

— Photo by PHAN Doug Matthews

LET YOUR IMAGINATION SOAR — No limits are placed on using one's imagination in preparing arrangements to enter in the artistic design category of the Bloomin' Delights flower show. Marianne Kistler believes in practicing with various combinations of flowers or plants in attempt to get just the right effect. Shown above, she is working with bearded iris and both fresh and dry colanaster.

Wildflower display included in flower show set this weekend

A comprehensive wildflower exhibit, sponsored by the Maturango Museum of Indian Wells Valley, will be among the feature attractions at the third annual Standard Flower Show slated tomorrow and Sunday at the Enlisted Mess.

One of a wide range of events that have been scheduled as part of the Hi Desert Escapade weekend, the flower show will be open from 1 to 7 p.m. on Saturday and from 10 a.m. to 4 p.m. on Sunday.

Members of the committee who have been collecting and identifying native wildflowers in preparation for this exhibit are members of a natural history class taught by Janet Westbrook, friends of the museum, Mary Ann Henry's nature walkers, and other interested parties.

As a result of a wet winter and spring, a good wildflower display for the Hi Desert Escapade is anticipated. Last year, more than 200 varieties of wildflowers and native desert plants were displayed in this always-popular section of the flower show.

For the benefit of the general public, single specimens of wildflowers will be identified by genus, species and common name.

During the standard flower show, color film slides of wildflowers will be shown continuously, and there will be ecology exhibits arranged by Maturango Museum members, who also will offer books about the desert and other materials of interest for sale.

The Desert Tortoise Preserve group will sell T-shirts, wind chimes, pendants, bolo ties, needle point and crewel kits, postcards and decals to raise funds to help in the purchase of land set aside for the protection of desert tortoises.

"Bloomin' Delights" is the title of this Star gazers slate talk about astrophotography

David Gregg will be the featured speaker at the May meeting of the China Lake Astronomical Society on Monday at 7:30 p.m. at the Society's hut, 401-A McIntire St.

He will describe some of the basic principles of astrophotography and present some examples to show what can be done without complicated equipment.

The public is invited to attend the meeting.

year's standard flower show, which is jointly sponsored by the Oasis Garden Club of Indian Wells Valley, the Desert Planters of Ridgecrest and the Maturango Museum.

Among the flowers to be judged and exhibited in the horticulture division are roses, iris and various kinds of bulbs, corms, tubers, and rhizomes, as well as such cut specimens as calendulas, daisies, verbena, petunias, snapdragons, marigolds, columbine, coreopsis and poppies.

Other sections of the flower show will be devoted to herbs, shrubs grown for foliage, flowering vines, flowering trees and shrubs, and fruits and vegetables.

In addition, there is a section for owner-grown native plants, terrariums (plants grown in covered, transparent containers), bottle gardens and dish gardens.

Also there will be a sizable section of the show that will provide entrants the opportunity to display their artistic ability in the making of decorative arrangements using flowers (fresh or dried) and a wide variety of materials limited only by the originator's imagination.



— Photo by PHAN Doug Matthews
READY FOR SHOW — Martina Camphausen, a professional artist from the local area, puts the finishing touches on a rural scene done in acrylic. Her work will be entered in the professional category of the art festival and, from 6 to 8 p.m. Sunday, she will demonstrate her pen and ink drawing technique.

Public invited to Festival of Art at Community Center

The Festival of Art, sponsored by the Desert Art League, will be held at the Community Center tomorrow and Sunday. Hours for public viewing will be from 2-8 p.m. on Saturday and from 11-5 on Sunday. Admission is without charge, but donations to help defray the expenses of the show will be welcome.

The Festival of Art includes work from students and adults in Indian Wells and Searles Valleys including the communities from Red Mountain to Trona. All members of the Desert Art League are eligible to compete, including those who live outside the area mentioned above.

The purpose of the Art Festival is to allow students, adult amateurs, adult advanced amateurs, and professional artists an opportunity to properly display their artistic abilities and to receive acknowledgement by ribbon awards for their efforts. Judging, by a professional artist from outside the local area, will be based on creativity, composition, and skill in handling the media.

In addition to the competition, there are other attractions planned by the Art League. Demonstrations in various art media will be as follows:

On Saturday — Carolyn Braun, from 2-4 p.m., weaving; Francilu Hansen, 4-6 p.m., watercolor and other media; and Martina Camphausen, 6-8 p.m., pen and ink portraits.

On Sunday — Leo Nowak, from 1-3 p.m., oils; Carol Wilcher, from 2-4 p.m., block printing.

The Art League will also have a snack bar where cookies donated by Art League members, coffee, and punch will be on sale.

Los Amigos Hispanos invite community to Cinco de Mayo fete

Tomorrow evening Los Amigos Hispanos invite everyone in the community to join them at a gala dance celebrating Cinco de Mayo. The dance will be held at the Elks Hall, 201 E. Church, Ridgecrest, and admission will be \$3 per person or \$5 for a couple.

