

## Museum-sponsored trip to Bristlecone Pines slated Sunday

The annual Maturango Museum-sponsored trip to the Bristlecone Pine area, which is open to all interested persons, will be held on Sunday.

Local area residents wishing to visit the site and join in a guided tour of the world's oldest trees are invited to meet on Highway 395 at the north end of the town of Big Pine at 9 a.m., where there is a sign pointing the way toward the Bristlecone Pine forest.

Driving time from China Lake or Ridgecrest to Big Pine is about 2½ hours, and field trip participants are advised to plan their departure time from this area accordingly. The road to Schulman Grove (elevation 10,000 ft.) is well paved, but cars should be in good condition and have an ample supply of gasoline. Participants also should bring their lunch, drinking water, cameras and field glasses.

The trip will be led by Dr. Robert Berry, a Maturango Museum trustee, who (after lunch) will guide hikers to a canyon known as Methuselah's Walk, where there are 40 trees, all living, that are more than 4,000 years old. The walk takes about 2½ hours.

A single 4,000 year old tree, named Pine Alpha, is only about a quarter of a mile from the visitor center at Schulman Grove.

Copies of an attractive tour guide will be available at a cost of just 25 cents each, and the Maturango Museum is offering as a field trip prize an authentic polished fragment of a Bristlecone Pine that was fashioned from a long-used cattleman's post.

## Dance set at CPO Club

The Chief Petty Officers' Club will provide dancing under the stars to the Joe Laving Trio, a contemporary music group from Los Angeles, on Saturday from 8 p.m. until midnight.

Dinner special for the evening will be a seafood platter with lobster, served from 6 to 9 o'clock.

There are still a few tickets available for the CPO Club's annual Hawaiian luau to be held Saturday, Aug. 27, beginning at 6 p.m. This special event will feature a buffet of tropical dishes, dancing, and a floorshow by Tiare Productions.

Cost of the evening is \$10 per person and, due to a limited attendance, interested persons are urged to purchase their tickets as soon as possible. They are on sale at the club's office.



**POLYNESIAN ISLAND LUAU** — Members of the Malia Lani Polynesian Review will perform at the Commissioned Officers' Mess during a luau to be held next Friday, Aug. 19. These singers, dancers and instrumentalists will present their "Polynesia '77" beginning at 9 o'clock that evening, following tropical cocktails at 5:30 and a lavish buffet served at 7 p.m. on the lanai. In addition, there will be dancing throughout the evening. Those wishing to attend can purchase tickets, priced at \$10 per person, at the COM on weekdays from 9 a.m. to 4 p.m.



**WORLD'S OLDEST LIVING TREES** — Within easy driving distance of China Lake and Ridgecrest are located the world's oldest living trees in the Bristlecone Pines area, which is located east of the town of Big Pine on Highway 395 in Inyo County. Trees, such as the two shown above in a photo that is entitled "Eternal Friendship," decorate the stark landscape of the White Mountains. All interested persons are invited to join a Maturango Museum-sponsored field trip to the Bristlecone Pine area on Sunday morning. —Photo by Fekkether

## China Lake Players' next production to open 4-performance run Aug. 19

Final preparations are being made for the China Lake Players next drama production, "Tell Me That You Love Me, Junie Moon," which will open next Friday night, Aug. 19, at the Players' Hut, 405 McIntire St. Other performances are scheduled at the same time and place on Aug. 20, 26 and 27.

Based on a novel by Marjorie Kellogg and adapted for the stage by D. D. Brooks, this drama concerns three young people suffering from physical handicaps who desire to leave the hospital and live in the normal world.

"The entire show is being handled by young people of high school and college age," states Ralph Schwarzbach, president of the China Lake Players, "and we are calling this a 'young' production."

Rus Stedman, a senior at Burroughs, is directing the play. An active member of the "Kubik Kids" while attending the local high school, he was the student director for "Pajama Game," played the starring role

in "Around the World in Eighty Days," and also has appeared in both Community Light Opera and Theater Association (CLOTA) and China Lake Players' productions.

The assistant director is Michael Burmeister, a 1977 graduate of BHS, who has had experience both on-stage and and back stage. He was the assistant lighting director for the Players' production of "The Fantastiks," and appeared on stage in "Ten Little Indians" and "Around the World in Eighty Days."

Mark Claunch is serving as technical director. He has worked backstage during his four years as a student at Burroughs High, and was the technical director of the BHS production of "Annie Get Your Gun."

Members of the cast include Ramona Bernard as Junie Moon, Steven Carter as Arthur, Bob Schwarzbach as Warren, Wave Seybold as Minnie, and Bill Bennison as Dr. Kirkland.

Others are Lisa White as Miss Holt, Julie Pennington as Miss Oxford, Julie Baker as Marilyn, Andy McMullin as Goren, LeRoy Doig as Sidney, Rhonda Hill as Gregory, and Rus Stedman as Mario.

Tickets are priced at \$2.50 for adults and \$1.50 for students, children, senior citizens and enlisted military personnel. As in the past, the China Lake Players request reservations for the performances, due to the limited seating available at the Hut. Reservations may be made by calling Rosalie Barber at 375-9470.

## Tickets on sale for Ray Charles program

Ticket sales are in full swing for the Sept. 22 appearance here by Ray Charles, who will perform with his troupe of 30 entertainers at the Center theater for two shows, at 6:30 and 9 p.m.

According to Charles, "I try to bring out my soul so people can understand what I am. I want people to feel my soul. . . Soul is when you can take a song and make it part of you—a part that's so true, so real, people think it must have happened to you."

There will be no reserved seats for Charles' China Lake performances. Tickets, priced at \$4 each, are on sale at The Shuttle, Community Center, Commissioned Officers' Mess, Chief Petty Officers' Club, Hall Memorial Lanes, China Lake golf course and the NWC Special Services Division Office in Bennington Plaza.

In Ridgecrest, tickets are available at the Gift Mart, Baker Brothers' Furniture Store and Deboni's Ice Cream Parlor. Tickets are also on sale at the Inyokern Market in Inyokern.

## 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. For further information call NWC ext. 2259.

FRI. 12 AUGUST

"THE BELSTONE FOX" (87 Min.)

Rachel Roberts, Bill Travers  
(Drama) First shown in September 1976, this is a nature film that begins when two men kill a fox and all but one of her cubs. The sole survivor is rescued by an old woodsman (Travers). He takes the cub to a friend, a hunter who trains hounds for hunting. Surprised when the fox is accepted by a dog nursing her young, the huntsman allows it to grow up in the kennels. Tag, the fox, and a dog named Merlin become fast friends and get into lots of mischief. When Merlin grows into adulthood he becomes a fine hunting dog, but never participates in the kill. Turned loose, Tag proves so elusive and clever that it is impossible to catch him and he becomes a legend. (G)

SAT. 13 AUGUST

Free Matinee

"OUTLAWS OF SANTA FE"

1:30 p.m.

SAT. 13 AUGUST

"THE ADVENTURES OF SHERLOCK HOLMES' SMARTER BROTHER" (91 Min.)

Gene Wilder, Madeline Kana  
(Comedy) As this film begins, the audience learns that Sherlock Holmes has two brothers. The least known (for good reason) was Sigerson (Gene Wilder). The plot of this Holmes-like mystery is simple: Some important state papers are stolen and Sherlock sets up Sigerson as a decoy. The result is madcap humor and zany characters. (PG)

MON. 15 AUGUST

"VOYAGE OF THE DAMNED" (158 Min.)

Faye Dunaway, Max Von Sydow  
(Drama) This compelling film with an all-star cast recreates a factual incident in which 673 German-Jewish refugees were granted "safe passage" to Cuba in 1939 — only to find themselves denied entry and returned to Europe as victims of a cruel Nazi propaganda plot. (PG)

WED. 17 AUGUST

Matinee

"SWISS FAMILY ROBINSON"

1:30 p.m.

WED. 17 AUGUST

"LOADED GUNS" (97 Min.)

Ursula Andress, Woody Strode  
(Drama) A beautiful airline hostess named Mora (Andress) disembarks in Rome for a routine stopover. She finds herself unexpectedly drawn to an adventure brimming with action, intrigue and humor. An envelope she agrees to carry to the center of town turns out to contain a death sentence addressed to a local mobster from a rival "family." Mora is no babe in the woods, but a top agent with an international crime-busting organization. Her mission: nothing less than the destruction of both gangs. (R)

FRI. 19 AUGUST

"BLOOD IN THE STREETS" (94 Min.)

Oliver Reed, Rialto Testi  
(Action Drama) An Italian criminal (Testi) buries a fellow thief shot during a robbery attempt. In Milan, an industrialist is murdered by a cyclist and the politically motivated assassins blame the killing on the dead thief. In order to get Testi, the assassins plot the kidnapping of a prison warden's wife. When a guard is killed, Testi has an opportunity to escape, but instead decides to help find the warden's wife. With no time to spare, the two embark on the dangerous mission of finding the assassins before it is too late. (R)

Disco music at Shuttle

Ron Penny will be playing disco music at The Shuttle tonight and tomorrow night from 9 to 1:30 a.m.

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To:	

# nwc rocketeer

Naval Weapons Center  
China Lake  
California

August 12, 1977

Vol. XXXII, No. 31

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## ESKIMO V test set Aug. 17 at Randsburg Wash

ESKIMO (Explosive Safety Knowledge Improvement Operation) V, another in a series of explosion tests of full scale, earth-covered magazine structures (called igloos) is scheduled to take place at noon next Wednesday, Aug. 17, at the Randsburg Wash test range.

Among the objectives of ESKIMO V is justification for eliminating concrete thrust beams (a costly construction feature) from the design of oval steel arch igloos.

Test planners also hope to confirm the safety of applying the current igloo separation distances to concrete arch igloos which never before have been tested at such close proximity to one another, and once again to demonstrate the blast suppression characteristics, and consequently the greater safety, of earth-covered storage compared with above-the-ground storage of munitions or other hazardous materials.

