

Hi-desert Escapade has something for everyone

Weeks of preparations for one of the big weekends of the year will be culminated by a multitude of activities tomorrow and Sunday during the Ridgecrest Chamber of Commerce-sponsored High Desert Escapade.

Civic, service, social and youth groups all will have a part in this gala event, which will include tours to nearby points of interest on the high desert, outdoor breakfasts on Saturday and Sunday at the Kern Desert Regional Park, a champagne brunch as a prelude to a standard flower show and wildflower display at the Enlisted Mess on the Naval Weapons Center, and a barbecue Saturday night at the Desert Empire Fairgrounds.

Plentiful rains have resulted in a bumper crop of wildflowers which those who participate in the various tours will be able to enjoy in their natural state while traveling to and from the different locations to be visited.

Four Tours Offered

Four tours are planned as a part of the High Desert Escapade schedule of events. Tour No. 1 will take in Red Rock Canyon, the Garlock fault and "Burro" Schmidt's tunnel; tour No. 2 will provide an opportunity to visit the Kerr-McGee Chemical Corp. plant in Trona, the Pinnacles and Steam Wells; and Short Canyon and the Tungsten Peak Mine will be the destination of participants in tour No. 3.

Also available to those interested is a self-guided tour of the Rand Mining District, which is the site of the famous Yellow Aster Mine and other mines that (in their day) were high producers of gold, silver and tungsten.

Old West Boom Town

Maturango Junction, an Old West boom town, will spring to life on Saturday from 11 a.m. to 5 p.m. and Sunday from 1 to 5 p.m. on the parking lot adjacent to the Maturango Museum.

This outdoor festival will feature an assay office where native rock specimens can be purchased, an old-fashioned photographic shop, a general store, ice cream parlor, and a saloon where root beer and other soft drinks will be on sale.

Maturango Junction will be complete with its own jail, and those filling the roles of lawmen will be looking for almost any excuse to incarcerate anyone who runs afoul of this comic western town's version of law and order.

Entertainment at Maturango Junction will include folk songs by Bud Sewell, who will accompany himself on the guitar; performances by Suzanne Koerschner, who will be made up as a dance hall girl of the Old West and also will operate a tattooed lady makeup booth.

In addition, there will be gymnastics demonstrations by the Ridgecrest Recreation Department's Hi-Desert Tumbleweeds and a precision flag drill by members of the Desert Suns color guard.

All proceeds from the various activities at Maturango Junction will go into the museum's building fund, and the same is true of the Rotary Club's western-style barbecue that will be served from 5 to 8 p.m. Saturday at the Desert Empire Fairgrounds in Ridgecrest.

There is something for everyone to be found among the list of activities that have



READY FOR FLOWER SHOW—Alice Hirsch, chairman of the "Bloomin' Desert" standard flower show, is joined by Sue Richards, who is in charge of publicity for this event, as they examine two different types of iris that will be included in the show. This event, one of the many activities slated as a part of this weekend's High Desert Escapade, will be held at the Enlisted Mess from 2 to 8 p.m. Saturday, and from 10 a.m. to 5 p.m. Sunday. It will be preceded by a champagne brunch tomorrow from 11:30 a.m. to 1 p.m. at the Enlisted Mess.

been scheduled as a part of this weekend's High Desert Escapade. Special events range from a Junior Olympics at the Burroughs High athletic field to a 5-mile road race staged at the Kern Desert Regional Park by the Over-the-Hill Track Club.

In addition, the Ridgecrest Kennel Club is sponsoring a children's dog show. There is to be an exhibit of mine rescue hoist equipment. Desert wildlife will be on display at James Monroe School, and the

Area IV show of Kern County Art Festival slated this weekend at Community Center

The annual Area IV show of the Kern County Art Festival will be held tomorrow, from 2 to 8 p.m., and on Sunday, from 11 a.m. to 5 p.m., at the Community Center.

For the past 31 years, the countywide Art Festival has been sponsored by the Kern County Parks and Recreation Department in Bakersfield to allow persons of all ages — students, adult amateurs and professionals — to publicly display their work and to receive recognition for it.

Admission to the show is free, but donations are accepted by the Desert Art League, which sponsors and underwrites the financial costs of the local event.

Again this year, the Art League has planned a number of demonstrations by local artists during the hours that the art show is open to the public.

On both days, weaving will be demonstrated by Jo Downing and Thom Boggs will show his skill at doing stained glass work. From 2 to 4 p.m. on Saturday, Jo Sondrup will be creating miniature paintings and (at the same time) Ethyl Ritchie

will demonstrate quilting. On Sunday afternoon, Beverly Atkins and Lisa Botka will show how batik work is made and, from 2 to 4 p.m. on Sunday, Carol Wilcher will demonstrate the silk screen process.

In addition, on Saturday and Sunday, potting techniques will be demonstrated on the patio of the Community Center by the students of Jean Donovan, a Burroughs High Evening Adult School instructor, who is in charge of the demonstrations and also an invitational arts and crafts exhibit that is not a part of the art show competition.

Miniature paintings contributed by Desert Art League members, along with miniature easels on which to display the paintings, will be on sale during this weekend event, and a snack bar will be in operation at which coffee, punch and cookies will be sold. Chairman of this year's Area IV art show of the Kern County Art Festival is Jerry Halpin, president of the Desert Art League. He is being assisted by Lorraine McClung as co-chairman.

SHOWBOAT

MOVIE RATINGS

The objective of the ratings is to inform parents about the suitability of movie content for viewing by their children.

(G) - ALL AGES ADMITTED

General Audiences

(PG) - ALL AGES ADMITTED

Parental Guidance Suggested

(R) - RESTRICTED

Under 17 requires accompanying Parent or Adult Guardian

Regular starting time—7:30 p.m.

Program subject to change without notice.

- For further information call NWC ext. 225

FRIDAY 21 APRIL

"POLYNESIAN REVIEW"

Program of authentic Polynesian songs

and dances, 8 p.m.

SATURDAY 22 APRIL

"NO DEPOSIT, NO RETURN" (111 Min.)

David Niven, Barbara Feldon

1:30 p.m. Matinee

(Comedy) Two youngsters are faced with the unpleasant prospect of spending another vacation with their grandfather (Niven) while their mother manages business affairs in Hong Kong. They concoct a scheme to fake their own kidnapping and demand a ransom from their wealthy grandfather. Part of the ransom money is to go toward plane tickets to the Orient where they hope to meet their mother and the rest will go to two men who were conned into helping them. (G)

"TWILIGHT'S LAST GLEAMING" (144 Min.)

Burt Lancaster, Richard Widmark

(Drama) Futuristic political intrigue is the focus of this film. Air Force General Lancaster has seized a SILEO 3 missile base demanding ten million dollars ransom and the publication of the truth behind the Vietnam war. (R)

SUNDAY 23 APRIL

"THE SLAP" (123 Min.)

Isabella Adjani, Annie Girardot

(Comedy-Drama) At 18, it's time for Isabella to move out of her father's home. The two of them have both funny and serious moments as they try to bridge the generation gap. (PG)

WEDNESDAY 24 APRIL

"DEATH RACE" (85 Min.)

Yul Brynner, Martin Balsam

(Action-Drama) Peter Maricani (Brynner), a professional assassin living in New York, is offered an opportunity to avenge his brother's death. Maricani flies to Milan to put his plan into action. The Mafia learns of Maricani's arrival and dispatches two men to eliminate him. (R)

FRIDAY 25 APRIL

"AUDREY ROSE" (113 Min.)

Marsha Mason, Anthony Hopkins

(Horror-Drama) The father of 5 year old Audrey Rose, who was burned alive with her mother in Pennsylvania in 1965, is seen lurking around the school of Marsha Mason's daughter in 1976. He contacts Mason and her husband and tells them that he believes their daughter Susan to be the reincarnation of his own daughter, Audrey Rose. Susan is hypnotized to bring out the truth. (PG)

SATURDAY 26 APRIL

"THE BLUE BIRD" (98 Min.)

Elizabeth Taylor

1:30 p.m. Matinee

(Fantasy) A brother and sister are visited at night by an old crane who commissions them to find the blue bird of happiness. He leads them to imaginary characters, confusion and the realization of where to fulfill their dream mission. (G)

COM regrets cancelling

Membership Night plans

The management of the Commissioned Officers' Mess regrets that due to lack of sufficient reservations it was necessary to cancel membership night this evening.

If this had not been done, the COM would have sustained a loss of over \$400.

Please accept the apologies of the COM management for any inconvenience that may have been caused.

The COM will be open for patrons' dining pleasure this evening, featuring its regular menu in addition to live music from 9 p.m. to closing.

U.S. Government Printing Office:

1978 - No. 122

From:

PLACE

STAMP

HERE

To:

nwc rocketeer

Naval Weapons Center
China Lake
California

April 21, 1978

Vol. XXXIII, No. 16

Plans announced for observance of Armed Forces Day

Plans are well under way for the Naval Weapons Center's observance of Armed Forces Day, which is to occur locally on Saturday, May 13.

An educational and entertaining time for the entire community is planned, with a band concert and picnic on the lawn in front of the Administration Building, static displays at Armitage Field, an automobile and boat show, and a slow-pitch softball game among the events on the agenda.

The NWC Armed Forces Day Planning Committee is chaired by LCDr. Ed Brooks, Assistant Technical Officer (Surface), Laboratory Directorate; vice-chairman of the committee is Lt. Bill Wilson, head of the Targets Maintenance Branch of the Aircraft Department.

Beginning with a presentation of colors by the NWC Sidewinder Drill Team, the day will include the traditional pancake breakfast, prepared by the Ridgecrest Kiwanis Club. Also scheduled are an open house at the new branch clinic of the Navy Regional Medical Center, an expanded display of missiles and other ordnance in the main lobby of Michelson Laboratory, and continuous film showings in the Panamint Room of the Community Center.

Aircraft To Be Displayed

Displays at Armitage Field will include ten different types of aircraft being flown in especially for the occasion. A variety of educational displays in Hangar Three will also be set up for the enjoyment of visitors.

The popular community-wide picnic on the Administration Building lawn, a local tradition since the nation's bicentennial celebration in 1976, this year will feature the "now" sounds of Sonora Del Mar, the eight-piece Navy San Diego Band, as well as some outstanding local bands and musical

(Continued on Page 3)

AGAN R. D. Van Winkle singled out as NWC's Sailor of Month

Aerographer's Mate Airman R. D. "Rip" Van Winkle is the Naval Weapons Center's Sailor of the Month for March. The 20-year-old outstanding enlisted man is assigned to the Naval Weather Service Environmental Detachment (NWSED).