Music for dancing will be provided by Feliz; a social hour at 8 will precede dancing, which begins at 9 a.m.

Cinco de Mayo commemorates the 1862 victory of a highly motivated Mexican army led by Ignacio Zaragoza over a much better equipped and trained French army at Guadalupe Hill near Puebla, Mexico.

This victory became a symbol of inspiration to the Mexican people in their battle to regain their independence from France. The anniversary of the battle is celebrated annually as an independence day in Mexico and by Americans of Mexican descent.

Tickets may be purchased in advance from members of Los Amigos Hispanos or may be purchased at the door.

'Steambath' opens tonight at college

Cerro Coso Community College's Theatre 27 production of "Steambath" opens tonight at 8:15 in the college lecture hall. It will also be presented tomorrow night and on May 9 and 10 at the same time place.

General admission is \$2.75, with student ASCC cardholders being admitted for \$2.50. "Steambath" is not actually a steambath, but a limbo — a waiting area between this world and the next.

Starring in the production is John Clark in the role of Tandy. His co-stars are Debbie Keller, as the attendant, and Deanna Ripley-Lotee, as the assistant to the attendant.

Tickets may be purchased at the Cerro Coso College business office, the Gift Mart, Audrey's Pantry, and from members of the cast. Tickets will also be sold at the door prior to all performances.

MOVIES

(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 p.m.

FRIDAY, SUNDAY MAY 2, 4
"THE BUGS BUNNY ROADRUNNER
MOVIE"
(Animation, rated G, 98 min.)

SATURDAY MAY 3
"AVALANCHE EXPRESS"
Starring
Lee Marvin and Mike Connors
(Action thriller, rated PG, 89 min.)

MONDAY MAY 5
"YANKS"
Richard Gere and Vanessa Redgrave
(War drama, rated R, 139 min.)

WEDNESDAY MAY 7
"THE FISH THAT SAVED PITTSBURGH"
Starring
Julius Erving and Jonathan Winters
(Comedy, rated PG, 104 min.)

China Lake Players to present stage comedy 'Mary, Mary'

The China Lake Players will present Jean Kerr's popular light comedy "Mary, Mary" on May 8, 9, 10, 15, 16, and 17, at the Players' hut, 405 McIntire St. Curtain time is 8:15 p.m. on both weekends.

Tickets for the play are \$3 for adults, and \$1.50 for senior citizens, students, and enlisted military personnel. Reservations are required due to the limited seating available. They may be made by telephoning 446-3649.

In the title role will be Sandee Schwarzbach. Playing her ex-husband, Bob, who is trying to win her hand again, is Joseph Mallory. Bill Altieri will portray Dirk Winston, movie star who has fallen in love with Mary. Tamy Horton Burns plays Tiffany Richards, to whom Bob has become engaged. Rounding out the cast is Jim Goss in the role of Oscar, who is Bob and Mary's lawyer.

The production is directed by Pat Schwarzbach, with Judy Vuono and Carol Tilford as assistants. Ralph Schwarzbach is the technical director. Myrna LaBaw will handle properties, and Lee Keyser is in charge of makeup, costumes and set dressing.

Dining treat in store for CPO Club patrons

Dinner featuring a choice of beef or fish as the main entree is offered tonight and tomorrow night to members and guests of the Chief Petty Officers' Club.

This evening from 6 to 9 o'clock, diners will be offered the choice of prime rib of beef or Icelandic cod. Tomorrow night from 6 to 8:30, the menu at the CPO Club will feature steak and Alaskan king crab.

AAUW plans book sale

The annual sale of used books sponsored by the American Association of University Women will take place tomorrow from 8:30 a.m. until 4 p.m. on the lawn of the All Faith Chapel.

The proceeds from the book sale are used to provide a scholarship for a local high school senior.

U.S. Government Printing Office: 1980—No. 1024

From: _____

PLACE
STAMP
HERE

To: _____

BLM schedules public hearing on desert plan

Anyone who has strong feelings about how the 40,000-square-mile California Desert Conservation Area should be managed will have the opportunity to be heard at a public meeting to be held in the Burroughs High School multi-use room from 3 to 8 p.m. on Tuesday.

The Bureau of Land Management is holding a series of 12 meetings to give Californians an opportunity to express their views about three alternative plans that are being considered. Those who are not able to be present or who wish to think about their comments after seeing the three alternative plans have until May 15 to respond in writing.

Present at the meeting will be Lou Boll, district manager; Mark Lawrence, area manager for the Ridgecrest area, and other representatives from the desert planning staff of the Bureau of Land Management.