According to Bill Finder, project engineer on ESKIMO V, who is on detail to the Ground Projects Branch of the Test and Evaluation Directorate from the Range Department's Data Reduction Branch, between six and nine months' effort has gone into the preparations for next Wednesday's test.

The work comes under the general (Continued on Page 3)

## Training exercise in dive bombing held at NWC's Coso Range

A dive bombing training exercise was carried out last Tuesday and Wednesday at the Naval Weapons Center's Coso Range by the aircraft of Air Wing Two. These aircraft, which operate from the carrier Ranger, are temporarily based at Fallon (Nev.) Naval Air Station during this weapons deployment.

The exercise provided an opportunity for Naval Weapons Center personnel to perform an evaluation of the latest dive bombing systems of the A-7 Corsair II, the A-6 Intruder, F-4 Phantom and S-3 Viking aircraft. The systems of all but the latter are computer aided, while the Viking has a manual dive bombing system.

Personnel here recorded impact accuracies, and from these will determine circular error probabilities (CEPs) of the various systems. Coordinating the work at the Naval Weapons Center was Alice Campbell, a mathematician with the Weapon Synthesis Division of Code 39.

A total of 126 daylight sorties were made over the two-day period by the aircraft of VA-25 and VA-113 from Naval Air Station Lemoore, VA-145 from Whidbey Island, Wash., VF-21 and VF-154 from NAS Miramar, and VS-29 from North Island. There was one aircraft per sortie, during each of which four Mark 76 practice bombs were released.

During the tests, the A-7 CIPP (Continuously Computed Impact Point) mode, which was developed by personnel of NWC's Code 31408, showed excellent results in both initial target acquisition and in delivery accuracy.

The exercise was sponsored by the Joint Technical Coordinating Group/Munitions Effectiveness. This tri-service organization, headquartered at the Aberdeen Proving Grounds, Md., puts out the Joint Munitions Effectiveness Manuals.

## Changes in major product line leads to new name for Code 32: Ordnance Systems Dept.

On Aug. 1, the Propulsion Development Department officially became the Ordnance Systems Department. This change was made, it was pointed out by B. W. Hays, department head, because today propulsion is just one of this department's many major product lines.

Over the years the Ordnance Systems Department has expanded to include conventional weapons, pyrotechnics, warheads, energy, explosives, propellants, power systems, ship survivability, ordnance vulnerability and miscellaneous technology support. The department has developed and enlarged upon many assets required to enhance its activities at the Naval Weapons Center. These assets include professional and highly dedicated personnel with demonstrated expertise in their related fields as well as specialized laboratory, test, and range equipment.

Range of Product Lines Summarized  
The Ordnance Systems Department is staffed with approximately 280 employees. A brief description of the four divisions and several support offices comprising this department illustrates its range of product lines.

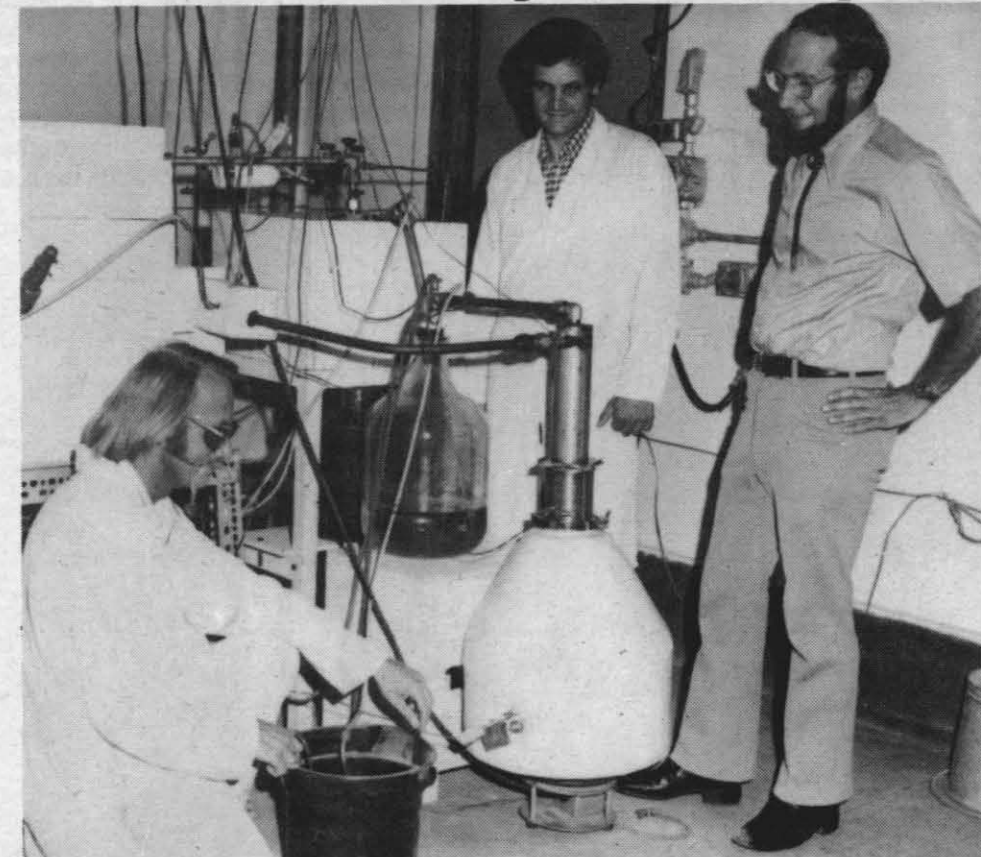
The Technical Utilization Office (TUO), Code 3203, is headed by George Linstead. This office is responsible for the planning, administration, and coordination of the Center's effort in the area of technology transfer and identifying specific aspects of the Center's specialized technical resources that can be applied to solve problems confronting non-DoD agencies such as the Environmental Protection Agency, U.S. Coast Guard and the Federal Aviation Administration.

Linstead currently serves as the chairman of the DoD Technology Transfer Consortium (45 military laboratories) and



**METICULOUS WORK** — Robert Gould, an aerospace engineer in Code 3244, is working in the Ordnance Systems Department's Shotgun Facility loading ammunition for propellant evaluation. Shotgun shells, filled with a solid propellant, are fired at a steel plate, and fragments of the propellant are caught in a basket.

These particles are put in a closed combustion bomb, ignited and pressure measured — a process that is used to compare the properties of various types of propellants and also to compare the effects of aging on the same types of propellants.



**ADVANCED TECHNOLOGY PROJECT** — Three members of the Naval Weapons Center energy team (l.-r.) Jim Diebold, Gary Smith and Dick Fulmer, check out the trash-to-gasoline pyrolysis unit that is used in one of a number of energy programs that are in various stages of experimentation and development. Fulmer heads the Energy Program Management Office in Code 32. —Photos by Ron Allen

the Federal Laboratory Consortium for Technology Transfer (156 federal laboratories). In addition, he is the coordinator for the Far-West Region of the Federal Laboratory Consortium.

TUO personnel also perform ambient air quality monitoring and atmospheric evaluation in support of DoD programs and state and local environmental studies. An instrumented Navy aircraft and three ground-based mobile instrumentation platforms provide the capability for three-dimensional mapping of air quality.

The Propulsion Technology Office, Code 3205, is headed by Dr. Charles Thelen. He provides the Deputy Manager function for the Naval Material Command and Naval Air Systems Command missile propulsion technology block programs. The Propulsion (Continued on Page 4)

## Naval Weapons Center hosts men brought in off fire lines for rest

A brief rest from the rigors of battling the Bonita fire in the Sequoia National Forest has been provided this week by the Naval Weapons Center for many of the seasonal fire fighters who were assembled to assist with this rugged task.

The lightning-caused fire, which started about 14 miles northeast of Johnsondale in Tulare County, was first spotted shortly before 9 a.m. on Aug. 2. By this past Monday, it had burned 7,250 acres (nearly all of it U.S. Forest Service land) and destroyed an estimated 6 million board feet of timber.

Due to hard work, however, the Bonita fire was reported to be officially contained at 8 a.m. Tuesday, after having blackened 7,600 acres of prime forest land.

Because badly-needed rest was difficult to obtain, even when the fire fighters were out of the line for a brief respite (due to the noise and turmoil of the base camp set up at Beach Meadow to direct the fire fighting operation), arrangements were made with officials of the Naval Weapons Center to use NWC facilities as a rest and recreation

area. Navy Barracks 880 was turned over to U.S. Forest Service personnel, who were transported here in chartered buses. In addition to bunks with clean bedding and showers, the Forest Service fire fighters received their meals at the Navy mess hall and had such recreation facilities available for their use as the gymnasium with its indoor swimming pool, the bowling alley, (Continued on Page 3)

## Centerites assured of update on RIF action

Progress reports will be provided via the ROCKETEER on a regular basis regarding the status of the reduction in force at the Naval Weapons Center, it was re-emphasized this week by Capt. Fredric H. M. Kinley, NWC Commander.

Information on the total number of positions to be abolished is expected to be determined by next Friday, Aug. 19.



## NWC summer employees perform wide variety of tasks

By Terrie Jacks

On-the-job experience in a variety of fields is being offered 116 people this summer through the Naval Weapons Center's annual summer employment program.

The kinds of jobs available vary according to requests received from the various departments on the Center. Positions filled by this summer's employees include summer aide, clerk, math aide, clerk-typist, mathematician, recreation aide, motion picture production specialist, administrative aide, engineering aide (electronics, civil or mechanical), computer aide and editorial clerk.