AGAN Van Winkle is a weather observer and his duties involve observing, recording and transmitting weather observations as well as serving as the NWSED's Administrative Petty Officer and Training Petty Officer, a task usually assigned to a higher rating.

In the letter recommending him for the Sailor of the Month award, AGAN Van Winkle was cited for his reliability, outstanding performance of duty, ingenuity and competence.

The nomination reads, in part: "Van Winkle is an asset to the Navy as well as to this Command, and he has gained the respect and admiration of all who have come in contact with him."

On weekends, he is responsible for keeping Center officials advised of any hazardous weather conditions that might threaten the area, and he assists the duty forecaster in compiling technical data required for daily forecasts and for flight weather briefings.

AGAN Van Winkle was also cited for his participation in the All Faith Chapel choir and for his off-duty studies in connection with advancement in rate, as well as his

Soldering Technology Branch specializes in electronic component failure analysis work

Finding problem "needles" in electronic "haystacks" is the task of the Failure Analysis Section of the Product Assurance Division's Soldering Technology Branch.

Aided by microscopes, which can enlarge 1,000 times optically and up to 40,000 times electronically; X-ray equipment and other sophisticated devices, failure analysis specialists search for virtually undetectable flaws in wiring boards and the component parts mounted on them.

The breakdown of a weapon system can sometimes be traced to a rupture in a wiring board lead or some other minuscule flaw that is a fraction-of-a-millionth of an inch in size.

Huge Savings Possible

Early detection of these defects can save hundreds of millions of dollars. In one case, the Center's failure analysis sleuths traced a malfunction to a seven-layer wiring board costing \$24,000 with components.

The problem was a crack in a copper wire printed circuit connection, and the wire was a millionth-of-an-inch thick. Although more than 5,000 of the boards were on order, less than 800 had been produced when the flaw was discovered—a potential savings of several million dollars.

"Presently we are discovering defects that are built into the hardware, after the fact," Jim Raby, branch head, said. "But, we are striving to eliminate defects before the fact."

Seminar Conducted

To this end, personnel in Raby's branch conducted a soldering technology seminar last month for representatives of industry and the military to improve the quality of workmanship and upgrade the state of the art of soldering—a principal consideration in electronic failure analysis.

When a failure occurs in a weapons

system, the suspect part is sent to the local failure analysis laboratory where tests uncover the cause of the malfunction.

The problem is isolated in either the wiring board or one of its mounted component parts. If the wiring board is causing the problem, the defect sometimes has to be isolated from thousands of minute connections and leads in the printed circuits on multi-layer boards.

The first step is to immerse the board in molten solder at 500 degrees F. to test the board at this high temperature and to fill the many holes—into which the component parts are mounted—for inspection purposes.

Next, the boards are cut through at suspected holes or wire runs to permit microscopic examination of these micro-sections. In the case of the defect described above, the tiny crack was expanding and contracting under fluctuations in temperature to cause intermittent failure.

Difficult To Diagnose

On-again-off-again malfunctions are difficult to diagnose, according to Gerald Inman, a quality assurance specialist.

"When there is an immediate failure, it is usually possible to locate the problem without too much difficulty. But with intermittent failures, you can't always be sure that something is wrong," he said. Like going to a dentist and when you get there the pain is gone, "You can't tell him where it hurts," he said.

Raby said that much of the failure in electronic systems can be traced to a lack of cleanliness.

Cleanliness Highly Important

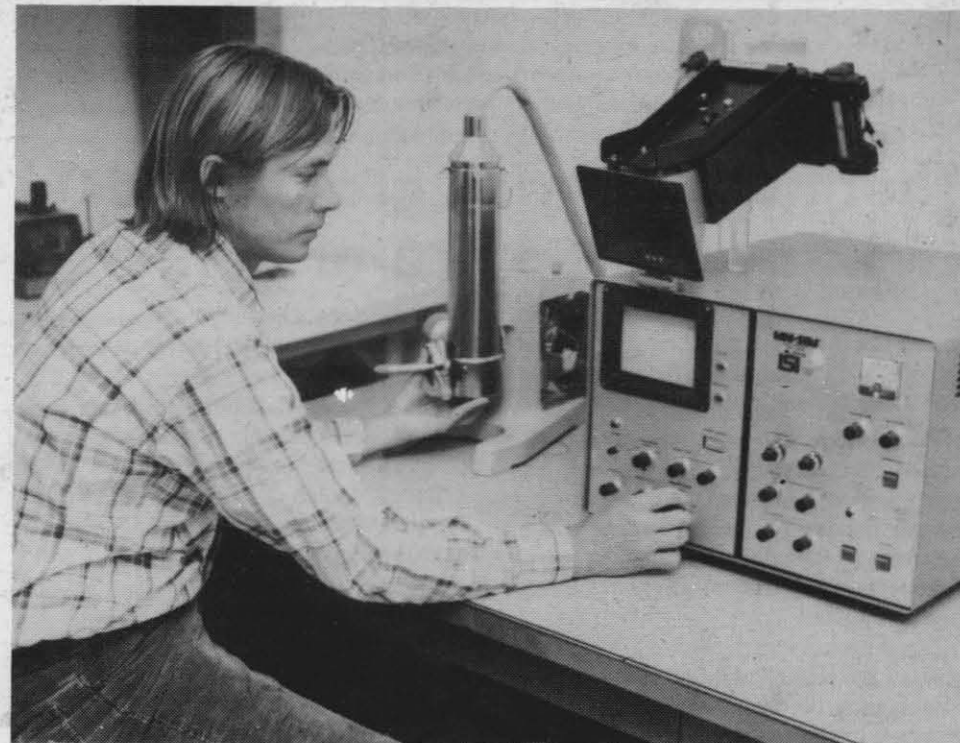
"The emphasis on cleanliness is going to grow to a proportion we've never seen," Raby said. "It is ultra-important in the hardware production cycle."

Despite the high reliability and technical competence of contract manufacturers, failures occasionally occur because of an error in the manufacturing process or a lack of processing guidelines, Raby said.

When the defect is discovered, local failure analysis personnel show the manufacturer how to correct the problem and other manufacturers how to avoid it.

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ELECTRON MICROSCOPE—Ken Eder, an electronic technician in the Soldering Technology Division's failure analysis section, adjusts the lab's scanning electron microscope. The microscope can enlarge flaws in electronic wiring boards and their component parts up to 40,000 times. —Photos by Ron Allen

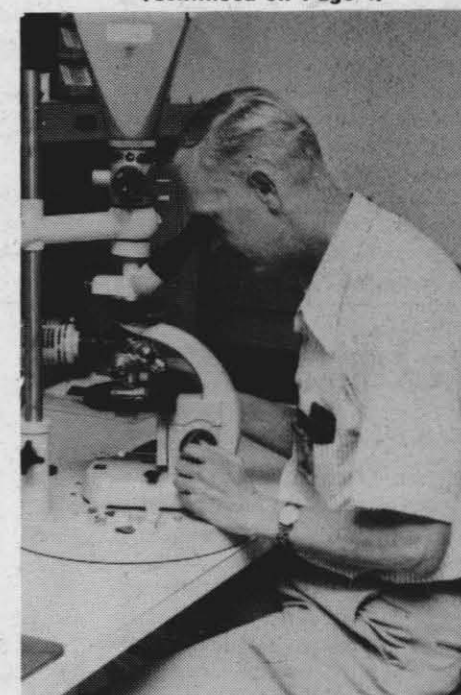
quality assurance specialist on wiring boards, writes: "Most of the problems experienced during the normal procurement cycle of sophisticated weaponry occur in the electrical fabrication shops."

The article describes brittle copper plating, poor plating and poor soldering as some major reasons for wiring board failures.

"These problems will result in fractured solder connections . . ." and other electrical flaws because of "stress and environments that components of a modern defense system must go through."

Things that technicians might normally consider insignificant are vitally important in fabricating defense system electronic components, according to Brittain's article. This includes nicked leads or leads that

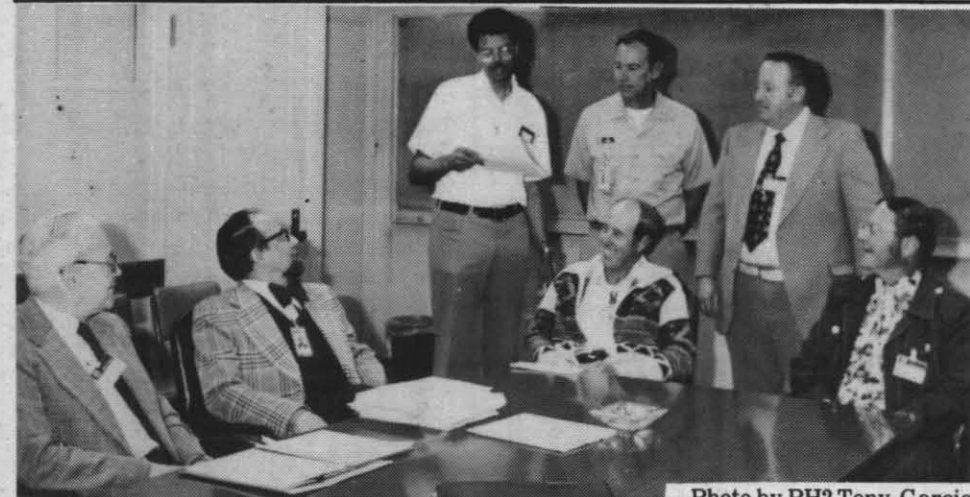
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VISUAL ENLARGEMENT—Engineering technician Roger McCollough examines a microsection cut from a wiring board for possible defects on the failure analysis laboratory's optical microscope, which can magnify a part being examined 1,000 times.