Four plans of action are being considered. These include: a no action alternative which expresses current management practices; a protection alternative which favors protective policies and limited use of land and resources to assure preservation of sensitive desert values such as scenic quality, desert plants and animals, and cultural and historic resources; a use alternative which would maximize consumptive and intensive uses of the desert such as mineral development, utility corridors, and motorized vehicle recreation; and a balanced alternative which tries to consider social and economic demands and uses of resources equally with the need to protect and preserve sensitive desert resources and environmental values.

The final plan selected may be any one of these or may be a combination of two or more of them.

Of importance is that the Bureau of Land Management is seeking community inputs before decisions are made that will have a crucial effect on the desert.

Copies of the three prime alternatives suggested (in addition to current uses) may be obtained at the local Bureau of Land Management Office prior to the public meeting. The office at 1451 N. Norma St. in Ridgecrest is open until 4 p.m. weekdays.

At Lake Isabella, parachutists get practice landing in water

Twelve personnel from the NWC Parachute Systems Department got well acquainted with Lake Isabella last week when the lake became the site of water training jumps.

The Range Department's Air Operations Branch, in an effort to provide an alternate water jump area for training operations closer than Salton Sea, sought and obtained approval from the Army Corps of Engineers Division Engineer, Brig. Gen. N. G. Delbridge Jr., via Deputy Division Engineer Col. S. R. Meeken, Jr., to conduct such live parachute training drops.

Test jumps will still be conducted at the instrumented test range at the Salton Sea where camera and radar emplacements are established.

The parachutists dropped into the area between Hungry Gulch and French Gulch opposite the Air Force dock in the water ski area. Kern County Parks and Recreation Department patrol boats kept water skiers clear of the drop zone.

Also operating in the water were boats from the Air Operations Branch under BMC Jessie Hoffman, who served as safety officer.

The jumpers exited from a C-117 aircraft flown by LCDr. Frank Ellis. Jump personnel were PR1 M. W. Hager, PR2 D. B. Smith, PR3 C.E. Mathews, LCDr. R. S. Dargo, PR2 H. L. Hartmen, PR2 A. M. Mooney, PR2 J. G. Woolley, PRAA L. M. Arsenault, PRC R. J. Hudson, PRAA R. J. Perrioli, and PRC S. R. E. Allen.

Two of these were students in training.



nwc rocketeer

Major savings expected from video camera invented by three Centerites

The Navy expects to save more than \$350,000 a year because of a stop-action video camera that has just been patented by three Range Department personnel.

Their metric (called metric because video is used as a measurement device) video camera stops motion at a ten-thousandths of a second on a video tube and improves resolution of the picture to enable accurate measurement of miss distances, muzzle velocities, and seat ejection sequences, etc. When two videos are used, the miss distance can be calculated automatically and displayed within 20 seconds.

Miss distance measurements and calculations formerly had to await the development of movie film taken by tracking cameras, and several weeks often elapsed before test results could be accurately determined.

MULTIPLE SAVINGS POSSIBLE

The money saved is not just that from getting results promptly and accurately, but also from the vast quantities of motion picture film that will be saved. Film uses much silver because only silver emulsion is sufficiently sensitive to light for motion picture photography; with the dramatic increase in the price of silver, film costs have shot up. Metric video uses videotape which can be degaussed and recycled; the same tape can be used more than a thousand times.

The metric video camera is strictly a team effort. George Silberberg developed the concept; Patrick Keller, the electronics; and Richard White the mechanical design.

The first working model of their invention went into operation in July 1978; the first color camera has just been modified and put into use.

The system consists of an addition to a standard video camera. This addition is a shuttering video system that is automatically phase-synchronized to the vertical retrace time of a video camera. When the mechanical shutter exposes the face of the tube only during the vertical retrace period (the time between scans of the electron beam), precise images may be obtained that stop action with effective exposure times of 0.002 to 0.0001 second.

The shutter system consists of a twin disk shutter driven by a DC motor that is controlled by electronic circuitry. By locking the leading edge of the signal from a photodetector on the shutter to the leading edge of the camera's vertical drive output,



— Photo by Ron Allen
SPLASH! — A test parachutist from the Parachute Systems Department enters Lake Isabella's chilly waters during water training jumps conducted April 24. See more photos on Page 5.



VALUABLE PATENT — Looking at the metric video patent just awarded are (l. to r.) Patrick Keller, who developed the electronics in the device, George Silberberg, who developed the concept, and John Di Pol, head of the Range Department. Not able to be present for the picture is Richard White, who developed the mechanical design.

— Photo by Ron Allen

design.

The target voltage of the camera is fixed at a constant level.

Those interested in getting a firsthand look at wildflowers in their natural setting are invited to join a tour, led by Janet Westbrook, that also will begin at 8 a.m. with a car caravan from the regional park to the foothills of the nearby Sierras.

All in readiness for Hi-Desert Escapade weekend celebration

All is in readiness for a weekend celebration focusing attention on the special attractions of the Indian Wells Valley area, and surrounding desert and mountain regions.