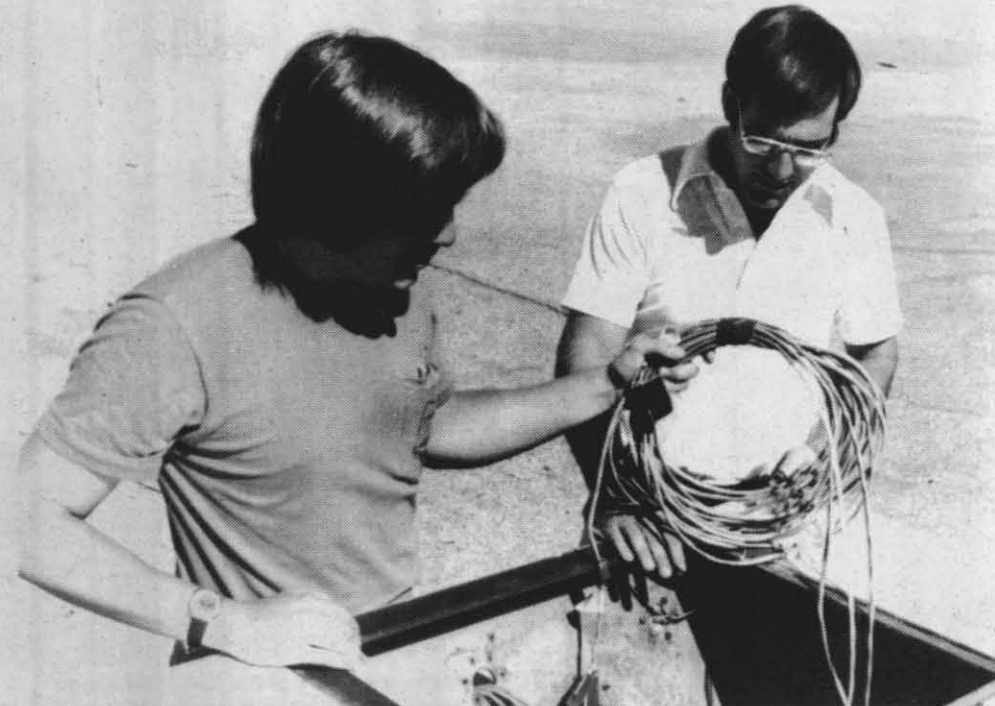
All summer applicants are chosen according to their scores on the summer Civil Service exam given yearly by the Civil Service Commission. The exams are graded in Washington, D. C., and the scores are

sent to the area the applicants indicate on their test form.

According to Sue Prasolowicz, personnel staffing assistant and coordinator of the summer program, nearly 800 people applied for NWC summer employment this year. Summer employees are largely college students, graduate students, or financially disadvantaged high school students.

Peggy Bickett is working as a mechanical engineer in the Control Design Branch of the Engineering Department in this, her first summer as an NWC employee. She will return to South Dakota School of Mines and Technology in the fall, where she is working on her M.S. degree with a research assistantship in mechanical engineering.

Miss Bickett, who has studied in France (on an International Rotary Fellowship) as well as in her native South Dakota, has been



**DIVERSE ASSIGNMENTS** — Carl Finch and Michael McLane are two of the current group of summer employees at the Naval Weapons Center. Both are employed as electronics engineering aides for the Range Department. They are pictured above preparing signal lines to be set up along the SNORT track. These lines trigger cameras which make photographic records of all track firings.

## Airline flight schedule changed

A new schedule of Golden West airline flight service to and from Inyokern airport and the Los Angeles International Airport is now in effect. Since no government transportation is available between the Naval Weapons Center and Inyokern, airline passengers must make use of either private vehicles or call the Arrow Taxi Co. in Ridgecrest. The current schedule of flights is as follows:

Flight No.	Leave Inyokern	Arrive Los Angeles	
883	6:05 a.m.	7 a.m.	Monday
885	6:05 a.m.	7:15 a.m.*	Tues.-Fri.
891	9:50 a.m.	11 a.m.	Sunday
889	9:50 a.m.	11:30 a.m.	Mon.-Fri.
893	5:55 p.m.	7:15 p.m.	Mon.-Fri.
895	10:05 p.m.	10:55 p.m.	Friday

	Leave Los Angeles	Arrive Inyokern	
886	8:30 a.m.	9:35 a.m.	Sunday
884	7:55 a.m.	9:15 a.m.	Mon.-Fri.
888	3:45 p.m.	4:55 p.m.	Mon.-Fri.
892	8:20 p.m.	9:25 p.m.	Mon.-Thurs.
890	8:20 p.m.	9:15 p.m.	Friday
894	8:45 p.m.	9:55 p.m.	Friday

\*Includes stop in Palmdale

## The Rocketeer

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Naval Weapons Center  
China Lake, California

Capt. Frederic H.M. Kinley

NWC Commander

R.M. Hillyer

Acting Technical Director

Dr. Robert H. Pearson

Head,  
Technical Information Department

Don R. Yockey

Editor

Jim Stansell

Associate Editor

Terrie Jacks

Editorial Assistant

Ron Allen

Staff Photographer



### DEADLINES

News Stories Tuesday, 4:30 p.m.  
Photographs Tuesday, 11:30 a.m.  
The Rocketeer receives Armed Forces Press Service material. All are of official U.S. Navy photos unless otherwise identified. Printed weekly with appropriated funds by a commercial firm in compliance with NPP-R P-35, revised January 1974. Office at Nimitz and Lauritsen. Information published in the Rocketeer does not necessarily reflect the official views of the Department of Defense.  
Phones 3354, 3355, 2347



**TECHNICAL WRITER** — Interviews, photographic coordination, writing and editing are required for each article Bev Lough submits to Current Technical Events, a weekly memorandum to the Center's technical community put out by the Technical Information Department's Special Writing Projects Branch, where she is employed this summer.

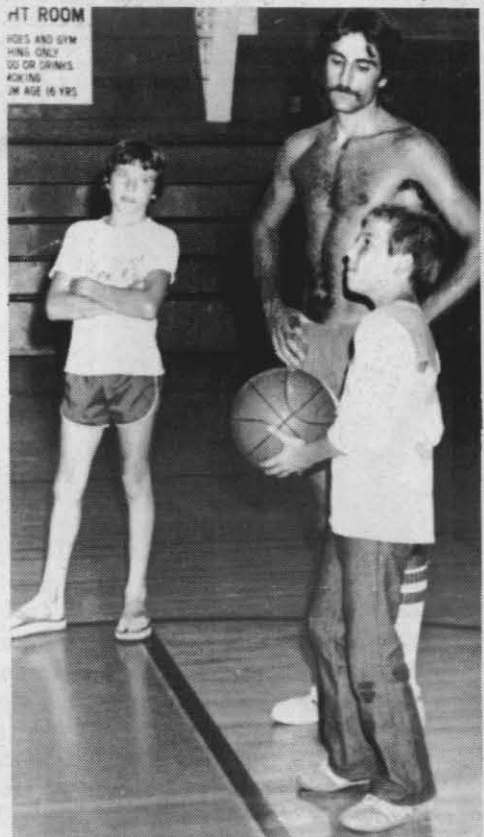
doing data reduction of Salt Wells tests and working on a wing flutter problem for the Sparrow program this summer. "I've learned so much just in the short time I've been here; and I really enjoy working with the people at NWC," she says.

Mike McLane and Carl Finch are both working for the SNORT Instrumentation Group, performing a variety of tasks such as modernizing the extensive intercom system at the SNORT track by replacing World War II vacuum tubes with modern circuits, doing sled wiring and setting up signal lines along the track, and even film editing and photography.

Both in their junior year majoring in electrical engineering — McLane at Fullerton and Finch at San Diego State University — these young men are quite enthusiastic.

"Working here is a valuable learning experience," says McLane. "Everyone helps you and teaches you. There's considerable emphasis on safety here, and the responsibility we're given makes us feel useful and important. And the firings on the track are spectacular!"

Finch worked in the research aspect of systems development last summer. "I like working here because now I can see the test and evaluation side of what I did last year."

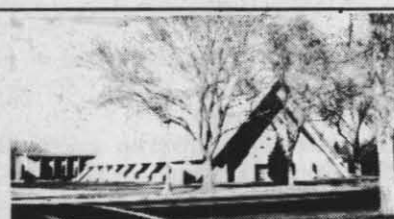


**SHOOTING BASKETS** — Supervision of those using the Center gymnasium is one of Rick Sbrocca's duties as an aide for the Special Services Division. In the photo above, two local youngsters are getting some valuable pointers from the Chico State recreation major.

The work here is intricate and exciting. You can see what happens. And the people here are really interested in helping us learn all we can," Finch said.

The Film Projects Branch of the Technical Information Department is taking advantage of the knowledge of USC graduate cinema student David Kellogg this summer. He, in turn, finds working as a motion picture production specialist a valuable opportunity because "I haven't found my niche yet and this job enables me to become familiar with all the aspects of film making." Indeed, he has been doing a little bit of everything, from sound work and filming, to helping the branch put together its archives.

John Stoessel, in his senior year at UCLA, is working his second summer at NWC, this year as a civil engineering aide in Public Works' Civil Engineering Branch. Spending only about a quarter of his time in the office (drafting), the rest of his job consists of field work, doing surveying at Randsburg (Continued on Page 5)



## DIVINE SERVICES

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

**ECUMENICAL**  
Wednesday Noon Bible Study 1130  
Thursday Men's Prayer Breakfast 0630

**ROMAN CATHOLIC**  
MASS  
1700 fulfills Sunday obligation  
Saturday 0700 0830 1130  
Sunday 0815 1245  
Nursery, Chapel Annex 1  
Daily except Saturday, 1135, Blessed Sacrament Chapel

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

**RELIGIOUS EDUCATION CLASSES**  
Sunday Pre-School thru 6th grades 1015  
Wednesday Kindergarten thru sixth 1530  
Sunday seventh & eighth (Junior High) 1900  
Above classes are held in the Chapel Annexes across from the former Center Restaurant.  
Sunday evening Ninth thru 12th grades  
As announced "In Home" Discussion Groups Youth Rallies  
Contact Chaplain's Office for specifics.