High Desert Escapade schedule of events

Event	Day & Time	Place	Event	Day & Time	Place
Kiwanis Club Pancake Breakfast	Sat. & Sun. 7-11 a.m.	Kern Desert Regional Park	School Room Murals	Sat. & Sun. 10 a.m.-3 p.m.	James Monroe School
Interdenominational Church Service	Sunday 8-8:45 a.m.	Kern Desert Regional Park	Maturango Junction	Saturday 11 a.m.-5 p.m.	Maturango Museum
Desert Tour No. 1	Sat. & Sun. 8 a.m.-1 p.m.	Red Rock Canyon, Garlock Fault, "Burro" Schmidt Tunnel	"Bloomin' Desert"	Saturday, 11:30 a.m.-1 p.m.	Enlisted Mess
Junior Olympics	Saturday 8:30 a.m.-1:30 p.m.	Burroughs High athletic field	Champagne Brunch	Saturday 1-3 p.m.	Desert Empire Fairgrounds
5-Mile Desert Road Race	Saturday 9-11 a.m.	Kern Desert Regional Park	Tricycle Race	Saturday 1-3 p.m.	Desert Empire Fairgrounds
Mine Rescue Hoist Exhibit	Saturday 9 a.m.-1 p.m.	Kern Desert Regional Park	Frisbee Throwing Contest	Saturday 1-3 p.m.	Desert Empire Fairgrounds
Desert Tour No. 2	Sat. & Sun. 9 a.m.-2 p.m.	Kerr McGee Chemical Corp., the Pinnacles, Steam Wells	Standard Flower Show	Saturday 2-8 p.m.	Enlisted Mess
Desert Tour No. 3	Sat. & Sun. 9 a.m.-12:30 p.m.	Tungsten Peak Mine, Short Canyon	Wildflower Show	Saturday 2-8 p.m.	Enlisted Mess
Desert Tour No. 4	Sat. & Sun. all day	Rand Mining District	Art Show	Saturday 11 a.m.-5 p.m.	Community Center
Children's Dog Contest	Saturday 10 a.m.-2 p.m.	Kern Desert Regional Park	Rotary Club Barbecue	Saturday 5-8 p.m.	Desert Empire Fairgrounds
Seat Belt Safety Demonstration	Saturday 10 a.m.-1 p.m.	Kern Desert Regional Park	Gem, Mineral Display	Saturday 5-10 p.m.	Desert Empire Fairgrounds
Desert Wildlife Display	Sat. & Sun. 10 a.m.-3 p.m.	James Monroe School	Astronomy Observations	Saturday 6-30 p.m.	Desert Empire Fairgrounds
			Western Musical Entertainment by the Reinsmen and Doc Denning	Saturday 8-10 p.m.	Desert Empire Fairgrounds



—Photo by PH2 Tony Garcia

THERMAL BATTERY MEETING—Host Milton Ritchie (in white shirt) opens the Joint Deputies for Laboratories Committee Subpanel on Thermal Batteries meeting held at the Center on April 5 and 6. Other conferees are standing, left to right, LCDr. Edward Brooks and Richard Marsh; seated, left to right, Walter Kuper, Dr. Aaron Fletcher, Louis Pracchia and Bruce Van Domelen.

Thermal batteries group holds two-day conference at Center

The Naval Weapons Center was the setting for a recent meeting of the Joint Deputies for Laboratories Committee (JDL) subpanel on Thermal Batteries.

During the two-day conference Wednesday and Thursday, April 5 and 6, fourteen representatives of the military and private industry made presentations; discussed thermal battery research, development and technology; and presented position papers.

The meeting was hosted by Milton Ritchie, of the NWC Engineering Department Engineering Services Division's Materials Engineering Branch.

A highlight of the meeting was a report by Dr. Aaron Fletcher, head of the General Research Branch of the NWC Research

Department's Chemistry Division, who is conducting a research project on advanced thermal battery technology.

The purpose of the meeting was to exchange information, coordinate project efforts and prepare reports for the chief of logistics of each of the Armed Services on the progress of thermal battery research and development.

Ritchie, who gave a report on hazardous and critical materials, is in charge of an NWC project concerned with thermal battery manufacturing technology.

LCdr. Edward Brooks, NWC Fleet Support Officer, welcomed the group, the other members of which were —

Louis Pracchia, NWC Code 3636; Mort Kuratori, NWC Code 3245; Bruce Van Domelen and Rod Quinn of Sandia Laboratories; Walter Kuper of Harry Diamond Laboratories; R. A. Marsh of the Air Force Aero Propulsion Laboratories;

Roy Arnold, J. W. McCauley, A. E. Magistro and Burton Werbel, representing Army research and development organizations; 2nd Lt. Norbert Tagge, Air Force Materials Laboratories; and May Chan, NWC Code 3852.

The subpanel meets on an unscheduled, when required basis. This is the first meeting it has held at the Naval Weapons Center.

Stargazers to set up 'scopes at fairgrounds

A free public planet party will be held on Saturday evening by the China Lake Astronomical Society beginning at 6:30 at the north side of the Desert Empire Fairgrounds in Ridgecrest. This event will be held as a part of the High Desert Escapade.

Weather permitting, telescopes will be set up for visitors to view the planet Saturn with its rings, the planet Jupiter with its satellites, and also the moon, which will be full tomorrow night.

Although viewing of the bright planets will be best during twilight, viewing will continue throughout the evening.

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 972, Ext. 2669. 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 996 or 997). Advertising positions in the Promotional Opportunities column does not preclude the use of alternate recruiting sources in filling these positions. As part of the rating process, a supervisor appraisal will be sent to the current supervisor and the most recent previous supervisor of those applicants rated as basically qualified. The Naval Weapons Center is an equal opportunity employer and selection shall be made without discrimination for any nonmerit reason. The minimum qualification requirements for all GS positions are defined in CSC Handbook X-118, while those for all WG, WL and WS positions are defined in CSC Handbook X-118C.

Clerk-Typist, GS-322-4, PD No. 7445096, Code 3247 — Applications from status eligibles will be accepted. This position is located in the Terrain Denial Weapons Branch, Conventional Weapons Division, Ordnance Systems Department. Branch is located in Bldg. 60, behind the Technical Information Center. As branch secretary, incumbent types clean rough draft or final copy of technical reports, letters and statistical tables from handwritten or rough draft. Receives and refers telephone calls and visitors; writes intro-center memoranda, and letters of transmittal; processes both incoming and outgoing mail; maintains files, serves as custodian for classified branch material. Job Relevant Criteria: Ability to type with speed and accuracy; knowledge of security procedures concerning classified documents; skill in interpersonal relationships; ability to perform a wide variety of clerical/secretarial functions (filing, mail handling, travel arrangements); ability to communicate correctly and concisely in writing.

Physical Science Technician, GS-1311-7/8/9 PD No. 7832025N, Code 3244 — (Promotion potential: GS-10) Incumbent mixes explosives based on mix component percentages known to him or supplied by a senior chemist. Determines the required curing time and selects equipment necessary for safe processing. Prepares oven and control set up, and monitors curing process. Compiles data and analyzes it to see if the formulations will meet the objectives defined by senior chemist. Job Relevant Criteria: Knowledge of safety procedures associated with explosives; knowledge of mixing, forming, and testing of explosives and/or propellants; skill in written and oral communication.

Chemist, GS-1320-11/12, PD No. 7832023E, Code 3244 — This position is located in the Explosives Formulation Branch, Conventional Weapons Division, Ordnance Systems Department. Incumbent conducts applied research and experimental development to produce explosives having the chemical and physical characteristics needed for existing or anticipated future weapons. Studies the properties of new ingredients of formulations, with special emphasis on safety, stability, reactivity, and combustion characteristics. Investigates new fuels, binders and oxidizers, and new combinations of these ingredients for their effects on density, energy, and overall performance of solid propellants and explosives. Job Relevant Criteria: Knowledge of explosives formulations or chemical investigations pertinent to explosives; ability to plan and execute several complex research and development projects concurrently; ability to communicate correctly, clearly, and concisely, both orally and in writing.

Moldmaker (Plastics), WG-4251-10, JD No. 117-1, Code 3272 — Incumbent fabricates experimental rocket nozzles, nozzle plates, heat barriers, motor case liners, etc., from thermoplastic and thermosetting compounds. Sets up molds and dies for making various shapes; makes test runs, and

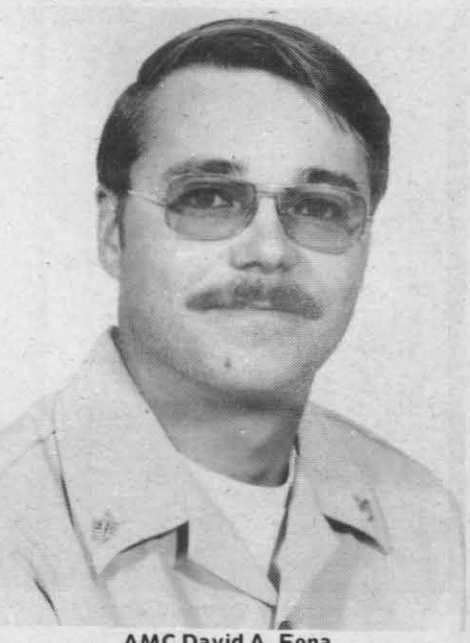
David Fena initiated into ranks of Navy chief petty officers

Chief Aviation Structural Mechanic David A. Fena was initiated into the hallowed rank of chief petty officer recently during initiation ceremonies at the CPO Club.

AMEC Fena is a veteran of 16 years of Naval service. He is assigned to Air Test and Evaluation Squadron Five's aviator's equipment shop where he specializes in the repair and maintenance of aircraft emergency systems.

Chief Fena reported to China Lake in January after three years with Fighter Squadron 161 aboard the carrier USS Midway on duty in the Far East.

He and his wife, Janet, and their three sons—Cyle, 14, David, 11, and Kevin, 4—are living aboard the Center.



AMC David A. Fena

diagnoses and remedies causes of failure and defects. Performs plastic molding operations of all types. Mixes, blends, homogenizes, and combines various combinations of plastics, powdered metals, and ceramics. Job Relevant Criteria: Ability to do the work of the position without more than normal supervision; ability to follow blueprints and other instructions, knowledge of machines and equipment; knowledge of molder (plastics) materials; ability to correct defects.

Clerk-Typist, GS-322-3/4, PD No. 7545128Am, Code 3241 — The position is that of secretary in the Propulsion Analysis Branch, Advanced Technology Division, Ordnance Systems Department. The incumbent performs secretarial and clerical office duties including: reception of visitors and phone calls; typing of official technical and business correspondence, reports, memoranda, travel orders and procurement requests; maintaining branch office files; timekeeping; and other duties as assigned. Job Relevant Criteria: Ability to type accurately and efficiently using an IBM MAG Card Selectric Typewriter; ability to organize and process the required work without close supervision; and ability to work harmoniously and effectively with others.