A Kiwanis-sponsored pancake breakfast, that will be served in the picnic area of the East Kern County Regional Park in Ridgecrest tomorrow from 7 to 11 a.m., will launch the Ridgecrest Chamber of Commerce-sponsored Hi Desert Escapade.

The Kiwanians will prepare a meal of pancakes, eggs, sausage, fruit juice and coffee for donations of \$2.50 per person. It will be repeated at the same time and place on Sunday.

The weekend's widely varied schedule of events will include a standard flower show open from 1 to 7 p.m. tomorrow, and from 10 a.m. to 4 p.m. Sunday at the Enlisted Mess, and an art festival at the Community Center. The latter will be open to the public from 2 to 8 p.m. tomorrow, and from 11 a.m. to 5 p.m. on Sunday.

The parking lot of the East Kern Regional Park will be the assembly point for car caravans that will be formed at 8 a.m. Saturday and leave for Walker Pass, which will be the starting point for a hike along a

(Continued on Page 5)



GETTING TOGETHER — Diane Wadelin (l., upper picture), president of Desert Flowers Chapter No. 125 of the Navy Wives of America and convention chairman for the Southwest Regional Convention of that organization held at NWC last week, Regional President Terry Doxzon, and Glenda Basque (r.), a member of Desert Flowers Chapter who served as convention co-chairman, happily contemplate all that was achieved during the five days of meetings and workshops. Capt. W. B. Haff, NWC Commander, (lower picture) expresses appreciation to Mrs. Doxzon for the work of the organization. Membership in the Navy Wives of America is open to wives of active duty and retired enlisted personnel in Navy, Marines, or Coast Guard.

— Photos by PHAN Douglas Matthews

Special effects from 'Star Wars' part of multi-image show May 9

"Star Wars" buffs and other who are interested in how special effects are put together for presentations will have the opportunity to see an exciting program on Friday, May 9, at 11:30 a.m. at the Commissioned Officers' Mess.

Sponsored by the Sierra-Panamint Chapter of the Society for Technical Communications, June Deatherage, from the Illustration and Design Branch of the Technical Information Department, and Larry Carpenter, of Multi-Vision, a Santa Ana based company, will present "Multi-Image: High Impact Media of the 80s."

They will present three multi-image shows using as many as 24 projectors simultaneously. The shows include: "Special Effects from Star Wars," assembled by VISCOM Productions; "Four Seasons," a series of Robert Wood paintings; and "Anything Goes," an 8-minute Alden Butcher production.

Everyone is welcome to attend, but

reservations are required. Menu choices are chef's salad or a baked ham lunch with Polynesian fruit sauce, Japanese mixed vegetables and baked scalloped potatoes. Either lunch costs \$3.35.

Reservations may be made by telephoning Mary Jane Dettling at NWC ext. 2634 or 3379 by next Wednesday, May 7.

Sorry! we goofed

The ROCKETEER inadvertently frocked Dr. John Gilbert to a lieutenant commander rather than to a lieutenant in last week's paper.

Frocking is a process by which an officer receives all the rights and privileges of the next higher rank without receiving a raise in pay; it is implemented when the officer has been selected for promotion but must await a promotion date.

The ROCKETEER regrets this error and hopes that it has not caused Dr. Gilbert any embarrassment.

Promotional opportunities

Unless otherwise specified in the ad, applications for positions listed in this column will be accepted from current NWC employees and should be filed with the person named in the ad. All others desiring employment with the Naval Weapons Center may contact the Employment-Wage and Classification Division, Code 092, Ext. 2069. Ads will run for one week and will close at 4:30 p.m. on the Friday following their appearance in this column, unless a later date is specified in the ad. Employees whose work history has not been brought up to date within the last six months are encouraged to file a Form 171 or 172 in their personnel file.

Information concerning the Merit Promotion Program and the evaluation methods used in these promotional opportunities may be obtained from your Personnel Management Advisor (Code 096 or 097). Advertising positions in the Promotional Opportunities column does not preclude the use of alternate recruiting sources in filling these positions. As part of the rating process, a supervisory appraisal will be sent to the current supervisor and the most recent previous supervisor of those applicants rated as basically qualified. The Naval Weapons Center is an equal opportunity employer and selection shall be made without discrimination for any nonmerit reason. The minimum qualification requirements for all GS positions are defined in CSC Handbook X-118, while those for all WG, WL and WS positions are defined in CSC Handbook X-118C.

Budget Clerk, GS-501-3/4/5, PD No. 7708015AMIN, Code 0833 — Intermittent work schedule (WAE). The incumbent will assist budget analysts and RMAs with preparation of overhead and technical budgets and may be assigned, on a rotating basis, to one or more departments on Center to provide financial support such as monitoring expenses on job orders and customer order numbers, preparing journal entries, etc. Job Relevant Criteria: Knowledge of accounting or budget clerical procedures; ability to review and research accounting or budget records and data for compiling reports, budget submissions, studies, etc.; effectiveness in working with others; ability to meet deadlines under pressure. Applications accepted from status eligibles. Promotion potential to GS 5.

