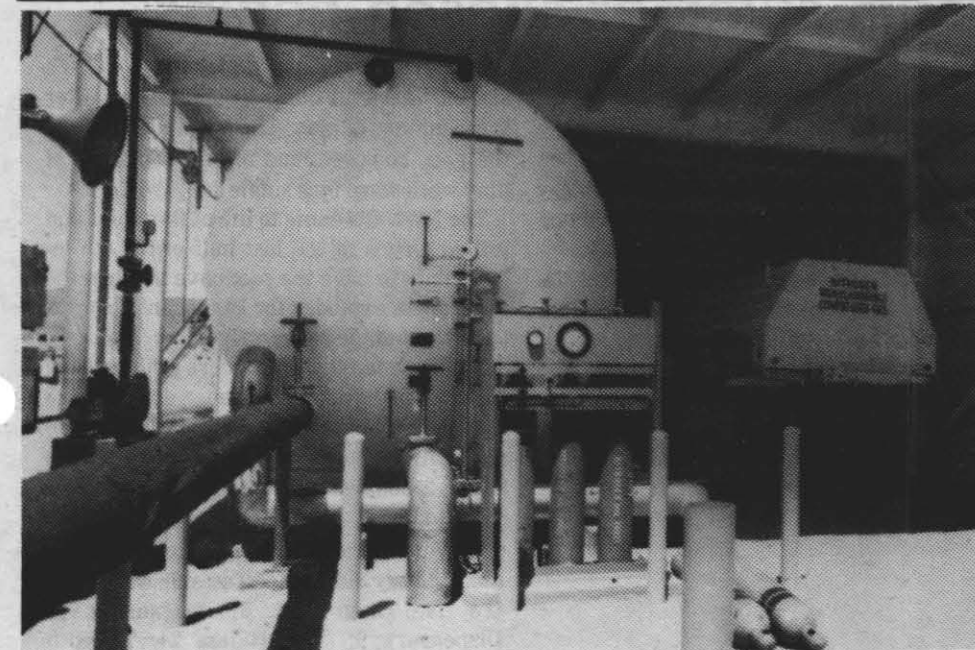
Mrs. Roberta Payne is the customer service representative who can help the customer who really needs help, either to discover why his order has not come in or if there is any sort of a problem with what he wants.

Communication between the customer and the Control Division, says Ms. Thurman, is vital. The sooner that a customer can anticipate his needs, the better; sometimes even two or three days can make a major difference when the customer gets his item. (Ms. Thurman notes that some pretty ridiculous things have come through Supply under an "urgent" tag — items that obviously could have been anticipated months in advance. Having to give such an item priority can delay other urgent orders.)

The Control Division stands ready to serve customers to the best of its ability; the customer is urged to phone division personnel and get help if a problem of an sort arises with an existing order or a planned order.



**HELP SOUGHT** — Jay Skidmore brings a problem to Roberta Payne, who is in charge of the Customer Service Branch.



**GIANT THERMOS BOTTLE** — A 13,000-gal. tank is vacuum-jacketed to maintain temperatures as low as minus 190 degrees Celsius to contain the LNG, liquified petroleum gas, and other fuels being tested at the new LNG Spill facility.

## Tests at LNG spill facility . . .

(Continued from Page 1)

power plant.)

CT-6 is remote enough so that no structures will be endangered by fire tests and dispersion tests can also safely be carried out.

While LNG has been shipped in small amounts for many years, it is now being brought into harbors in quantity from Alaska, Algeria and Indonesia to meet fuel needs. Use of LNG (liquified so that it can be transported where no pipelines exist) is increasing so that dependence on OPEC oil can be cut; it is also a conservation measure because much natural gas was formerly torched off in the process of pumping oil, and is now being put to a useful purpose instead.

The LNG is ordinarily carried in tankers with five compartments. If even one of the five compartments should rupture and spill, under worst atmospheric conditions the resultant combustible vapor cloud could be 20 miles in length.