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

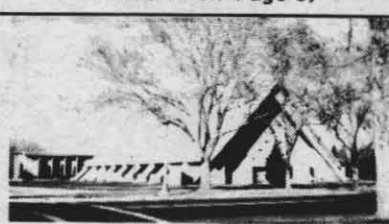
Secretary, GS-318-4/5, PD No. 7508073, Code 083 — This position is located in the Budget Division Office, in the Office of Finance and Management. The incumbent is responsible for providing administrative/clerical support to the supervisor; maintains calendar, files, etc.; reviews and directs incoming mail to the appropriate official; prepares routine correspondence, schedules meetings and conferences, and arranges travel. Job Relevant Criteria: Must be familiar with Navy correspondence format and files; knowledge of Center organization and policies; must be proficient typist; must be able to screen inquiries and solve problems with limited amounts of guidance.

Lead Payroll Clerk, GS-544-5/4, PD No. 7708074, Code 0844 — This position is located in the Payroll and Labor Distribution Branch in the Accounting and Disbursing Division, Office of Finance and Management. The incumbent's responsibilities are to maintain controls on leave and payroll; supervise the pay and leave operation and to serve as liaison and control point between payroll section and groups submitting time and accounting operation. Disbursing and Personnel. Job Relevant Criteria: Basic knowledge of payroll and accounting systems; basic knowledge of financial and mechanized accounting systems/regulations; thorough knowledge of payroll computation as it relates to processing an employee's paycheck or final pay.

Mail/File Clerk, GS-305-2/3, PD No. 7808007, Code 0662 — This position is located in the Branch, Financial Operations Division, Office of Finance and Management. Incumbent receives and distributes incoming mail and computer batch inputs; files and answers phone; and aids accounting personnel within the branch. Job Relevant Criteria: Ability to index and file; ability to work independently; and ability to work with others.

Multitask Operator (Total Copy System) Foreman, WP 4417-54, JD No. 571, Code 23431 — This position is located in the Reprographics Section, Printing and Reproduction

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DIVINE SERVICES

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

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

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

CONFESSIONS
Daily 1115 to 1130
Saturday 1615 to 1645
Sunday 0800 to 0825

RELIGIOUS EDUCATION CLASSES
Sunday First thru 6th grades 1015
Sunday Pre-school & kindergarten 1115
Sunday seventh & eighth (Junior High) 1900
Above classes are held in the Chapel Annexes across from the former Center Restaurant.
Sunday evening Nine 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

Burros lose 2. . .

(Continued from Page 6)

outfield.

In their last time at bat, the Antelopes added four more runs on four hits for extra insurance. Kempken, the winning pitcher, picked up a pair of RBIs on a single that scored runners from second and third base to make the final score 7-1 in favor of Antelope Valley.

Against Palmdale on Tuesday, the Falcons got nine hits in the first three innings as they jumped off to an 8-0 lead.

Big man at the plate for Palmdale was Tim Gudim, who followed Randy Kutcher's lead-off double in the first inning with a single that drove in Kutcher. Before the dust had settled at the end of the first inning, two more hits (both singles) resulted in two more tallies for the Falcons.

In the second inning, Gudim connected for a home run with a man on base as he picked up his third RBI of the game. That turn of events, combined with one more run in the second and two in the third frame put the game out of reach for the Burros.

Trailing 8-0, the local high school nine came to life after two outs in the sixth inning. Frank Meyer singled and, following walks to Randy Radcliff and David Cane, the Burros had the bases loaded. Jim Peck then came through with the second of just three hits in the game for the locals—driving in Meyer and Radcliff with the only runs of the game for BHS.

During their turn at bat in the sixth, the Falcons scored one more time on a double by Kutcher, who then stole third base and tallied on an error when the throw from the catcher to third base sailed out into left field.

Softball tourney...

(Continued from Page 6)

Torrance Warriors, 5-2, at noon on Saturday; and then defeated the NWC varsity squad, 8-0, before being eliminated from the tourney as a result of their 2-1 loss to Reno Toyota.

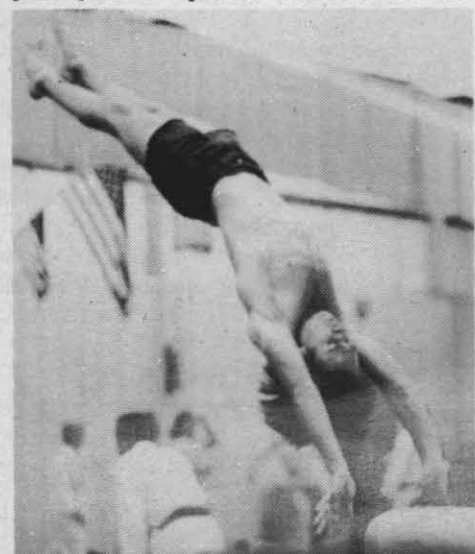
The NWC varsity was eliminated in short order due to a 6-2 loss on Friday night to the Misfits of Bakersfield, and an 8-0 shutout at the hands of the Ridgecrest Raiders.

Fisher Plastering, another team from Ridgecrest, won its first tournament game, 7-1, over the Sabre Refinery Tigers from Bakersfield, but then drew two tough opponents — Ed Smith Welding and the Reno Toyota team — and was knocked out of the tourney by scores of 12-2 and 8-0, respectively.

Local gymnastics teams to combine efforts in staging fund-raising show April 28-29

The City of Ridgecrest Hi-Desert gymnastics team and the Burroughs High School gymnastics teams will present their annual combined gymnastics show on Friday and Saturday, April 28 and 29, at 7:30 p.m. in the Burroughs gymnasium.

The show will feature some of the valley's outstanding gymnasts in difficult compulsory and optional routines on the



READY FOR SHOW — Phil Wilson, a member of the Burroughs High School gymnastics team, practices vaulting from the long horse in preparation for the gymnastics show that is to be presented at 7:30 p.m. on Friday and Saturday, April 28 and 29, at the BHS gym.

Employee in the spotlight

This week's Employee in the Spotlight is a modern pioneer who has opted for a Cessna 170A over today's steel-encased, motor-driven version of the covered wagon.

Richard N. Johnson, a Code 3954 electronics technician, and his wife, Kay, gave up the smog and hustle of urban life nearly 15 years ago for the peace and quiet of the Sierras. However, they have turned to the airplane to preserve their seclusive life style.

The Johnsons live at Kennedy Meadows, a mountain valley about 50 miles northwest of China Lake. Every weekday morning, like any other average family, Dick gets ready for work, and so does Kay (she's a school librarian in Inyokern); and their two sons, Robert, 16, and Jeffrey, 14, get ready for school.

But, after breakfast, instead of Dick and Kay driving off to their separate offices and Bob and Jeff hopping on their bikes to pedal to school, they all go to their neighbor's airstrip, pre-flight their Cessna and take off for Inyokern airport — a 15-minute flight away.

At Inyokern they pick up their car which

Plans to organize intramural golf league announced

The call is out for teams interested in competing in an intramural golf league at the China Lake golf course.

The competition is open to China Lake Golf Club members who have established Southern California Golf Association handicaps. Teams, composed of seven members (four players and three alternates) are asked to appoint a captain and turn in their team name and roster at the golf course clubhouse by 6 p.m. on Sunday, April 30.

Intramural golf league play is scheduled to begin at 5 p.m. on Tuesday. If at least 12 teams are organized, the league will play on Tuesdays and Thursdays — otherwise competition will take place on Tuesdays only, Paul Someson, pro at the local golf course, stated.

Someson also urged local golfers to sign up for the blind bogey tournaments that are being held every Saturday at the China Lake golf course. Registration, which is being handled by the staff at the golf course pro shop, is being taken on the day of play.

Local gymnastics teams to combine efforts in staging fund-raising show April 28-29

The City of Ridgecrest Hi-Desert gymnastics team and the Burroughs High School gymnastics teams will present their annual combined gymnastics show on Friday and Saturday, April 28 and 29, at 7:30 p.m. in the Burroughs gymnasium.

The show will feature some of the valley's outstanding gymnasts in difficult compulsory and optional routines on the

vaulting horse, balance beam, uneven and even parallel bars, high bar, mini-trampoline, and floor exercise mat. Comedy routines, created by the gymnasts themselves, will provide some light moments as well as demonstrating the perfect body control that the exercise of gymnastics develops.

Proceeds of the show will be spent for gymnastics equipment for the use of hundreds of youngsters in the local area. The Gymnastics Booster Club will be on hand during intermission both evenings to sell homemade desserts. In addition, the Booster Club will hold a Dime-a-Dip dinner on Friday, April 28, from 5 to 7 p.m. in the Burroughs High multipurpose room.

Money raised by this gymnastics support group not only helps toward the purchase of expensive gymnastics equipment, but it also helps defray expenses for out-of-town judges who officiate at local meets, and for travel and other costs involved in away-from-home meets.

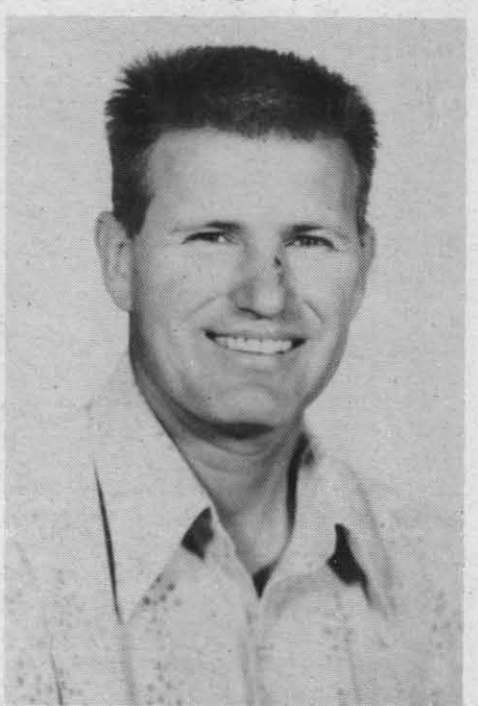
Tickets for the combined gymnastics show are now being sold by the individual gymnasts from both teams and by members of the Booster Club, which is headed by Barbara Barthle as president.

Ticket prices are \$1.50 for adults and students, 75 cents for senior citizens and children from 6 to 12. Children under 5 years of age will be admitted free of charge.

is permanently parked at the airport. Dick drops Kay off at her school, Bob at Burroughs High and Jeff at Monroe Junior High.

In the evening, they all drive back to Inyokern, and Dick flies the family home. Dick said that for no particular reason Kay always flies in the morning. They both took flying lessons at the same time and both got their private pilot's licenses on the same day five years ago.

Dick said that flying daily to work is much



Richard N. Johnson

more relaxing than fighting the logging trucks on the Kennedy Meadows road and the traffic on the highway.