File applications for the above with Claire Boyd, Bldg. 34, Rm. 206, Ph. 2676.

Staffing Clerk (Typing), GS-203-4/5 or Clerk (Typing), GS-303-4, PD No. 7909003N/790923N, Code 092 — This position is located in the Employment-Wage and Classification Division of the Personnel Department. Incumbent performs the following in support of the Center's Professional Recruitment Program: serves as the primary contact with colleges and universities for the purpose of scheduling recruiting trips; works closely with the L.A. office of OPF to determine the condition of Engineering Registers; serves as primary point of contact on matters dealing with the Cooperative Education Program; coordinates the Center's open recruiting efforts through paid advertising; provides information to scientific, engineering, and professional administrative persons seeking employment at the Naval Weapons Center. Job Relevant Criteria: Ability to deal effectively and tactfully with people of diverse background and interest; ability to work under stress and pressure; ability to plan, organize and accomplish work independently; ability to perform a variety of clerical functions; ability to type accurately and efficiently; ability to comprehend and apply regulatory information. Promotion potential to GS 6.

File applications for the above with Kitty Berry, Bldg. 34, Rm. 206, Ph. 2722.

Procurement Clerk (Typing), GS-1104-3/4, PD No. 8025026N, Code 2523 — This position is located in the Contract Administration Branch, Contracts Division, Supply Department. The incumbent types in final form various contract documents and correspondence. The incumbent is also required to maintain log books and files and to prepare inputs for the Supply Department's Requisition Information System. Job Relevant Criteria: Knowledge and experience pertinent to the position; ability to interpret instructions; ability to meet and deal effectively with others; ability to meet deadlines under pressure; skill in operating a typewriter.

File applications for the above with Bonnie Owens, Bldg. 34, Rm. 204, Ph. 2577.

Procurement Clerk (Typing), GS-1104-5/Procurement Assistant, GS-1104-6, PD No. 8025027N, Code 2523 — This position is located in the Contract Administration Branch, Contracts Division, Supply Department. The incumbent assists in administering complex contracts for R&D items, supplies, and services. This includes monitoring the performance, reviewing the contract file for complete documentation and initiating contract modifications. The incumbent is also required to initiate close-out correspondence with the contractor, properly administer, auditor and patent claims as required. Job Relevant Criteria: Knowledge of Procurement Request preparation procedures; knowledge of Defense Acquisition Regulations and NAVSUP Publication 467; ability to gather, assemble and verify information; ability to deal effectively with personnel at all levels, both on and off Center. Promotion potential to GS 7.

File applications for the above with Bonnie Owens, Bldg. 34, Rm. 204, Ph. 2577.

Supply Clerk, GS-2005-3, PD No. 782526AMIN, Code 2572 — This position is located in the Customer Service and Control Division, Supply Department. The incumbent serves as a point contact for all procurement requests for material, equipment, forms, printing requests, publications and services. The incumbent reviews and analyzes all requests to ensure all documentation is appropriate and correct. The incumbent must determine the

proper source of supply, funding requirement, and submission route. Job Relevant Criteria: Knowledge of the Federal Supply System; ability to plan and organize work and establish priorities; ability to work independently; ability to meet and deal effectively with others. Promotion potential to GS 4.

File applications for the above with Linda Bego, Bldg. 34, Rm. 212, Ph. 2736.

Electrician, WG-2805-8, JD No. 316N, Code 26425 — Position is located in the Michelson Lab Service Shop, Maintenance Utilities Division, Public Works Department. The incumbent works with qualified journeyman electrician, or under the direct supervision of the foreman, in the accomplishment of electrical work in industrial field such as industrial wiring, troubleshooting and shop repair. Job Relevant Criteria: Knowledge of electrical theory; use of electrical test equipment; knowledge of electrical

proper source of supply, funding requirement, and submission route. Job Relevant Criteria: Knowledge of the Federal Supply System; ability to plan and organize work and establish priorities; ability to work independently; ability to meet and deal effectively with others. Promotion potential to GS 4.

File applications for the above with Linda Bego, Bldg. 34, Rm. 212, Ph. 2736.

Reassignment Opportunities

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

Electronics Engineer, GS-855-11 or 12, PD No. 7962085E, Code 4242 — This position, located in the Telemetry Operations Branch in the Range Department, is that of a design engineer for the development and acquisition of digital and analog telemetry instrumentation systems. Typical work assignments will include modernization of telemetry facilities, designing digital interfaces between telemetry systems, etc. Applications will be accepted until May 9, 1980.

File applications for the above with Bonnie Owens, Bldg. 34, Rm. 204, Ph. 2577.