**JEWISH SERVICES**  
EAST WING — ALL FAITH CHAPEL  
Sabbath Services every Friday 1930

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

## Admiral's Cup sports events open to all military personnel

(Editor's note: The following article is being published in response to numerous questions that have been received concerning the organization of Admiral's Cup competition at the Naval Weapons Center, and especially about timing of the various events and eligibility rules governing an individual's participation in them.)

Admiral's Cup competition here was established in 1975 in order to promote monthly athletic competition between the major activities at China Lake. It was designed to encourage athletic participation by as many military personnel as possible in a variety of sporting events, and provide a medium for meeting and competing with personnel attached to the various military activities here.

The original teams consisted of NWC, the Naval Air Facility and Air Test and Evaluation Squadron Five. However, in December of last year NAF was disestablished and the names NWC North and NWC South were chosen in place of NAF and NWC.

The competition consists of 12 athletic events — one per month — starting in July and ending the following June with a track meet and all hands picnic. The Admiral's Cup trophy is awarded to the activity winning the most points over the course of the season, and the athlete of the year trophy goes to the individual who has accumulated the most "individual points."

### Plaques Awarded Monthly

Monthly sport plaques are awarded and inscribed with the name of the winning team for each event. These events will occur normally during the last week of a month, but may be moved to an earlier time in order to avoid holidays. The schedule is as follows: July, bowling; August, golf, September, soccer; October, football; November, water polo; December, marksmanship; January, racketball; February, basketball; March, volleyball; April, tennis; May, softball; June, track and all hands picnic.

A first place finish is worth five points in each event. The second place team receives three points, and the third place team, 1. No points are granted to an activity which fails to field a team.

Points for the athlete of the year award are earned in two ways. First, one point is granted an individual for each team competed against. Second, one point is awarded for each team defeated. The maximum possible number of points that can be earned during any given month is four.

### TAD Personnel May Participate

All military personnel assigned to duty at China Lake are eligible to participate in Admiral's Cup competition. TAD personnel may participate if they have been, or will be, on board for 30 days or more.

All personnel assigned to VX-5 will participate on that activity's team(s). The fence line will determine if NWC personnel play for NWC North (the airfield and ranges) or NWC South (mainland). The rule of thumb is "where you are working is where you play."

Airfield personnel who are TAD to the galley, bachelor enlisted quarters, etc., will play for NWC South if they are TAD for 30 days or more. Dispensary personnel and ground electronics personnel will play for NWC South. Officers will use their "desk location" to determine if they are to compete for the North or South teams.

## Golf tourney . . .

(Continued from Page 6)

In addition to the 18-hole competition between all of the teams entered in the tourney, there will be a 9-hole horse race between the 10 low net teams.

Golfers' current Southern California Golf Association handicaps will be used in determining team scores. There also will be a Peoria flight for those who do not have SCGA handicaps.

## Employee in the Spotlight



Gene Kotchick

course. But they should never be your friends. The contractor shows allegiance to his stockholders, and I show allegiance to mine — the U.S. government."

A native of Endicott, N.Y., Gene moved from there to Glendale, Calif., with his family at the age of 11. During the years 1953-56 he served in the Army as a rifleman with the 101st Airborne Division, stationed first at Ft. Benning, Ga., and later at Ft. Bliss, Tex. At this latter duty station, he eventually became a chief model maker, putting together all mockups and training displays for the Army's new missile crews.

Actually, Gene had been an experienced model maker for years before becoming a soldier. At the age of 7, he relates, he built his first model — a kite — from bamboo and a muslin sheet. His elder brother talked him into leaping with it off the second floor balcony of their New York home. Gene broke his ankle. His brother was reproved for this action, which may have served to give the invalid a taste of airborne life, too.

### Moved to Lancaster

Discharged from the service in 1956, our employee in the spotlight traveled to Lancaster, Ca., where he found work with the National Advisory Committee for Aeronautics and went to school part time at Antelope Valley College. Starting out as a parts chaser in the warehouse, he worked his way up to procurement and finally became a contracting officer for the organization, by then known as the National Aeronautics and Space Administration.

Gene left NASA in 1974 and served for the next 14 months with the U.S. Forest Service in Santa Barbara, where he was the contracting officer for the Los Padres National Forest. After a "very enjoyable assignment" which consisted of buying "everything from fuel to food to helicopters" for the fire camps, he arrived at China Lake in March 1976, hired specifically to do the job he's doing.



**B MOUNTAIN RIDERS DO WELL** — Posing with their ribbons on their horses' bridles are three China Lakers who captured a total of 23 awards at the first annual summer California Horseman's Association Gymkhana, which was held recently at the Desert Empire Fairgrounds in Ridgecrest. They are (l.-r.) Bud and Kim Dean and Terry Youngblood. Youngblood is mounted on Nugget, an 18-year-old palomino gelding belonging to Dean, which the two of them took turns riding during the competition. They won a total of seven second-place ribbons.

The son of a restaurant owner, Gene is known around the local area as some kind of gourmet cook. He describes cooking, his primary hobby, as "a release, a very relaxing something to do when I get home from work. Instead of pouring a drink, I put on an apron and start cooking . . . and then pour a drink."

### Doesn't Like Microwave Ovens

It may be interesting to know that Gene, a chef and a man of science, thinks that microwave ovens are no boon to good cooking. Although he can't explain why, he says food seems to come out tasteless and tougher in such appliances.

Some of Gene's specialties are a Hungarian creme chicken in dumplings, shish kabab, and pigs in a blanket. And then there's his Italian-style fish soup that has Alaskan king crab legs, oysters, clams, scallops, shrimp, diced tomatoes, onions, olive oil and good white Portuguese wine. "It smells outstanding," allows Gene, advising, "by the way, if you don't want a fishy smell while cooking in your house, add one teaspoon of ginger for each pound of fish, whether you bake, cook or fry."

Gene's hobby diet is a varied one, however.

For instance, he tastefully restores antique cars. At the moment, he has a 1948 MGTC and a 1954 Jaguar 140-M coupe which was recently clocked (though not by him) at 169 mph. During the early 1960s, he and three other men — especially the Barris brothers of Los Angeles — built Cookie's roadsters for the TV series "77 Sunset Strip."

### Also Interested in Flying

Adding spice to his life, moreover, is his love of flying. He owns a 1947 Aeronca champ single-engine tandem two-seater aircraft which is now being re-covered in Madera, and is active in the Foothill Chapter (Pasadena) of the Flying Samaritans, a group of volunteers which flies American doctors and dentists down to Mexico once a month.

Gene's interests assume an outdoorsy flavor, too, because he fishes for trout in the Sierra Nevada, cross country skis in the Mammoth Lakes area and hunts birds around Madera. He has also toured the 48 continental United States by car.

It was mentioned that Gene hopes to become a casino dealer when he retires. Does he gamble? "Absolutely not, that's for fools," he says in an uncharacteristically hard-boiled manner.

## Cerro Coso student registration to be held Aug. 29, 30, 31

Cerro Coso Community College students will be registered for the fall semester between Aug. 29 and 31, Dr. Richard S. Meyers, president of Cerro Coso, announced.

High school graduates and non-graduates who are over 18 years of age may enroll in the tuition-free community college. High school juniors and seniors may also attend college classes if they have the approval of both their high school principal and the college's dean of personal services.

All registration will be handled in the office of admissions and records on the Cerro Coso campus, from 2 to 6 p.m. each day. A late registration period will be held Sept. 6 through 16; however, students are urged to enroll as soon as possible because many classes fill to capacity early.

Students who wish to see a college counselor may phone the college at 375-5001 for appointments on weekdays between Aug. 24 and 31. Student services available during the registration period for those who require them will include veterans' affairs, financial aids, career center, job placement office, handicapped services and the learning resource center.

Fall semester classes will begin on Tuesday, Sept. 6; the semester ends on Wed., Jan. 25, 1978.



## Robinson Memorial golf entries still open until tonight

Entries are still being accepted, and will be until early this evening at the China Lake golf course pro shop, for the second annual Frank D. Robinson Memorial Golf Tournament.

As of mid-week, a total of 53 two-member teams was registered for this event, which will get under way with a shotgun start (players teeing off simultaneously from all 18 holes around the course) at 8 a.m. tomorrow.

Among those who will be vying for the more than \$1,000 in merchandise awards that are at stake are George McChesney, the China Lake Golf Club's current champion, who is teamed up with Mike Stephens for this partner's best ball event.

The entry list (at the time this information was prepared for publication) included 14 women — among them the duo of Mary McDonald and Nancy Webster, two former China Lake Women's Golf Club champs.

Out-of-town interest in the Robinson Memorial Golf Tournament is evidenced by the sign-up of Lee Bernhardt, television program director and former grid great at Trona High, who is paired up with Diane Bernhardt, his sister-in-law (wife of Burroughs High School varsity football coach Bruce Bernhardt).

Dick Rusciollelli and his wife, Joanne, are considered by tourney officials to have a good chance to be among the tournament's prize winners. Another husband-and-wife team that has entered is that of Dick Youngman, head of the NWC Special Services Division, and his wife, Sue.

The tournament is sponsored by the Century Football Association of the Indian Wells Valley and, in memory of Frank Robinson, a long time booster of athletics (particularly football) all proceeds from the entry of \$50 per team will go into a fund to be used for the improvement of athletics in the local area.

The entry fee will cover the cost of playing golf, as well as a dinner-dance Saturday night at the Chief Petty Officers' Club during which awards will be presented to the winners in each flight.

(Continued on Page 7)



**BIG MOMENT** — Tom Fortney, director of this year's China Lake Women's Fast Pitch Tournament, is shown presenting awards to three players following the championship game last Sunday afternoon. They are (l.-r.) Line Scanlan, accepting the umpires' sportsmanship trophy for the Time Outs; Jannie Mann, the tourney's most valuable player; and Linda Lindsea, most valuable pitcher.