It costs about the same when you consider total driving expenses and takes less time, if you don't add in the pre-flight time. However, in the winter and during bad weather, sometimes it takes about as long in the air as it does by road, Dick said.

Dick and Kay moved to Kennedy Meadows in 1962, right after Robert was born. They had bought an acre and three-fourths of land, and after spending a vacation there, Kay said she didn't want to go back to their Los Angeles home.

So, they stayed, built a 12-by-14 ft. cabin and lived in it for four years. At first, Dick had no job, the cabin had no electricity, and Kay washed diapers everyday on a washboard in a galvanized tub.

Dick did odd jobs, worked for a Ridgecrest gas station, for the U.S. Forest Service as a fire fighter and, then, for a logging company until he was employed as a laborer at the Naval Weapons Center in December 1963.

The following year, he entered the electronics mechanics apprentice program (he was an electronics technician in the Navy) and eventually became an elec-

tronics technician.

Dick said that in those early days at Kennedy Meadows, "I guess you'd say we lived about as close to the way the pioneers did as you can get in these modern times."

In 1968, they moved into a partially completed three bedroom house, which they are building themselves and haven't finished yet. "We're too busy playing and flying around," Dick said. "We build when we feel like building."

But when they moved into the house, they got the idea to take up flying. After giving up the cabin, Dick and Kay kept close to nature by going on camping trips. A favorite campsite was near a desert landing strip.

Idea Takes Root

One day, a plane landed on the strip, and the 65-year-old pilot had only taken a short time to fly in from Petaluma near San Francisco. It had taken the Johnsons nearly five hours to drive to the spot from their much closer home.

"If he can do it, why can't we?" Kay said. So, Dick looked into the possibility of taking flying lessons through the China Lake Flying Club. She decided to learn, too, and took lessons at Inyokern airport. After they became pilots, they bought their Cessna six months later.

It took them about six months to get their licenses; not because they had to take that long, but because they paid as they learned. "Most people, if they looked at the end cost, wouldn't learn to fly. You have to just say, 'Well, it'll cost \$25 this week and \$25 next week,'" Dick said.

"Money isn't everything; in fact, it isn't anything — as long as we have food and enough to support the airplane," he said.

Last year, the Johnsons flew 10,000 miles up to and around Alaska and back home. Instead of taking the normal flight track by following the Alcan Highway, they flew the hazardous inland passage.

Decided on Bold Venture

"People said we couldn't do it. So, we asked, 'Have you ever tried?' When they said, 'No,' we decided to do it," Dick said. It was a rough flight in pouring rain everyday. "We had to have a lot of confidence in ourselves and our airplane. And, we did," Dick said.

They want to move to Alaska someday, and when they do, they are going to pick a spot that can only be reached by air and dog sled.

"Kennedy Meadows is getting too crowded. When we first moved there, there were only two families. Now there are about 40 people. My wife says that she can understand why the pioneers kept moving on," Dick said.

"Other people move in, and pretty soon, there are too many!"



QUALIFIED 'ECHO DRIVER'—LCDr. J. J. Kerr, (in center) Air Test and Evaluation Squadron Five's Projects Officer, receives a model of an A7 Corsair II and shoulder patches designating him an "Echo Driver" and qualified to pilot the advanced A7E. The presentation was made by the Vought Corporation's local senior representative, Arnold Vang (right), and Capt. L. E. Giuliani, VX-5 Commanding Officer. Although LCDr. Zerr qualified in the A7E while test pilot at the Naval Air Station, Patuxent River, Md., before his assignment to VX-5 in January, the presentation was made here on March 16.

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Recreation Round-up

Youngsters offered six-week class in weightlifting

A six-week class in weightlifting for youngsters in the sixth through eighth grades will be held on Fridays from 4:30 to 6 p.m. at the Center gym, beginning next Friday, April 28.

During this class, which is to be taught by Les Robinson for the Special Services Division, emphasis will be placed not only on body building, but also on the proper techniques for using equipment in the weight room.

Membership in the Youth Center is a prerequisite for enrollment in this class. Registration is being handled at the Youth Center on weekdays from 2 to 7 p.m. and on Saturdays from 1 to 5 p.m.

Additional information can be obtained by calling Carol Hape at NWC ext. 2909.

Some Gym Facilities To Be Closed

The men's showers and the steamroom at the NWC gym will be closed on Monday and Tuesday while water pipes are being repaired.

The swimming pool and basketball/volleyball court will remain open for regular use during this time.

BHS varsity nine still winless in Golden League play

Still looking for their first Golden League win of the 1978 season after eight consecutive defeats, the Burroughs High School varsity baseball team will host its counterparts from Saugus High this afternoon in a game that will start at 3:30 p.m.

The Centurions from Saugus High are one of three teams that edged the Burros by a single run in the first half of the league season.

This past week, as the second round of league action got underway, the BHS varsity baseballers were clipped 7-1 on Friday by the visitors from Antelope Valley High School, and then dropped a 9-2 decision to the Palmdale Falcons on Tuesday at Palmdale.

Dan Kempken, pitcher for Antelope Valley, struck out 15 Burros' batters in the seven-inning contest played here last Friday, and that in itself just about tells the story of the game.

The Burros averted a shutout when a hit by Jim Peck, third baseman for the locals, was misjudged by the Antelope Valley right fielder, who let the ball drop in front of him and then roll to the fence after bouncing over his head.

This enabled Peck to circle the basepaths for an inside the ball park home run which turned out to be the Burros' only score of the game. Peck got two other hits in the game (both singles) and thus became the only BHS varsity baseball player to get three hits in a single league game this season.

Peck's home run gave the BHS team a short-lived 1-0 lead in the bottom of the fourth inning, but the Antelopes evened things in the fifth frame when Kirk Walker singled and was forced in on three successive walks.

The Antelopes took a 3-1 lead by scoring two runs on three hits in the sixth inning. Rick Pompa started things off with a double, and Kempken drove him in with another two bagger. A bunt single by Jeff Conrad moved Kempken to third base and he tallied on a sacrifice fly ball hit to the

(Continued on Page 7)

Bakersfield team wins Early Bird Softball Tournament

The Ed Smith Welding team from Bakersfield walked off with top honors and the lion's share of trophies for both team and individual effort in the Don Chieze Early Bird Softball Tournament played at China Lake last Friday, Saturday and Sunday.

The tournament sponsors decided to dedicate this tourney to Chieze, the present Mayor of Ridgecrest, for his long-standing interest in youth sports of all kinds and the local softball program in particular. The event itself was staged as a fund-raiser for the Indian Wells Valley Pony League.

Enroute to the tourney title, the Welders from Bakersfield demonstrated the advantage of having four previous tournaments under their belts as they romped to five straight victories, including a 11-0 win in the championship game against the Reno Toyota team, defending International Softball Congress champs for 1977.

For the players from Reno, however, this tourney was their first competition of the 1978 season and that factor, coupled with the cold wind and rain that spoiled the tournament weatherwise, made it a real struggle for the ICS title holders.

The Reno team lost its first tourney tilt on Saturday morning, 5-3, to the Hires Market team from Lancaster, and then proceeded to work its way up through the losers' bracket of this double elimination event to end up in the championship game on Sunday afternoon.

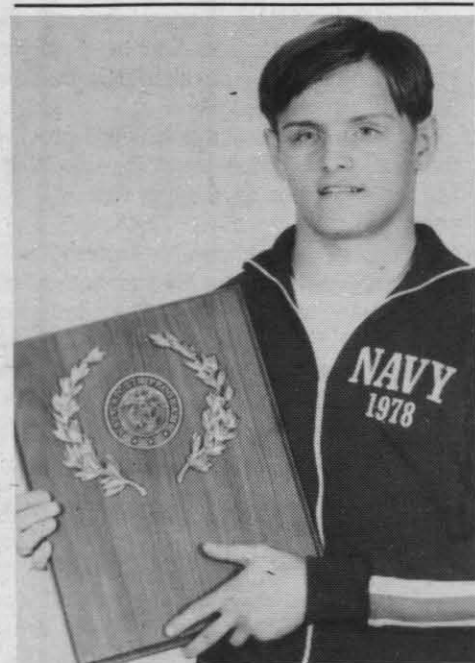
Tourney's Top Players

Tournament officials singled out J. R. Pelfrey as the tournament's most valuable pitcher, and John NesSmith, third baseman, as the tourney's most valuable player. Both are members of the Ed Smith Welding team. Second and third place trophies were garnered by Reno Toyota and Hires Market teams, respectively, while the tournament sportsmanship trophy was won by the Misfits from Bakersfield.

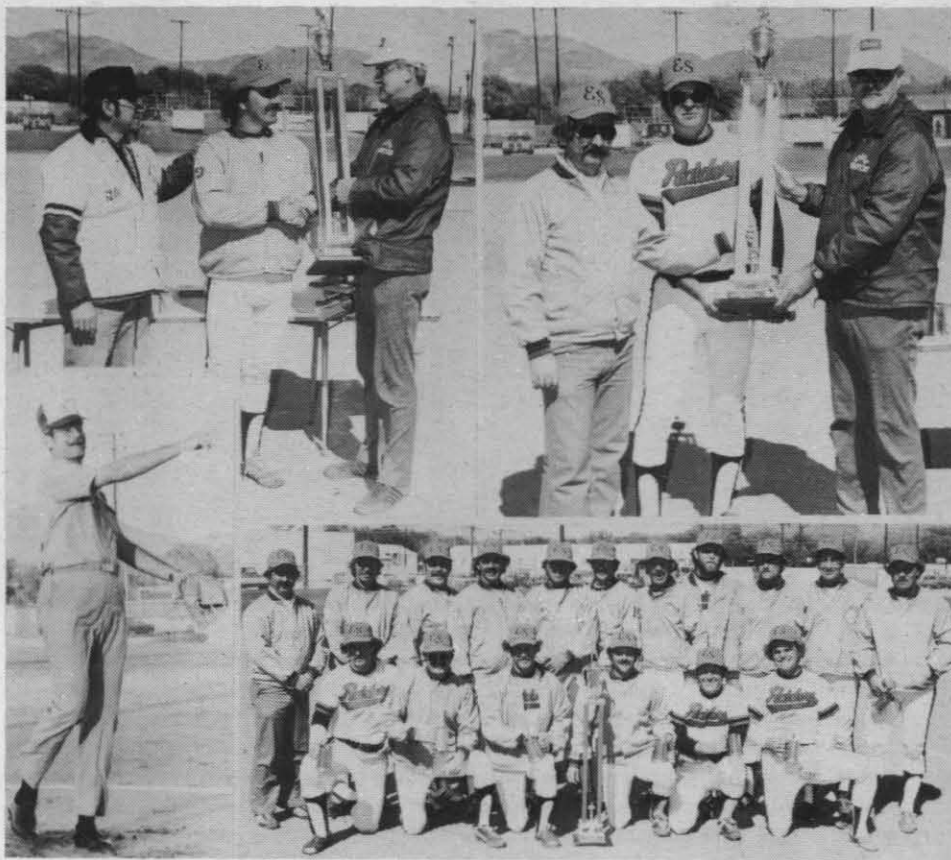
The Ed Smith Welding team began its march to the tournament title with a 12-2 win over Fisher Plastering of Ridgecrest on Friday night. NesSmith hit three home runs and had a total of seven RBIs in that game.