Estimating accurately how much of a hazard LNG is has been impossible in the past because no one knew the amount of thermal radiation from a vapor fire, there were no adequate dispersion models for calculating potential cloud size, and no one knew the probability of a transition from burning to detonation in such a cloud. (NWC studies have already shown no such transition occurs.)

Of equal concern have been hazards associated with shipment of other dangerous gases such as LPG, liquid anhydrous ammonia, and liquid hydrogen. These materials, although shipped in smaller quantities, present in some ways even more danger than LNG.

The Center has been conducting an LNG experimental program supported by the Department of Energy and the Coast Guard for several years; under this program LNG has been spilled 21 times, LPG has been spilled eight times, and gas once (for comparison) to measure evaporation rate, flame shape and size, flame radiance, atmospheric dispersion characteristics, and (for LNG) the spectral distribution of the energy of the flame. These spills were carried out at the small (five cubic meter) forerunner of the new spill facility.

Because of the wide recognition that these experiments and advancement in the science of measurement have received from government and industry in this country and abroad, the Department of Energy funded the building of the new 40-cubic-meter facility, and has provided funding for full time efforts of Dr. Lind and part-time assistance from other personnel who are involved in conducting tests. Data reduction is performed by a contractor to lighten the load on Center personnel.

NWC got involved with the vapor cloud work because of its expertise with fuel-air explosives, and has continued because of benefits to the Navy and the nation from the new knowledge gained. These benefits include increased harbor and waterway safety because of better prediction of spill

and burn behavior that would enable better planning of harbor operations, identification of hazards to naval and civilian installations and preparation of accident response plans.

The Navy would also be better able to plan LNG facilities and to site these for maximum Navy operational use and public safety. LNG has great potential as a fuel for Navy shore facilities and surface ships.

The Navy will also benefit from in-house capability in handling of cryogenic materials, and the resultant technological developments. The study of the detonability of these fuels is directly related to and will benefit the fuel-air explosive weapons program.

## Memorial service held for gunshot accident victim

A memorial service was held at 10 a.m. today at the Naval Weapons Center's All Faith Chapel for Ronald Perse, 42, a China Lake police officer who was found dead in his home last Friday afternoon.

A coroner's investigation of the cause of death returned the ruling that Perse was the victim of an accidental gunshot wound.

Lt. Ron Madden, Catholic chaplain, officiated at the memorial service for the accident victim — a single man who is survived by a brother living in Wisconsin.

Officer Perse had been at work on the day prior to his death. When he did not show up or answer the telephone at his residence last Friday, other officers were sent to check on his whereabouts and found him lying dead on the floor in his quarters.



**BABY DELIVERED** — Comfortably cuddled in the arms of Mike Haynes is young Rodney Carl Nyholm, son of Mr. and Mrs. Kenneth E. Nyholm, 301-B Groves St., China Lake, while Jim West (l.) and Randy Barr (r.) happily look on. The 5-lb., 8-oz. baby was delivered by the three men from the NWC Fire Division when Laurie Nyholm, the baby's mother, was not able to make it to the hospital in time for his arrival. This is the first baby delivered by personnel manning the Center's ambulance in the more than 10 years since the Fire Division has operated the ambulance service.

## High school, jr. high graduation ceremonies planned June 4, 5

Graduation ceremonies for 356 seniors at Burroughs High School will be held next Wednesday, June 4, followed on Thursday, June 5, by similar programs for the 435 ninth graders who will be moving up to high school from Murray and Monroe Junior High schools when the new school year begins next September.

Beginning at 8 p.m. on June 4, the BHS athletic field will be the setting for the 35th annual Burroughs High commencement. Members of the Class of 1980 will march to their seats as the processional, "Pomp and Circumstance" is being played by the high school band.