**CLOSE CALL** — Gwen McGee, left fielder for the Bakersfield Hornets, slides safely into third base during the first inning of last Sunday's championship game in the China Lake Women's Fast Pitch Tournament. The third baseman for Victor Cruz Trucking, who has just applied the late tag, is Kim Gooden, while the umpire at left is Dwayne Harms and the Hornets' coach (with back to camera) is Jim Helton.

—Photos by Ron Allen

## Women's Fast Pitch Tournament title goes to Porterville team

A newcomer to the China Lake Women's Fast Pitch Tournament walked off with all the marbles last weekend as the gals representing Victor Cruz Trucking of Porterville topped eight other teams to win this fourth annual event.

In the championship game, Porterville defeated the runner-up Bakersfield Hornets, 6-3, late Sunday afternoon at Reardon Field. Going into this contest, each team had suffered only one loss — each at the hands of the other — throughout the double-elimination tournament.

The Hornets suffered their first loss last Saturday night — the third game they played — by dropping a 15-7 decision to Porterville, and then fought back in the losers' bracket to earn another shot at their nemesis, whom they defeated early Sunday afternoon by the lopsided score of 11-1. This set the stage for the championship game.

Getting off to a good start, the Hornets scored two runs in the bottom of the first frame and one in the third, but their offense

sputtered out after that and the Bakersfield team failed to add anything to its total in the succeeding innings. Porterville calmly scored three runs in the fifth and a deciding three in the sixth to wrap it up rather easily.

Pitching for the Hornets in the championship game was Linda Lindsea, who allowed 12 hits while striking out two and yielding no bases on balls. She won the tournament's most valuable pitcher award, based on her 40 innings of work in which she had 13 strikeouts and issued only three walks.

Wendy Ward went the distance for the Porterville nine in the tourney title tilt while allowing only two hits, striking out three and walking three.

### Four Local Teams Compete

Four local teams were among the nine that competed in this invitational event.

In the first game of the tournament, the Creeps came against another Indian Wells Valley team, Maury's of Argus, and outscored them 17-10. The winners drew a bye in their second game, but in their third contest were defeated by Porterville, 4-1.

Relegated to the loser's bracket, the Creeps were eliminated Saturday night by the Riverside Royals by a final tally of 13-8.

Maury's, after their initial loss to the Creeps, were then dropped from further competition the next afternoon by a 13-3 loss to the Royals.

Another local squad, the Dust Devils, played Sierra Chemical of Bishop last Friday night and lost, 13-3. Among the losers, they were defeated, and eliminated, by the Time Outs who racked up a 17-9 victory.

The Time Outs early Saturday morning lost their first game to Porterville, 14-4, and after their victory over the Dust Devils in the losers' bracket lost Saturday night to the Bakersfield Crickets, 8-0, and headed for the showers.

### Tournament Director

Director of this year's tournament was Tom Fortney. It was sponsored by NWC's Special Services Division and the Hi-Desert Umpires' Association.

After the final out was made Sunday afternoon, awards were presented to the outstanding teams and individual players, including Linda Lindsea, most valuable pitcher. The most valuable player trophy went to Jannie Mann, catcher for the Porterville nine, who hit .412 over the course of the tourney and made several outstanding defensive plays.

The first place sponsors' trophy was presented to the Victor Cruz Trucking team, each member of which received an individual trophy of her own. The Hornets received the second place sponsors' trophy, and the Time Outs were presented with the umpires' sportsmanship trophy.



Doug's Corner

## Intramural Volleyball League to organize for coming season

An organizational meeting for the upcoming NWC Intramural Volleyball League season will be held next Thursday, Aug. 18, at the Community Center, beginning at 5 p.m.

Teams interested in participating in the upcoming season of two-on-two or coed competition should send at least one representative to this meeting.

### Tourney Cancelled

Due to a lack of non-local participation, the Men's Slow Pitch Softball Tournament, which was to have been held here this weekend, has been cancelled.

### Winter Softball

Teams interested in competing in the NWC Winter Softball League should contact the gymnasium office by calling NWC ext. 2334.

The league is scheduled to begin play around mid-September.

### Flag Football

Rules, awards and officiating are among the items to be discussed at an organizational meeting for the NWC Flag Football League, which will be held at 5 p.m. Monday at the Community Center.

The league had five teams last year; it is hoped to have at least eight teams competing this season.

### Water Exercise Class

A new session of the ever-popular water exercise class for women will begin Monday and continue until Aug. 26 at the Chief Petty Officers' Club swimming pool.

Classes will be held each weekday from 9 to 10 a.m. and 10 to 11 a.m. Fee is \$7 per student. Signups may be made at the gymnasium office.

### Women's Fitness Class

A Thursday morning physical fitness class for women will begin at the Center gymnasium on Aug. 25 under the direction of Kelly Moulton.

Fee for the course, which will be held from 9 to 10 a.m., is 50 cents per session.

### Bowling Special

Hall Memorial Lanes is now offering its patrons three games for \$1 from 11 a.m. to 5 p.m., seven days per week.

In addition, a Senior Citizens' Bowling League is now being organized for persons 55 years of age and over. The league will begin play next month. Further information may be obtained by telephoning NWC ext. 3471.

## Tennis Club doubles tourney scheduled Saturday, Sunday

An estimated 50 persons are expected to compete in this weekend's doubles tennis tournament sponsored by the NWC Special Services Division and the China Lake Tennis Club.

Action will get under way at 7 a.m. tomorrow at the China Lake tennis courts. Final matches are slated to be held about 3 p.m. Sunday, and awards will be presented at the home of Dr. and Mrs. Lon Graves in Ridgecrest at about 8 o'clock that evening.

According to tourney director Bob Forrester, among the top teams will be Dick and David Boyd in the men's division, Ruth O'Neill and David Boyd in the mixed division, and Mrs. O'Neill and Charlene Newmyer in the women's division.

## ESKIMO V test set Aug. 17...

(Continued from Page 1)

cognizance of Fred Weals, head of the T&E Directorate's Ground Projects Branch, and the range engineer for the test is Bob Rasmussen of the Range Department's Ground Operations Branch.

An oval arch steel magazine used in previous ESKIMO series tests has been modified for the upcoming test. In addition, an explosive storage magazine that features a reinforced concrete arch of U.S. design also will be tested.

Favorable tests of either or both explosive storage magazines will significantly justify construction improvement plans for NATO and U.S. bases in Europe during fiscal years 1978-80, Finder said.

A stack of 8 lb. demolition blocks weighing a total of 75,000 lb. will be detonated.

## Desert training exercise slated for Seabee Reservists

A desert training exercise is on tap this weekend for the members of China Lake Detachment 0217 of Reserve Naval Mobile Construction Battalion (RNMCB) 17, who will be leaving this evening at 6 for the Mojave B range area.

The local Seabee Reservists, under the command of Lt. Paul Miles, will be accompanied by the commanding officer of the Bakersfield Naval Reserve Center and a group of eight Seabee Reserve members from Bakersfield, as well as by four Sea Cadets and three officers from the NWC Naval Sea Cadet Corps Division.

The Seabee Reserves' destination will be Pilot Knob ranch, where they will prepare dinner in the field, set up a defensive perimeter, and have guards posted throughout the night in a simulated tactical situation that will remain in effect all weekend.

Equipment Operator 2nd Class Tony de la Cruz will be in charge of the military aspects of the field exercise, while E01 Dick Hardwick will direct the work on three ecology projects in the area. The latter include erecting a windmill that will pump water at Pilot Knob ranch for the benefit of wildlife in the area.

In addition, the Seabee Reservists will dig out and replace water pipes leading from wells at Stone Corral and Granite Wells. The convoy leaving China Lake for the Mojave B range area will include equipment ranging from road scrapers and a low bed truck to a 5-ton van and water-carrying trucks (called buffalos).

Throughout the weekend drill, the Seabee Reservists will be in radio contact with security police and medical personnel at NWC. In the event of illness, an accident or other emergency that can't be handled in the field, a Navy helicopter can be summoned to assist.

The Seabee Reservists expect to return to China Lake at around 3 p.m. Sunday.

More than 70 invitations to witness the blast have been sent out, and a large group of observers is expected to be on hand at the Echo Range north camera station, as well as at the Randsburg Wash test control building.

Among key U.S. officials who will be on hand are Col. P. G. Kelly, chairman of the Department of Defense Explosive Safety Board (DDESB); Dr. Thomas Zaker, Research, Development, Test and Evaluation Program Director for DDESB, who laid out the requirements for the ESKIMO V test; and Russ Perkins, Director of Technical Programs for DDESB.

Important representatives of NATO nations will include Lt. Col. Helmut Congehl and Lt. Col. Dieter Bruegmann, two Army officers from the Federal Republic of Germany, who are delegates to the NATO Armaments Committee; Dr. Gerhard Guerke, from the Ernest Mach Institute of Germany; Capt. Michel Goutard, from the French Military Engineering Service, and Anton Rinnan, a civil engineer from Norway.

In addition to the NWC employees who were identified earlier as having a vital role in the preparations for ESKIMO V, others are Virgil Christenson, a section head, and Joe Winters, both from the Range Department's Telemetry Operations Branch, who have been involved in land line telemetry installations; Jack Godett, from the Air Operations Branch of Code 62, who will be responsible for special photographic coverage of the test, and Public Works Department personnel.

The latter, who had a hand in construction of concrete arches for some of the magazines, preparation of the test site, and construction work in connection with some of the test instrumentation as well as: T. K. Kahn, Lou Steinhoff, Ernie Freow, Butch Hines and Rodney Kanagawa.

## NWC has three, not two former Sloan Fellows on board

The ROCKETEER staff has learned (belatedly) that the Naval Weapons Center has on board not just two but three former participants in the Alfred P. Sloan Fellows Program.

Joel Halop, head of the Public Works Department's Maintenance Control Division, was selected to attend the executive management course offered at Stanford University in 1969-70.