Two more wins were picked up on Saturday by the eventual tourney champs as they shut out the Las Vegas Jets, 8-0, and beat Hawthorne, Nev., 11-2.

Winding up the tourney in grand fashion for them, the Welders from Bakersfield



NAVY GRAPPLER — AOA Morris Schultz, a sailor assigned to the Ordnance Shop of Air Test and Evaluation Squadron Five, wears the jacket he received and the plaque he was awarded for being chosen to represent the Navy in the Interservice Wrestling Championships held recently at Quantico, Va. Schultz, who wrestles in the 114½ lb. class, placed fourth in Greco-Roman style and fifth in the freestyle events at Quantico. The VX-5 sailor was a member of the all-Navy team which finished third in the interservice meet. For three weeks prior to competing in Virginia, Schultz attended a training camp in San Diego in preparation for this event.



CHINA LAKE HOSTS SOFTBALL TOURNEY—An invitational softball tournament that was the first of the year for most of the teams entered was held here last weekend. After the opening pitch by Capt. F. H. M. Kinley, NWC Vice Commander, (lower left photo) got things underway late Friday afternoon. The Ed Smith Welding team from Bakersfield proceeded to take charge and emerged as the undefeated tourney champs. Members of the victorious team are shown at lower right with the individual mugs each player received. In photo at top left, John NesSmith, 3rd baseman for the Welders from Bakersfield, is flanked by Lowell Radcliff (on left) tourney director, and Don Chieze, Ridgecrest Mayor, as he was awarded the tourney's most valuable player trophy. A teammate, J.R. Pelfrey (not pictured) garnered the most valuable pitcher trophy. At top right, Mayor Chieze awarded the tournament championship sponsor trophy to Ed Smith (on left) and Ron Chambers, manager of the tourney champs.

posted two more shutouts on Sunday as they knocked off Hires Market of Lancaster, 8-0, and then clobbered the Reno Toyota team, 11-0.

The Ed Smith Welding vs. Reno Toyota tourney title clash was a scoreless affair until the top of the fifth inning when the Welders tallied 5 runs, added 4 more tallies in the sixth and another 2 for good measure in the top of the seventh and final frame.

NesSmith had a home run for Ed Smith Welding in the championship game, and a teammate, centerfielder Carl Johnson, picked up four hits in four trips to the plate to lead the assault on the Reno Toyota team.

After losing its opening game of the tournament, the Reno Toyota squad played three more games on Saturday and racked up wins over Fisher Plastering of

Ridgecrest, 8-0; the Ridgecrest Raiders, 2-1, and Hawthorne, Nev., 9-0.

The Reno team took advantage of errors to score two unearned runs in the fifth inning of the game with the Ridgecrest Raiders, and that turned out to be enough of an edge to win a hard-fought, 2-1 game.

In two games played Sunday morning, the Reno squad eliminated the Las Vegas Jets, 2-0, and the Hires Market team, 13-5, before collapsing in the tournament title tilt in which they were shut out, 11-0, by the Ed Smith Welding team from Bakersfield.

Of the three local teams entered in this 16-team tourney, the Ridgecrest Raiders had the best record. They won their tourney opener, 7-2, on Friday night against the King Neptune team from Bakersfield; lost to the

(Continued on Page 7)

Nat'l Div. teams continue to battle on even terms in Youth Soccer League

An early season trend of playing games that have all ended in tie scores was continued last Saturday in the National Division of the Youth Soccer League.

The Rogues and Atoms battled to a 1-1 standoff at Davidove Field, while in a pair of American Division contests the Eagles came from behind to edge the Eagles, 3-2, and the Spirits moved into first place by shutting out the Thunderbirds, 3-0.

In their 1-1 tilt with the Atoms, the Rogues tallied the game's first goal when a corner kick that was carried by the wind was misjudged by Atom goalie Danny Grattan.

The ball landed between three players for the Rogues, who were quick to take advantage of this miscue to collect an easy score.

Shortly before halftime, the Atoms tallied their one and only goal of the contest. John Andre, right wing, booted the ball to center forward Pat Smith, who rammed it into the goal for the Atoms.

Neither team could muster a scoring threat for the remainder of the game.

In the Eagles vs. Cobra game, the Eagles got off to a 2-0 lead before the Cobras' offense began to click. An assist by Billy Hugo, who fed the ball to Jimmy Kight accounted for the Cobras' first tally, and Scott Hamilton took advantage of a penalty kick that was assessed for handling the ball

to boot home another goal for the Cobras. Late in the game, Hugo got into the scoring act for the Cobras with a game-winning goal that made the final outcome 3-2 in favor of the Cobras over the Eagles.

After a slow beginning, Kyle Blecha and David Brown played good defense for the Cobras, while Sean Freyne and Kerri Corzine helped to generate the offense that led to the Cobras' win.

In game No. 3 last Saturday between the Spirits and the Thunderbirds, both teams battled to a scoreless draw in the first half. During the second half, which was played in steady rain, Jason Monks booted a goal that gave the Spirits a 1-0 lead, and Kevin Featherston tallied two more times to wrap up the 3-0 shut out victory for the Spirits.

The goalie position for the Spirits was shared by Scott Parmenter, Monks and Featherston, all of whom received excellent protection from defenders Vince Caffee and Chris Junker.

In Youth Center Soccer League games scheduled tomorrow at Davidove Field, it will be the Cosmos vs. the Atoms at 9 a.m., Thunderbirds vs. Apollos at 10:30 a.m., and the Spirits vs. Eagles at 11:30 a.m.

Following the three youth matches, the China Lake adult Soccer Club will play Edwards Air Force Base. The game will begin at 1 p.m.



NEW CORSAIR TRAINER—Cdr. Larry Chrans (right), NWC's Deputy A7-E Program Manager, and Lt. Tommy Van Brunt, the Center's Walleye Project Officer, prepare to board the new TA-7C, two-seat Corsair trainer in the background. The plane is the first of 60 being remodeled from older versions of the A-7 by the Vought Corp. and is undergoing operational flight and operational evaluation test programs here.

—Photo by PH2 Tony Garcia

Navy's first two-seat Corsair trainer undergoing tests here

The Navy's first TA-7C two-seat Corsair trainer has been delivered to the Naval Weapons Center, where it is undergoing operational evaluation tests and an operational flight program is being developed for the aircraft's onboard computers.

The modified light attack bomber was flown here from Dallas, Tex., where the Vought Corp. is remodeling 60 older versions of the A-7 into the new trainers. It was delivered by Cdr. Larry Chrans, NWC's Deputy A7-E Program Manager, and Lt. Nick Johnson, VX-5's Assistant A-7 Systems Officer.

A-7As and A7Bs are being cut in half and stretched an additional 34 inches to accommodate the second seat. Converting the older planes into the trainers is saving the Navy \$5 million dollars over the cost of building a new airplane.

Advantages of 2-Seater

At present, when pilots are learning to fly the A-7E, they are followed by an instructor flying a second aircraft. With the two-seat trainer, the instructor will occupy the rear seat, cutting fuel consumption in half, reducing the number of planes required for transition training, and improving the efficiency of the training.

Although the TA-7C retains most of the physical characteristics of the original A-7, besides being longer it is also four inches higher. The extra height results in a slight banana-like curvature in the fuselage which is necessary for proper tailpipe clearance on landings and takeoffs.

The trainer can carry the same ordnance as the A-7E and has the same computerized navigation and weapons delivery system, including the head-up display (HUD) and projected map display.

However, software programming must be modified to conform with the TA-7C's training mission.

The HUD permits the pilot to receive flight information via letters and symbols as he watches the target through his gun-

sight. In the TA-7C, an onboard closed-circuit TV system permits the instructor to monitor the student pilot's HUD presentation from the rear seat.

The instructor does not have all of the weapons control switches in his TA-7C cockpit, but lights indicate when the student pilot has moved a switch enabling a station to release bombs or fire rockets or missiles.

Armed Forces Day...

(Continued from Page 1)

Although barbecue facilities will not be provided this year, tables will be set up for family picnicking, with the Burroughs Band Boosters and Indian Wells Valley Music Parents Club on hand to sell soft drinks, pies and cakes.

A special-interest vehicle display in the parking lot of the Administration Building will feature everything from elaborate custom-built automobiles to antiques, classics, and race cars. Custom boats, motorcycles, and vans will also be displayed. Entries for this display are now being accepted; further information may be obtained by calling Tom Jones, phone 446-7000, or from Carl Johnson, at NWC ext. 2950.

Special Lunch Planned

A delicious Armed Forces Day lunch at the Enlisted Dining Facility will be served to ticket-holders. Since a great demand for tickets is expected, plans are under way to sell all tickets in advance of the event.

Beginning a new tradition, the first annual NWC vs. VX-5 slow-pitch softball game will be played at Schoeffel Field to decide the initial possessor of an Armed Forces Day softball trophy.

The day's festivities will conclude with a country-and-western dance at Joshua Hall in Ridgecrest, sponsored by the Indian Wells Valley Century Football Association. In a gesture of appreciation on this special occasion, active duty military personnel will be admitted to the dance free of charge.

Expert on treatment of snake bites offers advice to desert dwellers

"Going barefoot while walking your dog at night is far more dangerous than hiking, fishing or boondocking," says Dr. Findlay Russell, a world-renowned expert on snakebites. "Over 90 percent of the people in California who get bitten by poisonous snakes each year are within city limits when it happens."

Dr. Russell, who is both director of the Laboratory of Neurological Research at the County-USC Medical Center in Los Angeles and director of the Toxicology Laboratory at Portal, Ariz., recently spoke to a group of medical and emergency personnel at a seminar held locally.

The seminar was sponsored by the local Mojave Green Project whose personnel gather venomous reptiles to send to Dr. Russell for use in medical work.