Electronics Engineer, GS-855-9/11/12, PD No. 7964012E, Code 4422 — This position is located in the Test Support Branch of the Test Engineering Division, Parachute Systems Department. The incumbent designs, develops, tests and evaluates electronics systems used in the testing of parachutes and other deceleration systems. The incumbent must also arrange for in-house or off Center acquisition of the equipment, oversee its installation and evaluate it in the test situation. Applications will be accepted until May 9, 1980.

File applications for the above with Bonnie Owens, Bldg. 34, Rm. 204, Ph. 2577.

Sign Painter, WG-4104-7, JD No. 704, Code 26442 — Position is located in the Paint Shop, Maintenance and Utilities Division, Public Works Department. Incumbent will lay out and paint signs, posters, and identifying symbols. Uses drafting instruments, mixes various paints, and uses brushes, pens, and air brush. Prepares silk screens to produce, wood, and glass surfaces. Finishes various surfaces by staining, varnishing, polishing, and waxing. NOTE: Position has promotion potential to WG-9; however, promotion is not guaranteed. Job Relevant Criteria: Ability to do the work without more than normal supervision; ability to design, layout and paint letters, signs, posters, and identifying symbols; ability to use and maintain tools and equipment; knowledge of materials; ability to interpret instructions; dexterity and safety.

File applications for the above with Linda Long, Bldg. 34, Rm. 210, Ph. 2022.

Interdisciplinary Position GS-11/12: Mathematician (GS-1520), Computer Scientist (GS-1530), Electronics Engineer (GS-855), Physicist (GS-1310), PD No. 8021055, Code 3192 — This position is in the Tactical Software Branch of the Tactical Software Engineering Division, Code 319. The incumbent will serve as the Lead Tactical Software Engineer on the AV-8B aircraft program. This VTOJ aircraft is being developed by McDonnell Douglas Aircraft Co., Inc., at the Naval Weapons Center designated as the Support Weapon Systems Branch (Code 3103). Job Relevant Criteria: Knowledge of digital tactical avionics systems; knowledge of assembly and HCL programming; familiarity with airborne digital computers; ability to deal effectively with a variety of people; ability to communicate effectively orally and in writing.

File applications for the above with Pat Gaunt, Bldg. 34, Rm. 211, Ph. 2314.

Clerk-Typist, GS-322-3, PD No. 8022028, Code 2373 — (Part-time position 39 hours per week.) This position is located in the Systems Technology Branch, Propulsion Systems Division, Ordnance Systems Department. Incumbent provides clerical support for S in guided projectile, 8 in. anti-radiation projectile and laser guided

equipment; technical practices; trouble shooting; electrical drawings; hand and power tools; safety and dexterity; ability to do the work of the position without more than normal supervision.

File applications for the above with Linda Long, Bldg. 34, Rm. 210, Ph. 2022.

Heavy Mobile Equipment Mechanic, WG-8003-8/10/11, JD No. 434, Code 26771 — This position is located in the Maintenance and Repair Branch, Transportation Division, Public Works Department. The incumbent maintains, repairs, overhauls, modifies and tests various kinds of heavy duty diesel and gasoline powered equipment such as locomotives, cranes, 12 cylinder engines, tanks, power plants, fire water-pump engines, construction and earth moving equipment. Performs on the job instruction and training of heavy mobile equipment helpers and to intermediate mechanics. Diagnoses, repairs, modifies, tests, and assembles machinery and equipment components such as hoist, travel, swing and boom assemblies, transmissions, spider gears, air brakes, crawler tracks, compressors, etc. NOTE: If position is filled below the WG-11 level, promotion is not guaranteed. Job Relevant Criteria: Ability to do the work of the position without more than normal supervision; knowledge of equipment assembly, installation, repairs, etc.; technical practices and trouble shooting; ability to use hand tools, engine equipment, power tools, auxiliary machines, accessories, and equipment; ability to use measuring tools, mechanical gages, instruments, diagnostic and test equipment; ability to read and interpret blueprints, instructions,

equipment; technical practices; trouble shooting; electrical drawings; hand and power tools; safety and dexterity; ability to do the work of the position without more than normal supervision.

File applications for the above with Linda Long, Bldg. 34, Rm. 210, Ph. 2022.

Youth soccer results . . .

Youth soccer results . . .

(Continued from Page 6)

The Whitecaps' defense was no match for the smooth offense displayed by the Sounders as they trounced their opponents 10-0. The 3 goals tallied by Reed Stephenson would have been more than enough to win the game, but 2 goals each also were chipped in by Scott Oliver, Scott Hannon and Sam Greenum, and Mike Garret added 1 more for good measure.

The Surfs' 5-2 win over the Roughnecks developed into a fast-paced game in which the offense also outshined the defense. Five players got in on the scoring for the Surfs, with one goal apiece. They were Brian Collie, Jon Bainbridge, Evan Serpanos, Troy Perkins, and Guy Stanton. Players for the Roughnecks who broke into the scoring column were Ricky Bullard and Shawn Upton.