His name was, however, omitted from the story published last week about Dr. Allen B. Gates, who has returned from a year as a Sloan Fellow at the Massachusetts Institute of Technology. Also mentioned in the story about Dr. Gates was the fact that B. W. Hays, head of the Ordnance Systems Department, also completed the Sloan Fellows program at MIT in 1967.

lines reported holding around the Bonita fire, a center for demobilizing the fire fighting crews was set up in Kernville and (at press time) it wasn't known how many of the smoke eaters would remain in the area to carry out what is expected to be an extensive mopping-up operation.

By Wednesday and Thursday, some of the seasonal fire fighters who were brought to China Lake for a rest were leaving NWC by air transport bound for other areas of the state where their help is needed.

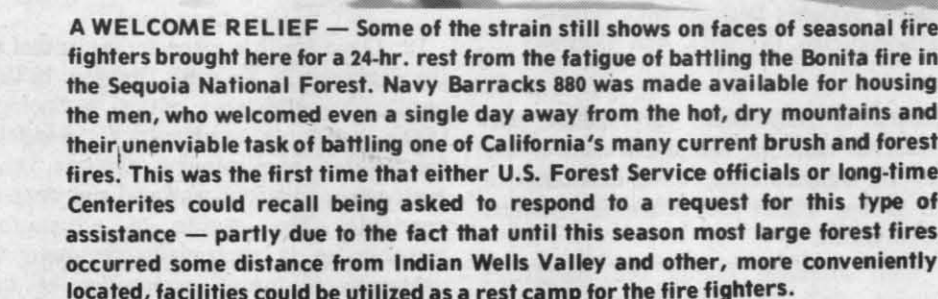
On Monday, a Sequoia National Forest fire information officer reported that there were 880 men on the fire line. They were being assisted by 15 bulldozers, 28 pumper engines, 7 air tankers (flying out of Porterville) and 6 helicopters.

Standard equipment used by the forest fire fighters in attempting to suppress the blaze include picks, shovels and chain saws as they endeavored to cut a control line around the large area within which this fire has burned.

Speaking for the Naval Weapons Center and its Fire Division, Fire Chief W. R. Knight stated: "We're just being hospitable to fellow fire fighters who are doing a fine job up there (in the mountains), and we want to do all we can to make their brief rest here as pleasant as possible."

Pengilly and Rickert returned Monday afternoon to the forest fire base camp with the first group of fire fighters who were sent back to resume battling the blaze, while Frizell remained here to serve as a liaison man between NWC officials and other fire fighters as they arrived here for a rest.

Initial plans called for continuing this shuttle service to and from the Naval Weapons Center and the fire fighting activity in the Sequoia National Forest through yesterday. However, with the fire



## Fire fighters get brief rest...

(Continued from Page 1)

athletic fields and theater. The forest fire fighters also took advantage of the opportunity to clean their clothes — using the Navy barracks' laundry equipment.

There was no structured program for the fire fighters to follow during their stay at China Lake, as they were largely left on their own to get needed rest and their meals, and utilize the recreation facilities open to them as they desired.

After six days on the fire line and in the tumult of the fire camp, the seasonal smoke eaters were transported down the mountain to China Lake for a change of scene. The procedure that was followed was to rotate the groups of fire fighters after approximately 24 hours on board the Center.

### Elite Group

The first group, which included inter-regional "hot shot" crews from the Sequoia National Forest and from the Wenatchee National Forest in the State of Washington, was accompanied by Del Pengilly, a district ranger, and Marvin Rickert, a fire prevention officer, both from headquarters of the U.S. Forest Service's Hot Springs District (near Porterville), and Bob Frizell, a recreation technician from the Hume Lake District of the Sequoia National Forest.

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Initial plans called for continuing this shuttle service to and from the Naval Weapons Center and the fire fighting activity in the Sequoia National Forest through yesterday. However, with the fire

## Vehicle check rules at Lauritsen gate changed

Effective Monday, the requirement for checking vehicles in and out through the Lauritsen Rd. gate will be changed to require all vehicles entering and leaving the range areas after 6 p.m. on normal work days to stop at the gate and be checked in or out by the guard. Logging of each vehicle will continue as currently required; that is, between 10 p.m. and 6:30 a.m. on normal work days and all day on Saturdays, Sundays, and holidays.

## AZAN Rick Lee singled out as VX-5's Sailor of Month

Aviation Maintenance Administrationman Airman Rick Lee, a native of Hoffman Estates, Ill., has been named Air Test and Evaluation Squadron Five's Sailor of the Month for July.

A member of the squadron's Quality Assurance Shop since last March, AZAN Lee's job is that of technical publications librarian. He is responsible for keeping track of over 4,000 publications and several hundred technical directives for all of VX-5. After arriving at China Lake in December of last year, he worked in the Maintenance Control and Logs and Records Branches before assuming his present position.

"I really like the work I do," says July's Sailor of the Month, "because of the fine people I work with and because I'm privy to some of the smaller details of the aircraft here. Not only that, but I get to work with the squadron's WANG computer because a list of our publications has been prepared for it."

According to his commanding officer, Capt. L. E. Giuliani, AZAN Lee assumed his duties "with minimal experience and only

one week of turn-over training," and carried out his "complicated job cheerfully and diligently, producing outstanding

results." Capt. Giuliani added that through AZAN Lee's "outstanding organizational ability and efficiency," he has contributed "significantly to the success of the squadron's mission."

The 19-year-old sailor enlisted in the Navy in July 1976, right after finishing high school in his hometown, which is a suburb of Chicago. "I liked the challenge the Navy offered me," he recalls, "because it was the opportunity to take on a non-routine job, and also to go to sea." Right now, he's thinking of making a career out of the service.

After attending boot camp at San Diego and a school at Meridian, Miss. — "really great and valuable training for me" — AZAN Lee reported to VX-5 for his first duty assignment. Single, he lives in the bachelor enlisted quarters and spends most of his free time riding around the local area on his motorcycle.

His selection as Sailor of the Month has earned him a 72-hr. liberty pass, one duty-free month, a parking spot near the hangar, a squadron plaque and a letter of commendation.



AZAN Rick Lee



# Code 32 renamed Ordnance Systems Department . . .

(Continued from Page 1)

classification of propulsion information. Dr. Thelen is assisted in these many functions by a secretary and an assistant propulsion technology administrator.

Duane Williams heads the Advanced Technology Division, Code 324, which includes four branches and several special coordination offices.

The Energy Program Management Office, (Code 32404), headed by Richard Fulmer, is primarily concerned with establishing, fostering, and supporting Center projects related to shore-based energy production and conservation systems. As the Center's efforts are expanded to include ships and aircraft energy systems (also under NAVMAT-08T), this office will serve these groups as well.

Code 32404 is presently in its formative stages and it is envisioned that the staff will remain small. As work is identified and brought on-center, it will be placed in appropriate organizations throughout the Center. This office in itself has no facilities but, instead, draws on those capabilities and facilities found at various locations at NWC.

## Current Energy Programs

Some of the current energy programs aboard the Center are NWC Energy Self-Sufficiency Studies (Codes 32404 and 3245), Geothermal Utilization and Exploration Programs (Codes 266, 3245 and 3125), Photovoltaic Power for Remote Sites (Code 3153), Heliostats Testing (Code 06322), Heat Exchanger Technology (Code 3161), Small-Scale Vertical Axis Wind Machine Demonstration (Code 3241), Conversion of Solid Waste to Gasoline (Code 3245), Low Energy Structures Program (Code 3245), Fuel Cost Escalation Studies (Code 32402), and Study on Hybrid Wind/Photovoltaic Power System for Pinon Point (Code 3941).

Hal Larsen heads the Propulsion Analysis Branch, Code 3241, as well as the Pyrotechnics Coordination Office. Typical functions of the branch include generating conceptual designs and estimating performance and mission effectiveness of cruise vehicle and missile concepts for weapon, reconnaissance, target, and remotely piloted vehicle (RPV) applications. Additionally, Code 3241 personnel provide analytical and limited experimental support in the areas of propulsion, aerodynamics, and energy conservation to development activities on-center and at other Navy laboratories. This branch also fabricates and evaluates developmental prototype components and systems.

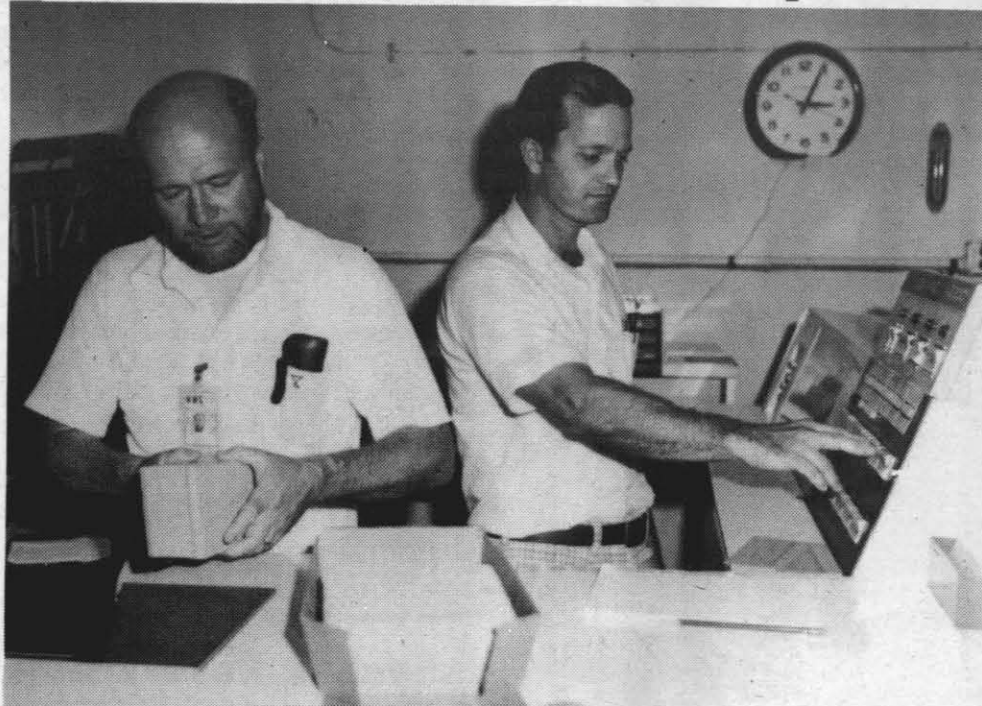
## Technical Expertise Available

Through this branch, a high level of technical expertise in selected areas of propulsion and energy conservation is kept available to the Ordnance Systems Department and the Center. Many of the projects are interdisciplinary in nature and require a concerted team effort. The organization is made up of relatively senior technical personnel having degrees in mathematics, physics, and several engineering disciplines (aerodynamics, aerospace, chemical and mechanical).