"It's best not to get bitten," Dr. Russell wryly noted. He said that the majority of snakes are nocturnal, that most bites occur during the period between March 15 and Nov. 15, and that the bites received early in the season are generally from young snakes and are the worst. The majority of bites occur in housing areas near the edge of cities where the snakes and the people overlap.

However, he added, of the 45,000 bites each year in the United States, only 12 resulted in death last year.

Get Victim to Doctor

Any snakebite, he said, should be considered a medical emergency, and the person bitten seen as soon as possible by a physician. Since venom is a complex poison, antivenin should be given only by a physician because the antivenin can trigger shock reactions that need specialized medical care.

If a person who is bitten is less than 30 minutes from a hospital or doctor's care, Dr. Russell recommends (as first aid treatment) that the victim be kept lying down, warm, comfortable, and calm. He or she should then be transported to a hospital as soon as possible. Preferably the part of the body that is bitten (usually the arm or leg) should be immobilized at heart level.

If the victim is more than an hour from the hospital, and the bite is on a hand or foot, arm or leg, a constricting band should be tied above the wound. This band, preferably a wide band rather than a shoelace, is not a tourniquet, Dr. Russell emphasized. It should be tied only tightly enough to limit the lymph flow just under the skin.

Most snake bites are very superficial, according to Dr. Russell, with the venom

being injected less than ¼ of an inch under the skin.

If the decision is made to try to get some of the venom out through suction, shallow cuts (not more than ¼ inch long and ¼ inch deep) should be made right through the fang marks, and suction applied. Only 10 to 15 percent of the venom can be removed by suction, Dr. Russell stated, but even that small amount can sometimes make the difference between life and death for a victim.

"Never use ice on a snakebite," the speaker emphasized. "Most of the amputations following snakebites that I've had to perform have been because of treatment with ice rather than because of the effect of the venom."

Dr. Russell again expressed appreciation to the Mojave Green Project personnel for the snakes that are captured locally and sent to his laboratory because fractions of the venom milked from these snakes is used in the treatment of more than 100 different diseases, as well as to produce antivenin for individuals who are allergic to the horse serum used in commercial antivenin.

Park vans, other work vehicles on east side of clinic

Effective immediately, persons driving government vehicles to the Naval Regional Medical Center Branch Clinic should park in reserved spaces on the east side of the clinic, near the emergency entrance.

These are parallel parking spaces, and it will be easier for drivers to park vans, pickups and other work vehicles without creating a safety hazard.

Because of the blind spots created by these larger vehicles when they are parked in patient parking areas, the possibility exists that drivers of civilian cars might back into approaching vehicles or pedestrians.

Senior Chief Hospitalman Wayne Hartman, the clinic's assistant administrative officer, said that he hopes this new parking arrangement will eliminate this safety hazard.

He said that violators will not be cited, but instead, notes reminding them to use government vehicle spaces will be placed on their windshields in the hope that personnel concerned will cooperate.

Chief Hartman said that he believes that the four reserved spaces will be sufficient to handle the number of government vehicles parked at the clinic at any one time.



OUCH!—Dr. Findlay Russell (far right), points to the fangs in a mounting of the head of a snake as he describes the effects of snakebite to (l.-r.) Ron Britz, a physician's assistant, Chief Warrant Officer James Jewell, and Rick Meier during a recent seminar on treatment of snakebites. Britz and Meier are members of the local Mojave Green Project whose members capture live snakes and send them to County-USC Medical Center in Los Angeles for medical research.

CONSERVE ENERGY

ENERGY "HOT TIP"—In addition to the added comfort, home insulation is a good financial investment. For example, \$1,000 invested in high grade tax exempt municipal bonds will return about \$60 per year. However, \$1,000 invested in ceiling and northwest wall insulation, exposed heating, ventilation, and air conditioning ducting, and storm windows will return an average of \$95 per year in reduced fuel bills at current fuel and insulation costs. Additionally, the initial investment will be recovered immediately if the home is sold because insulated homes are valuable assets in an energy-short environment. Call the Energy Answer Man at NWC ext. 3741 for solutions to your household energy problems.



COMBINED COAST GUARD, NAVY LEAGUE MEETING—Dianne Murray and L. Cdr. John F. Ebersole, USCG, cut a cake commemorating the 23rd anniversary of the Indian Wells Valley Council of the Navy League of the United States. Ms. Murray is president of the local Navy League Council, and L. Cdr. Ebersole is Coast Guard Auxiliary director for the 11th Coast Guard District. He was featured speaker at the joint meeting of the Navy League and Coast Guard Auxiliary, which was held last week at the CPO Club. Fourteen auxiliary members, 42 Navy Leaguers and six guests attended what was the first combined meeting of the IWW Council of the Navy League and Flotilla 76 of the Coast Guard Auxiliary.

Animal control incidents on Center decrease

Animal control activities in the residential areas of the Naval Weapons Center decreased during 1977 in nearly all categories reported, according to information received from the NWC Safety and Security Department.

The following comparisons between 1977 and 1976 reveal that the number of dogs impounded by the Indian Wells Valley animal control officer dropped from 679 to 549. Of this number, 183 subsequently were released to their owners or adopted last year, compared to 276 during 1976.

The number of dogs picked up at China Lake that were destroyed totaled 365 in 1977, which is down from the total of 413 put to death in 1976.

There were fewer cats impounded (331) in 1977 than during 1976 when the number totaled 448, but a much higher percentage of cats than dogs were destroyed at the animal shelter. In 1977, this figure was 329, compared to 444 in 1976.

More cats or dogs (70) were found dead at China Lake by the animal control officer during 1977, than was the case in 1976, when there were just 61 such incidents reported. Persons with animal control problems during weekdays from 8 a.m. to 5 p.m. can leave a message at the Ridgecrest Police

Systems Acquisition course applications now being accepted

Applications are now being taken for a course in Introduction to Systems Acquisition that will be held at the Training Center on May 4-5 and May 11-12.

This course, which is to be taught by Cdr. Al Crosby, of the Naval Postgraduate School at Monterey, Calif., provides students with an overview of the systems acquisition process, its underlying philosophies and concepts, and its application in the Department of Defense and the Navy.

Topics to be covered will include the acquisition environment, Congressional role, program managers, source selection, negotiation, contracts and related management considerations, and program control.

Emphasis will be placed on management considerations critical to successful program planning and execution.

Employees interested in attending this course, which is a part of the Program Manager Program, must submit an NWC training request and authorization form via proper department channels in time for it to reach Code 094 no later than Monday.

New ordinance in Ridgecrest restricts giving away animals

Center residents should be aware that the Ridgecrest City Council has approved a new ordinance concerning the regulation of the sale and giving away of animals in public places at its meeting of March 15. The ordinance will go into effect today, which is 30 days after its publication on March 22.

Supported by Mert Davis, the animal control officer, the ordinance was first brought before the City Council on Feb. 15 by Mr. and Mrs. Donald Gay and formally presented on March 15.

The ordinance forbids the sale, barter or give-away of live animals to be used as pets or novelties upon any street, sidewalk, or other public place in the City of Ridgecrest.

Although Mrs. Pat Gay initiated the original wording of the ordinance, based upon information supplied to her by the attorney in charge of animal regulations at the Los Angeles City Attorney's office, the City of Ridgecrest staff prepared the final form of the ordinance.

The ordinance allows the sale of animals at licensed pet shops, kennels, aviaries, and fish hatcheries but has no effect on sales outside the city limits.

Joseph Hilpert, Western Regional

Director of the American Humane Society, from Los Angeles, spoke before the City Council in support of the proposed ordinance on March 1.

Research by the American Humane Society shows that while such impulse animal acquisitions are made with good intentions, often the person who accepts such an unplanned pet does not fully realize the extent of the responsibility and expense involved.

Unfortunate Cycle Perpetuated

According to the Humane Society, this can result in an unfortunate circumstance which perpetuates the cycle of unwanted and roaming pets.

To help citizens comply with the ordinance, numerous free "home finding" resources are available in the Indian Wells Valley for persons who wish to place pets in good homes.

The NWC Animal Shelter maintains a list of animals not physically at the shelter but being held in caller's homes. Prospective pet owners may receive these names and addresses from the shelter by calling 939-3190.

Ads Run at No Cost

The Daily Independent newspaper runs free pet ads of 15 words or less for three days.

The Inyokern News-Review also accepts free pets ads of 25 words or less. The Swap Sheet runs animal ads of 10 words or less for \$1.50.

The two local animal hospitals—the Ridgecrest Animal Hospital on East Bowman Rd. and the Indian Wells Veterinary Hospital, 5631 Inyokern Rd.—post on their bulletin boards 3 x 5 cards with photos of available pets.

Other local businesses which maintain lists of available pets are: Four Paws Pet Center, Casa K-9 Kennels, and The Country Feed Barn.

Navy Exchange has new Personalized Services Center

The Navy Exchange has opened a new Personalized Services Center at the south end of the NEX Service Station.

Services previously located in the Main Exchange include optical, engraving, key duplication, plant sales, and rentals, as well as watch, camera and shoe repairing. Gift wrapping remains in the main store.

The new center also offers a previously unavailable laundry and dry cleaning service with four-to-seven day service.

Rental items will include television sets (including color), refrigerators, automobiles and gardening equipment, such as rototillers. These items are not available now, but should be in a few weeks, Lt. M.S. Barnett, Navy Exchange officer, said.

The new center places all personal services in one location and provides more space for expanded operation, Lt. Barnett added.

He also said that he hopes laundry and dry cleaning service time will be reduced in the future.

Operating hours for the Personalized Services Center are 10 a.m. to 5:30 p.m., Monday through Friday, and 8:30 a.m. to 2:30 p.m. on Saturday.

Patronage is open to all active duty and retired military personnel and their dependents.

Rock music gp. returns to entertain at CPO Club

"Sounds of Country" will perform again at the Chief Petty Officers' Club tonight and tomorrow night from 8:30 to 12:30.

The three-man group features a lead fiddler playing the currently popular rock-country music sound.

Dinner will be served from 6 to 9 p.m. with a choice of prime rib or Icelandic cod tonight and the seafood platter tomorrow.