A long, solo run by Kevin Featherston produced the only score of the game for the Tornados in their 2-1 loss to the Kicks. Featherston's goal gave his team a 1-0 lead, but the Kicks, who were out after their first win of the season, turned the trick as a result of the two goals tallied by Scott Piri.

OTHTC plans sixth annual Inyokern run, picnic Sunday

The Over-the-Hill Track Club's sixth annual Inyokern run and picnic will be held on Sunday.

Registration for this event will begin at 8 a.m. at the intersection of Highway 395 and the extension of S. China Lake Blvd. Participants in the joggers' class will start at 9 a.m., and the speedier distance runners will get underway at 9:30.

The route for this 10-mile race follows along old Highway 395 north and ends at the Kern County park in Inyokern. Markers will be set in place each mile along the route, and times will be called out to the runners as they reach the 1- and 5-mile points in the race.

Medals will be awarded to the men and women who have the fastest times in this event, and special T-shirts will be given to all those who finish the 10 mile grind. The entry fee is \$5 per person.

Participants are encouraged to bring a picnic lunch and relax in the shade at Inyokern park while the race results are being tabulated prior to presentation of the awards.

Additional information can be obtained by calling Scotty Broyles, race director, after working hours at 446-2941.

Dodgers, Wildcats loom as favorites in Major Division

The Dodgers and Wildcats, who each won two games last week, have established themselves as favorites to win the Major Division championship of the China Lake Little League.

The Dodgers trounced the Yankees 14-2 and blasted the Tigers 21-5, while the Wildcats knocked off the Tigers 27-15 and defeated the Red Sox 7-3. In the only other Little League game played last week, the Yankees evened their record at 1-1 by outscoring the Red Sox 13-6.

The Dodgers have been led by the pitching of Ernie Rodriguez and the hitting of Allan Ball and Brian Stover. At the plate, Todd Rowland and Ronnie Shedenhelm have been getting the lion's share of the hits for the Wildcats.

Others who have been hitting the ball well in early season play are John Andrews, of the Yankees, and Teddy Setters, of the Red Sox.

Last Monday night's games were rained out, including opening ceremonies for Minor Division teams that began play on Tuesday with contests at China Lake and Inyokern.

Farm and T-ball Division teams will begin play next week.

In the two team International Division, the Wolves outscored the Red Devils, 2-1. Both teams (composed of 7th through 9th grade players) have improved, and last Saturday's tilt was the best of the season so far.

Jochen Schadow of the Wolves gave his team a 1-0 lead when the Red Devil goalie got caught too far away from the net, and Schadow chipped a long shot between the goal posts. That was all of the scoring until



ON THE ATTACK — Richard Liedtke, fullback for the Rogues, moves the ball goalward during the Youth Soccer League game between the Rogues and Cosmos. Liedtke tallied one of his team's goals in the Rogues' 4-0 shutout of the Cosmos. — Photo by Ron Allen

Eric Young of the Red Devils tallied on a 30-yd. shot that tied the score at 1-1.

In the final minutes of the game, however, Donny Troviger of the Wolves beat the Red Devils' defenders to the ball and scored a goal that won the game when the game official denied an offside appeal that would have nullified the tally. Paul Wydra, left wing, led the Red Devils' on offense, and it was Hyrum Stevens who was singled out for his play on defense for the Red Devils.

Promotional Opportunities

(Continued from Page 2)

equipment; technical practices; trouble shooting; electrical drawings; hand and power tools; safety and dexterity; ability to do the work of the position without more than normal supervision.

File applications for the above with Linda Long, Bldg. 34, Rm. 210, Ph. 2022.

Sign Painter, WG-4104-7, JD No. 704, Code 26442 — Position is located in the Paint Shop, Maintenance and Utilities Division, Public Works Department. Incumbent will lay out and paint signs, posters, and identifying symbols. Uses drafting instruments, mixes various paints, and uses brushes, pens, and air brush. Prepares silk screens to produce, wood, and glass surfaces. Finishes various surfaces by staining, varnishing, polishing, and waxing. NOTE: Position has promotion potential to WG-9; however, promotion is not guaranteed. Job Relevant Criteria: Ability to do the work without more than normal supervision; ability to design, layout and paint letters, signs, posters, and identifying symbols; ability to use and maintain tools and equipment; knowledge of materials; ability to interpret instructions; dexterity and safety.

File applications for the above with Linda Long, Bldg. 34, Rm. 210, Ph. 2022.