The Applied Science Branch, Code 3244, is headed by Dr. Jim Bryant. This branch is responsible for conducting applied research and engineering support of a number of interdisciplinary programs in a variety of fields, including fuels, propellants, fuel-air explosives, materials, recovery of energetic materials, gas generators, pyrotechnics, and interior and termina' ballistics.

Code 3244 employs a variety of modern facilities including laboratories, indoor ballistics test ranges, small-scale outdoor test areas, a light tunnel fully instrumented for calibrated interferometric and radiometric optical measurements, and an altitude chamber for testing at simulated altitude and velocity.

Dr. Steve Lee is head of the Applied Research and Analysis Branch, Code 3245. This branch provides analytic support to the department, conducts exploratory research in advanced areas of propulsion, and performs experimental research and systems



**EXPLORATORY RESEARCH EFFORT** — Seen loading a simulation program into the UNIVAC 1110 by means of the Ordnance Systems Department's remote satellite computer are Dick Cruise, a mathematician (at left), and Gordon LaCombe, a propulsion systems analyst.

analysis studies on energy conversion systems to be used at naval shore facilities. The expertise available within this branch includes mathematical and statistical analysis, reliability and quality engineering, program planning and scheduling, foreign propulsion technology, thermochemistry, heat and mass transfer, aerodynamics, programming and computation, information storage and retrieval, data analysis, operations research, rocket and air-augmentation combustion processes, and energy transfer, conversion, storage and systems analysis, as well as thermodynamics, fluid mechanics, and rocket plume analysis.

## Test Facilities Maintained

Code 3245 maintains test facilities to support the experimental portions of the Ordnance Systems Department's efforts in the fields of gas dynamics, rocket propulsion and combustion, and energy conversion and conservation. The branch is staffed with mathematicians, statisticians, computer programmers, physicists, and aerospace, mechanical and chemical engineers and program planners.

The Airbreathing Propulsion Branch, Code 3246, is headed by John Mahoney. This branch develops liquid- and solid-fueled ramjet missile engines to be used as the prime means of propulsion for all types of missiles. Personnel within the branch analyze, design, fabricate, assemble, install, test and evaluate complete engines and/or engine components.

The employees of Code 3246 have an excellent rapport with other ramjet engine developers and users including NAVSEA, the Air Force, NASA, and industry, as well as access to the talents, facilities and independent research and development results of each agency and company.

The branch is supported by a secretary, aeronautical and mechanical engineers, and mechanical engineering technicians. Additional branch resources include a China Lake Propulsion Laboratory research test facility of sufficient capability to test small-scale engine components and a test complex at T-range and Skytop for testing full-scale engine components and uninstalled engines.

## Role of Engineering Division

Clarence Renne heads the Engineering Division, which provides long range facilities planning to ensure proper maintenance of the capital facilities of the department. This division also provides design engineering of new facilities, equipment, and processes and provides logistics support for the department. The Engineering Division is structured into three branches.

The Ordnance Logistics Branch, Code 3252, headed by Pat Holbert, is responsible for intra-plant movement of explosives, ground burning operations, and the handling, storage, and movement of inert materials and equipment. Additionally, the

branch is responsible for vehicle and materials handling equipment control and general logistics support and assistance to all groups within the Ordnance Systems Department.

Glen Johnson heads the Facilities Branch, Code 3253. This branch provides emergency and planned maintenance, upkeep and repairs of all explosives processes, equipment, and operating facilities within the department. Code 3253 personnel also alter and modify all equipment and processes as required to meet existing, new, or modified requirements of explosives laboratories and processing operations, and they install all new processing equipment. Four shops within the branch support this effort. They are the Maintenance Machine Shop, Pipe Shop, Refrigeration and Air Conditioning Shop, and Electric Shop.

**Design Engineering Branch**  
The Design Engineering Branch, Code 3254, headed by Lou Bouclin, designs equipment and facilities for the department. The branch provides engineering drafting and drawing control and the design and submission of Navy construction, minor construction and improvements, alterations, and equipment installation projects to the Facilities Planning Board for approval and funding.

This branch serves as the central point of contact and control for all facility and equipment work requests generated within the department, and for all work to be performed within the department by Public Works. The branch handles planning, cost estimating and work scheduling for all facilities work.

The work routinely involves investigations of warhead damage mechanisms and warhead/target interaction, evaluations of the effects of various design parameters, and associated tradeoff studies. These warheads are designed to meet the constraints of all interfaces, withstand safety and environmental testing, and be effective against the specified target spectrum. Typical warheads developed in the past

## Special Consultant

Dr. Lloyd Smith is a special consultant to the Conventional Weapons Division. In this position he establishes critical technology tasks, conducts exploratory research, formulates preliminary designs, and synthesizes advanced warhead and weapon concepts. The status of advancing technologies is continually reviewed to determine if forced exploration of the technology can be incorporated in a development program for an advanced weapon system.

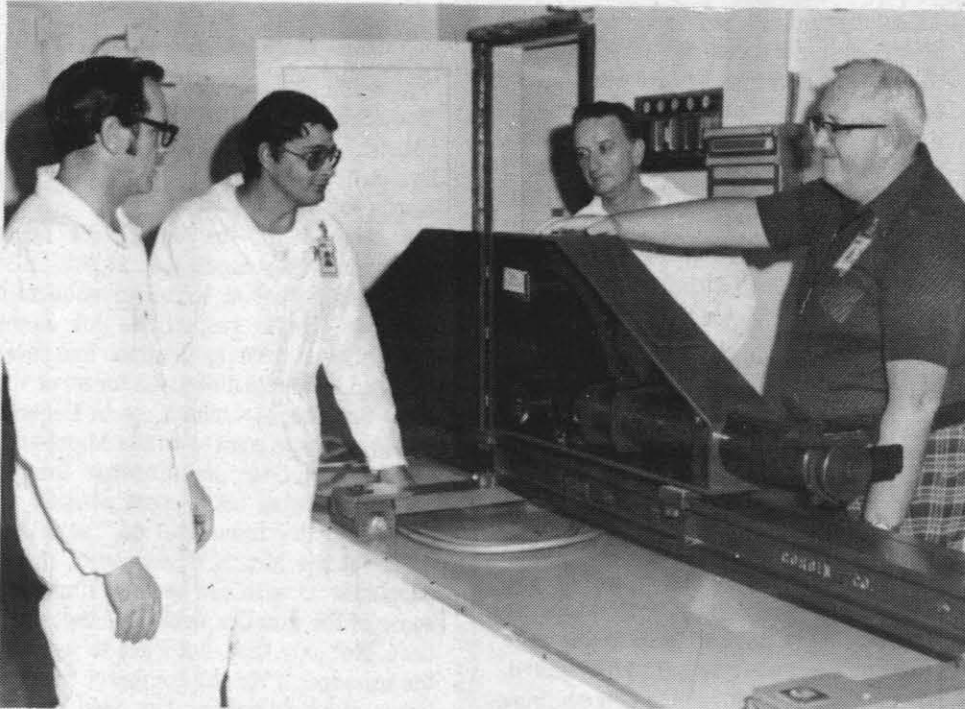
In addition, an expertise has been developed in the area of design and development of tactical nuclear and convertible warheads used in otherwise conventional weapon systems. Technical assistance is provided Center-wide on problems related to preliminary design and synthesis of advanced warhead and weapon concepts.

The Warhead Development Branch, headed by Mel McCubbin, is engaged in exploratory and engineering development of conventional warheads for rockets, missiles, guided weapons and bomblet systems. These efforts range from basic and applied research through the application and qualification of the warhead in an all-up weapon system.

## Warhead Damage Investigated

The work routinely involves investigations of warhead damage mechanisms and warhead/target interaction, evaluations of the effects of various design parameters, and associated tradeoff studies. These warheads are designed to meet the constraints of all interfaces, withstand safety and environmental testing, and be effective against the specified target spectrum. Typical warheads developed in the past

(Continued on Page 5)



**VALUABLE TOOL DISCUSSED** — Gordon Greene (at right), head of Code 32's Explosive Technology Branch, discusses operation of the ultra high speed sweeping image camera with three test technicians. They are (l.-r.) Bob Taylor, an electronics technician, and Randy Prazak and Charles Mitchell, both firing officers. —Photo by Ron Allen

The Conventional Weapons Division, Code 326, is headed by Paul Cordle. This division is supported by an assistant division head, a consultant and six branches. A principal on-going function of the office of the associate division head, Milt Burford, is the planning and management of the Navy's exploratory development efforts for air- and surface-target warheads, freefall conventional weapons, applications of nuclear technology to conventional ordnance, and aircraft gun and ammunition technology. These areas of effort are under NWC's Strike Warfare Weaponry Program.

Burford's office also provides consultation to on- and off-center DoD personnel and DoD contractor activities on problems concerning conventional weapons, with emphasis on cluster ordnance. Finally, this office is routinely assigned the responsibility for conducting new warhead/weapon concept evaluations which fall outside the normal bounds of current technology studies — namely, high-risk, high-payoff efforts.