PUBLIC SCHOOL PROCLAMATION SIGNED—A proclamation designating April as "Public Schools Month" was signed on Thursday of last week by Rear Admiral William L. Harris, NWC Commander, and Don Chieze, Mayor of Ridgecrest, in support of this annual observance sponsored by Masonic Lodges throughout the State of California. Present for the ceremony were Opel Anders (at right), master of the Indian Wells Valley Masonic Lodge, and Jim Pryor (at left), junior warden. A reception honoring public school teachers and administrators will be held next Wednesday, April 26, starting at 7 p.m. at the IWW Masonic Lodge in Ridgecrest. Open house programs also are being held at local schools as a means of acquainting students' parents and all interested persons with the curriculum, facilities and varied programs offered by the Sierra Sands Unified School District. —Photo by PH2 Tony Garcia

Promotional Opportunities . . .

(Continued from Page 2)

Branch, Graphic Arts Division, Technical Information Department. The function of this position is to schedule and assign the work of the Reprographic Section. Trades supervised are Xerox machine operator, multilith operator (Total Copy System), and bindery worker. Supervision involves preparing job estimates, resolving scheduling problems, inspecting finished work, and assigning overload work to Navy authorized contractors. Work involves record keeping on equipment, materials, and production. Duties include technical responsibility for the trades supervised and supervisory responsibility for granting leave, evaluating performance, maintaining discipline and morale, etc. Applicants must possess enough knowledge and ability in the following elements to perform the duties of the position in the trades supervised. Job Relevant Criteria: Demonstrated ability to supervise; knowledge of printing and reprographic equipment; technical practices of the trade; knowledge of materials, and specifications. File supplemental Qualifications Statement with Code 094. Forms may be obtained in the Personnel Bldg., Rm. 206, Ph. 2676.

File applications for the above with Tina Rockdale, Bldg. 34, Rm. 206, Ph. 2676. Equipment Specialist (General), GS-1670-11, PD No. 7834040E, Code 3655 — Position is located in the Engineering Department, Technical Data Division, Logistics Document Control Branch. Incumbent manages the logistics supply support for complete weapons subsystems. Assists in preparing the supply support section of the Integrated Logistics Support (ILS) plan and serves as element manager for supply support on the ILS team for various weapon components. Incumbent is responsible for providing technical direction in research, writing, data programming, and publishing of formal and internal provisioning data, and for determining and publishing integrated logistics support planning on complete weapons and equipment systems. Is responsible for training government and contractor personnel in the provisioning and logistics approach dictated by a particular weapon system and/or contract specification requirements. Incumbent maintains close liaison with management personnel at Naval Air Force Station, and manages the plants. Job Relevant Criteria: General engineering knowledge and understanding of air-launched missiles, conventional free-fall weapons, and electronic and mechanical ground support equipment. General background in logistics planning and parts provisioning, with experience in the practical applications of this knowledge. A broad knowledge of engineering drawings and military specifications and standards is required. Promotion potential: GS-12.

General Engineer, GS-801-12, PD No. 7834043E, Code 34, Rm. 204, Ph. 2925.

Clerk-Typist, GS-322-3, PD No. 7839022N, Code 3956 — This position is located in the Monopulse Design and Evaluation Branch, RF Division, Weapons Department. This position is in the Joiner shop of the Public Works Department. The incumbent constructs, installs, and repairs cabinet work, furniture, displays, models, and similar items. May construct and install doors, door jams, locks, sash, screens, screen doors, picture frames, sinks and counter tops, and may perform minor framing and construction. Lays out work, cuts, saws, joins, nails, glues, and assembles lumber and allied material in repair of broken objects and in construction of new equipment. Job Relevant Criteria: Ability to do the work without more than normal supervision; technical practices; ability to interpret instructions, specifications, blueprints, etc.; ability to plan set up, layout, and measure work common to the trade; ability to use and maintain tools and equipment safely; knowledge of materials common to the trade. File applications for the above with Marge Stanton, Bldg. 34, Rm. 210, 2022.

Clerk-Typist, GS-322-4, PD No. 7618005, Code 611 — This position is located in the Base Operations Division, Aircraft Department. Major duties include typing correspondence, maintaining follow up action on correspondence, screening and routing mail, screening telephone calls, maintaining files and typing and ensuring accuracy of flight logs. Job Relevant Criteria: Must have thorough knowledge of the Navy filing system and Navy Correspondence Manual; must be an accurate typist; must be able to effectively assign own priorities and work under pressure. Potential to GS-5 level. File applications for the above position with Jan Nieberlein, Bldg. 34, Rm. 204, Ph. 2577.

Former enlisted man in Air Force joins Naval Reserve unit

Jack Bates, a former Air Force enlisted man, has become the newest member of Naval Air Weapons Support Unit 0776, a Naval Reserve group whose mission involves supporting the technical departments at the Naval Weapons Center.

Bates, who is an aerospace engineer in the Weapons Systems Development Department's Systems Survivability Branch, joined the Naval Reserve at the Navy Recruiting Center in Los Angeles. Based on his prior military experience, college education and current work assignment he was assigned the rank of lieutenant junior grade.

Members of Naval Air Weapons Support Unit 0776, which is under the command of Cdr. Dean Bare, USNR-R, meet for monthly drill sessions on the second weekend of each month in addition to being assigned to two weeks per year of active duty for training.

Typical of its activities, the unit has been involved in value engineering, guidance and control studies for the AIM-9L guided missile, and operational analysis studies in the electronic warfare area as well as for the Weapons Planning Group, Cdr. Bare said.

Ltjg. Bates, a former staff sergeant, served in the Air Force for four years (1966 through '70) and was a B-52 bomber crew chief. He was assigned to March Air Force Base in Riverside, but spent most of his time on temporary duty at an Air Force

'Polynesian Review' to be staged tonight at Center theater

A "Polynesian Review" stage show will be presented tonight from 8 to 10 o'clock at the Center theater by a group of singers, dancers and instrumentalists of Polynesian ancestry who will present authentic songs and dances of the islands.

Led by Edward Stevens, of Inglewood, Calif., "The Polynesians" have been establishing reputations for themselves by performing at clubs in the Los Angeles area.

All 12 members of the group were born and raised on the islands of the Pacific, and their show features songs and dances that have been handed down from generation to generation by the islanders.

"The Polynesians'" repertoire will include native songs and dances from the Island of Samoa, the Hawaiian Islands, New Zealand and Tahiti.

Guitars, ukeleles and drums will provide the musical accompaniment for the many and varied types of dances that will be presented.

Tickets to the "Polynesian Review" will be on sale at the Center theater box office starting tonight at 7 o'clock. The admission price is \$3 for adults, \$2.50 for military enlisted personnel, and \$1.50 for children under 12 years of age.

'Weeds a hazard,' fire chief warns Center residents

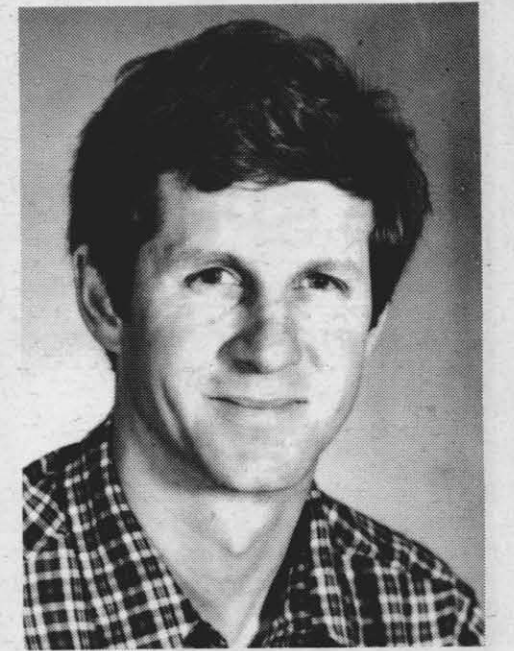
"Due to the abundance of rainfall in the Indian Wells Valley this year, we have a real weed and brush problem in the housing areas of China Lake," Richard Rightmer, fire chief at the Naval Weapons Center, stated.

Residents of Center housing are requested to remove all weeds and brush in the proximity of buildings and fences during spring cleanup.

"It is a very real fire hazard," said Fire Chief Rightmer. "A small fire will start in dry grass very rapidly. If there is any wind at all it may quickly spread to fences, garages, vehicles and dwellings."

This presents a life hazard and a potential property loss to the tenants.

The best fire protection is fire prevention, Fire Chief Rightmer emphasized.



Ltjg. Jack Bates, USNR-R

Base on the Island of Guam and at Utapao in Thailand.

Following his discharge from the Air Force, he returned to college and, in 1973, was graduated from California State University in San Bernardino with a BS degree in physics. He has been employed at NWC since May 1973.

Sailor of Month...

(Continued from Page 1)

Aerographer's Mate "A" School at the Naval Air Technical Training Center, Lakehurst, N. J., graduating in August 1976 among the top two percent of his class.

AGAN Van Winkle reported to the NWSED here in January 1977. A bachelor, he explores the desert in his spare time.

He likes his job and said that he thinks the aerographer's mate rate is the "best in the Navy."

"I have a lot of responsibility," he said, "and I enjoy that."

AGAN Van Winkle will receive a letter of appreciation from Rear Admiral William L. Harris, NWC Commander; an NWC plaque; a 96-hour liberty; and a meal for two at the EM Club.

Happenings around NWC

Coeds at Burroughs High School who will be graduating in June have until May 1 to apply for the annual Ellen Hoyem scholarship award that is presented by the China Lake-Ridgecrest branch of the American Association of University Women.

Last year's recipient received \$500. Applications for the AAUW scholarship can be obtained by calling Sue Stull, at 375-8368, or Margie Schultz, phone 375-9533.

The Ellen Hoyem scholarship award is based on a five semester grade point average, beginning in the tenth grade, and will go to the graduating senior girl who has the highest grade point average over 3.75 and who has been accepted for entrance by a certified four-year college.

In case of a tie, the scholarship award will be divided equally.

Art League To Meet Mon.

A demonstration of acrylics and the techniques of using them will be presented at the next meeting of the Desert Art League, which will be held at 7:30 p.m. at the Community Center.

Stan Chipman, art teacher at Quartz Hill High School and Antelope Valley College, will be the featured artist at this meeting. Chipman, who has a gallery in Lancaster, is known for his paintings of desert and mountain scenes.

During the business portion of this Desert Art League meeting, new officers for the coming year will be elected, and a preliminary report will be presented on the Area IV show of the Kern County Art Festival, which is set this weekend at the Community Center.



MINUTE FLAW—The distance between the large arrows is one-millionth of an inch. The small arrow indicates a minute crack in a printed circuit on a wiring board that caused a system failure discovered at the Center's failure analysis laboratory. The photograph was taken by the lab's scanning electron microscope.