The pledge of allegiance to the flag, led by Mark Hucek, senior class vice president, and the invocation delivered by the Rev. Ira True, pastor of the Church of the Nazarene in Ridgecrest, will open the program, which also will include (as special music) the playing of "Through the Eyes of Love," which is the class song of the 1980 graduates.

Student speakers during the graduation program, and the titles of the talks they will deliver, are Jim Pogge, "Potential," and Susan Driscoll, "Tapestry."

Prior to the presentation of the Class of 1980 by Michael H. McGrath, principal of Burroughs High, there will be a farewell speech to the graduates by Teri Barsaloux, senior class president, and the graduates will then receive their diplomas.

The benediction by Rev. True and the singing of the "alma mater" will conclude the ceremony. A reception for the graduates will follow in the high school multi-use room.

### NOON HOUR CEREMONY

The graduation program honoring this year's Murray Junior High graduates will be held next Thursday, June 5, starting at 11:30 a.m. in the Center theater.

A total of 218 ninth grade graduates will be receiving diplomas and certificates of completion that will be presented to them on behalf of the Sierra Sands Unified School District by Jack Crawford, president of the district's board of education.

The ceremony will begin with the invocation by LtJg. Eric L. Darrow, a Navy chaplain at the Naval Weapons Center's All Faith Chapel, who also will deliver the benediction at the conclusion of the program.

Student speakers will be Bobby Bruce and Terran Peck, who have held the office of student body president at Murray Junior High for the past two semesters.

Music for the ceremony will be provided by Murray School's concert band, directed

by Roger Lacher, and the school choir, led by Lois Sanders.

Major honor awards that will be presented during the program will include the American Legion awards, as well as awards presented by the local chapters of Delta Kappa Gamma and Phi Delta Kappa.

The graduation ceremony for 217 ninth graders from the James Monroe school in Ridgecrest is scheduled at 7 p.m. on Thursday, June 5, at Joshua Hall on the Desert Empire Fairgrounds.

In addition to the presentation of diplomas by a representative of the Sierra Sands Unified School District, the Monroe School graduation will be highlighted by a speech entitled "It Looks Like We've Made It" by Laurel Handler, a member of the graduating class, and the announcement of winners of academic awards and other honors.

Just who is to receive these awards will be kept secret until they are presented during the graduation ceremony. There will be awards to the top graduates in the fields of language, art, math, science and social studies, as well as the principal's award, two scholastic awards for high grade point averages, and awards made by local area chapters of Delta Kappa Gamma and Phi Delta Kappa.

The opening ceremony at the Monroe School graduation will include the invocation delivered by the Rev. Alfred Celestine, whose daughter, April, is a member of the graduating class and will sing a song entitled "Mahogany" during her part in the program.

A profile of the Class of 1980 will be presented by Dwyllan Gardner, principal of Monroe School, before the ninth grade graduates are called forward to receive their diplomas.

Music during the ceremony will be provided by the school orchestra, under the direction of Louise Bare.

## Mobile blood bank schedules visit to Ridgecrest Tuesday

Another of the regularly scheduled visits to Ridgecrest by the Houchin Community Blood Bank's mobile unit from Bakersfield will take place on Tuesday from 1 to 6 p.m.

Pints of blood contributed to the Indian Wells Valley Blood Bank's Advanced Fund will be collected at the Ridgecrest Elks Lodge, 200 E. Church St.

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

A good turnout is hoped for on June 3 since this will be the mobile unit's last visit here until next October. More donations are needed on a regular basis since only very small percentages of the population of the China Lake Ridgecrest area have been donating plasma and blood, Mrs. Thoms says.

Those who give blood should be particularly careful to follow up and report to Mrs. Thoms by calling 375-4323, since she is the only person in this part of Kern County who can arrange for the release of blood from the Houchin Blood Bank.

On Tuesday, prospective blood donors will be checked by a 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 blood donors who are taking any kind of medication should let the nurse know what they are taking and the dosage.

— Photo by PHAN Doug Matthews