# Summer employees handle varied tasks . . . Schools to re-open Sept. 6; details provided on student registration

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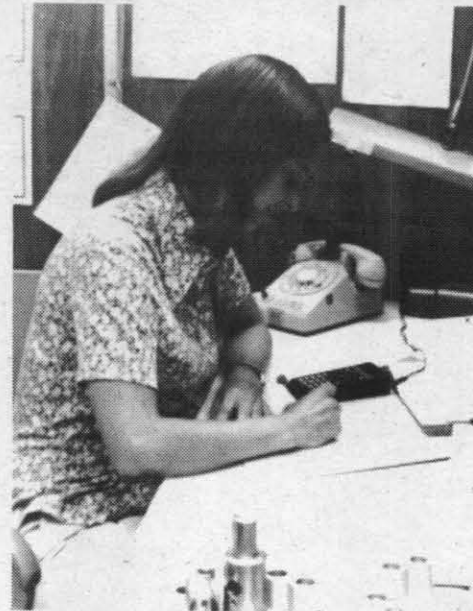
Wash, Sea Site and Land Site 2. "At school, emphasis is on theory rather than practical application," says Stoessel. "The field work here lets me apply my knowledge to actual tasks and learn many new things. Besides, I like working outside."

Employed as a recreation aide for the Special Services Division is Rick Sbrocca, a freshman at Chico State University. Planning a career in "either physical therapy or working for a municipal parks and recreation department," Sbrocca's summer duties consist of maintenance of the baseball fields, tennis courts and gymnasium. "I like working in the sun; and when you like what you're doing, it's a lot easier."

Working as a technical writer for the Special Writing Projects Branch of T.I.D. is Bev Lough, a graduate of Colorado State University with a B.A. in technical journalism. So far this summer she has been writing for the publication Current Technical Events, working with two of the branch's information systems — Collection of Archival and Reference Documents (CARD) and Retrievable Manuscripts — and finishing up an article on survivability for Naval Aviation News.

Miss Lough is hoping for a career as a writer in private industry and is considering employment with either the Data General Corp. in Westboro, Mass., The Denver Research Institute, or The American Cancer Research Institute.

"Working at China Lake is interesting because it's so big and can offer so many different kinds of experience. Coming here from Colorado was well worth the trip. My assignments not only meet the needs of the branch, but are structured to add to my



**EXACTING CALCULATIONS** — Doing data reduction of Salt Wells tests is part of Peggy Bickett's job this summer as a mechanical engineer in the Engineering Department. Beginning college as a math major, she changed to mechanical engineering when offered a research assistantship through a vibrations study program NWC was conducting with the South Dakota School of Mines and Technology.

experience and interests."

The Civil Service Commission sends announcements of summer test dates to college placement offices, Federal job information centers, and Civil Service Commission area offices. Individuals interested in applying for a summer job with Civil Service next year can fill out the proper forms in January or February of 1978. Applicants are then notified by mail of times and places where the tests will be held.

# Nominations now being sought for Fed'l Women's, Supervisor's Awards

Nominations are now being sought by the Federal Women's Program Committee for the second annual Federal Women's Award and Supervisor's Award.

These two awards will be presented during a banquet that will be one of the highlights of 1977 Federal Women's Week, and is scheduled to take place on the evening of Oct. 20 at the Community Center.

Nominations for either the Federal Women's Award or the Supervisor's Award may be submitted by co-workers or supervisors (military or civilian) directly to the Equal Employment Opportunity (EEO) Office, Rm. 110 in the Personnel Building, on weekdays until 4:30 p.m. The forms obtainable for this purpose are due no later than Sept. 23, and can be obtained from EEO coordinators in the various departments on the Naval Weapons Center, or requested by calling the EEO Office at NWC ext. 2348 or 2738.

Federal Women's Award nominees must be presently employed civilian or military women who have been working at NWC for at least one year, and who have made

significant contributions to the Center's mission or to a specific program or project.

These efforts need not be limited to a technical area, and may have been in administration, management, logistics, budget, or any other vital support areas. Contributions may have been outside of the nominee's regular duties or career series.

Nominees for the Supervisor's Award must be "people oriented" military or civilian supervisors who have been supportive of furthering the career goals of females in the work force, and who have demonstrated confidence in their female employees by creating task assignments or job restructuring which provided career growth based on ability or potential.

The nominee must have been willing to subordinate his/her own interests to permit the employee to achieve her full potential.

Criteria for the above awards and information on nominating procedures will be distributed by EEO department coordinators to all NWC departments, divisions, and branches.

# Ordnance Systems Department . . .

(Continued from Page 4)

include those incorporated in Sidewinder, Shrike, Walleye and Harpoon.

Gordon Greene heads the Explosive Technology Branch, Code 3262, which fills an intermediate role between the explosive formulation and explosives applications activities. The explosive formulators are assisted in developing the requirements for new materials and characterizing the detonation properties of their products.

The explosive component or warhead designer is assisted in defining requirements, selecting new explosive materials, and conducting test and evaluation programs on explosive components and systems. The branch also supports programs from NAVAIR and NAVSEA in the areas of explosive physics.

The branch's extensive background and understanding of explosive materials behavior is also proving valuable in

(To be continued)

# Schools to re-open Sept. 6; details provided on student registration

Information on the re-opening of schools within the Sierra Sands Unified School District, which is scheduled on Tuesday, Sept. 6, was released this week for the benefit of newcomers to the local area, as well as students who will be returning to classes for the 1977-78 school year.

Registration of kindergarten through sixth grade pupils new to the area is scheduled at neighborhood schools beginning next Thursday, Aug. 18.

Kindergarten children must be five years of age on or before Dec. 1, 1977, to be eligible to attend school during the 1977-78 year. Proof of age must be presented in the form of a legal birth certificate, a baptismal certificate duly attested, a passport, or a legally executed affidavit by the parent or guardian of the child.

Registration of seventh and eighth grade students will begin Monday at James Monroe School and Murray Junior High School.

## Burroughs High School

Summer registration of all freshmen at Burroughs High School is continuing. Parents of incoming freshmen are asked to contact the Burroughs High counseling clerk by calling 375-4476 for an appointment if their student has not yet registered.

Registration of all high school students new to the Sierra Sands Unified District will take place on Aug. 29, 30, and 31. Signups will take place at the administration building on the Burroughs campus between 8 a.m. and 3:30 p.m. on those days.

Registration of 10th, 11th and 12th grade students previously enrolled at the local high school will take place on Sept. 1.

Specific registration information will be sent by mail. If the material is not received, students should call the high school.

## Mesquite High School

Registration of students at Mesquite High School will begin on Tuesday and continue on week days through Aug. 30 at the Mesquite High School Office, 113 Felspar St., Ridgecrest.

Students 16 years of age or older may register without their parents, while those under 16 must be accompanied by a parent and will be seen by appointment only with the principal, unless they previously attended Mesquite High School.

## General Information

Pupils in grades one through twelve new to the district who are transfers from other districts or states are required to present evidence of grade placement either by report card or transfer slip.



**30-YEAR PIN PRESENTED** — NWC

Commander Capt. F. H. M. Kinley presented a 30-year pin to William E. Davis, Director of Safety and Security, at a recent Commander's meeting. Davis began his Federal career with military service from 1944 through 1946 and 1950 to 1954. His civilian government service has all taken place at China Lake where he began as a division head in the Public Works Department, and has served in increasingly responsible positions in the Propulsion Department, Aviation Ordnance Department, and Electronic Systems Department before becoming head of the Safety and Security Department. —Photo by Ron Allen

Any pupil entering a California school for the first time must present evidence of polio, rubella measles, and DPT (diphtheria, whooping cough, and tetanus) immunization or a written statement by parents requesting exemption for reasons of personal belief or medical necessity. A doctor's statement must attest to medical necessity.

If a student's polio immunization has not been initiated by the time of registration, a two-week period following admission is allowed to show evidence that the first treatment has been received. A period of 120 days is allowed to complete the immunization.

## Protection Against Measles

Any student who has not received rubella measles vaccine and has not had rubella measles may be admitted on the condition that within two weeks evidence of such immunization will be submitted.

A pupil who has received only partial DPT immunization may be admitted on the condition that within a period of not more than 30 calendar days following the date that an immunization is required, he or she receives that immunization.

A youngster who has received no immunization against DPT may be admitted on the condition that within two weeks of the date of first admission he will present evidence that he has obtained the first dose and that subsequent doses are obtained within a period of not more than 30 calendar days following the date that they become necessary.

## Physical Exams Required

All children entering first grade are required to have a physical examination. Parents may call the County Health Nurse in Ridgecrest at 375-1306 for details.

Parents who have arrived in the area during the summer and whose children participated in the summer school program are reminded that enrollment in that program does not constitute enrollment for school attendance during the regular school year.

Parents of all kindergarten through eighth grade students will receive a packet of information covering school of assignment, bus information if transportation is necessary, and other information from the school.

# Happenings around NWC

The Federal Women's Program's next Brown Bag Seminar here will be presented from 11:30 a.m. to 12:30 p.m. on Wednesday at the Community Center.

Speaker for the occasion will be Dave Mechtenberg, administrator of the Desert Counseling Clinic in Ridgecrest, who will give a talk on the DCC's history and current services. Both the clinic's one-to-one and community outreach efforts will be discussed.

Both men and women are invited to attend this event, and are reminded to bring along a sack lunch.

## Job Open at Navy Exchange

The Navy Exchange at the Naval Weapons Center has immediate openings for one full-time and one part-time vending machine routeman (NA-7408-4).

According to Lt. M.S. Barnett, Navy Exchange officer, the regular work hours are 7:30 a.m. to 4:30 p.m., Monday through Friday, for the full-time job, while the part-time job requires less than 35 hours per week. The rate of pay is \$2.97 per hour.

Application forms, which can be obtained at the Navy Exchange, must be returned no later than Tuesday.

## Library Closed Weekends

Beginning Sunday, the hours of operation at the Center library will be as follows:

Monday through Thursday, from 1 until 9 p.m., and Friday from 10 a.m. to 6 p.m.

The library will be closed on Saturdays and Sundays. These hours will remain in effect indefinitely.