Interdisciplinary Position GS-11/12: Mathematician (GS-1520), Computer Scientist (GS-1530), Electronics Engineer (GS-855), Physicist (GS-1310), PD No. 8021055, Code 3192 — This position is in the Tactical Software Branch of the Tactical Software Engineering Division, Code 319. The incumbent will serve as the Lead Tactical Software Engineer on the AV-8B aircraft program. This VTOJ aircraft is being developed by McDonnell Douglas Aircraft Co., Inc., at the Naval Weapons Center designated as the Support Weapon Systems Branch (Code 3103). Job Relevant Criteria: Knowledge of digital tactical avionics systems; knowledge of assembly and HCL programming; familiarity with airborne digital computers; ability to deal effectively with a variety of people; ability to communicate effectively orally and in writing.

File applications for the above with Pat Gaunt, Bldg. 34, Rm. 211, Ph. 2314.

Clerk-Typist, GS-322-3, PD No. 8022028, Code 2373 — (Part-time position 39 hours per week.) This position is located in the Systems Technology Branch, Propulsion Systems Division, Ordnance Systems Department. Incumbent provides clerical support for S in guided projectile, 8 in. anti-radiation projectile and laser guided

equipment; technical practices; trouble shooting; electrical drawings; hand and power tools; safety and dexterity; ability to do the work of the position without more than normal supervision.

File applications for the above with Linda Long, Bldg. 34, Rm. 210, Ph. 2022.

Heavy Mobile Equipment Mechanic, WG-8003-8/10/11, JD No. 434, Code 26771 — This position is located in the Maintenance and Repair Branch, Transportation Division, Public Works Department. The incumbent maintains, repairs, overhauls, modifies and tests various kinds of heavy duty diesel and gasoline powered equipment such as locomotives, cranes, 12 cylinder engines, tanks, power plants, fire water-pump engines, construction and earth moving equipment. Performs on the job instruction and training of heavy mobile equipment helpers and to intermediate mechanics. Diagnoses, repairs, modifies, tests, and assembles machinery and equipment components such as hoist, travel, swing and boom assemblies, transmissions, spider gears, air brakes, crawler tracks, compressors, etc. NOTE: If position is filled below the WG-11 level, promotion is not guaranteed. Job Relevant Criteria: Ability to do the work of the position without more than normal supervision; knowledge of equipment assembly, installation, repairs, etc.; technical practices and trouble shooting; ability to use hand tools, engine equipment, power tools, auxiliary machines, accessories, and equipment; ability to use measuring tools, mechanical gages, instruments, diagnostic and test equipment; ability to read and interpret blueprints, instructions,

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File applications for the above with Linda Long, Bldg. 34, Rm. 210, Ph. 2022.

NWC Blue moves into 1st place in Commander's Cup competition

The NWC Blue team (Code 612) has moved into first place in the Commander's Cup athletic competition standings after last week's clearcut victory in tennis over the netters representing NWC Gold and VX-5, who placed second and third, respectively, in this event.

As a result of winning the tennis competition, NWC Blue has compiled a total of 28 points in the year-long scramble for the Commander's Cup, while VX-5 has slipped to second with 24, and NWC Gold is trailing with 20 points.

The tennis players from NWC Blue won six out of seven singles matches and both doubles matches from VX-5 in the opening round of tennis play on Tuesday of last week.

Winners in the singles matches for NWC Blue, their opponents and the scores were: Willie Moffett def. Mike Kasper, 6-2, 6-1; Bob Martinez def. Dave Burlin, 6-4, 6-2; John Levitsky def. Chuck Provinsal, 6-1, 6-0; Larry Rafael def. Kevin Bauer, 6-0, 6-0; Desi De La Torre def. John Hatcher, 6-0, 6-0; and Patricia Hendrix def. Tracey Hines, 6-0, 6-0.

The seventh singles match of the day was forfeited by NWC Blue to VX-5, but the pairs of Moffett and Levitsky and De La Torre won their doubles matches for NWC Blue by scores of 6-1, 6-2, and 6-0, 6-0, respectively, over Kasper-Burlin and Provinsal-Bauer of VX-5.

The VX-5 Vampires did a bit better on April 23 against NWC Gold by winning three out of seven singles matches, but went down to defeat again in both doubles contests.

Winners for NWC Gold in the singles matches, their opponents and the scores were: Ted Narvez def. Burlin, 6-3, 6-3; Armando Amiana def. Bill Hawk, 6-3, 6-2; Andy Miller def. Waylan Williams, 6-0, 6-1; and Dave Levy def. Provinsal, 6-0, 6-1.

Victors for VX-5 in the singles matches played against NWC Gold were Kasper over

Rogelio Del Parto, 4-6, 6-3, 6-2; and Hines over Louis Aldana, 6-2, 6-1. VX-5 also picked up another win over NWC Gold via the forfeit route in the singles play.

In the doubles matches, winners for NWC Gold were Del Parto-Narvez, who defeated Kasper and Burlin of VX-5, 6-3, 6-4, and Miller and Amiana, who knocked off Williams and Hawk of VX-5, 6-1, 6-0.

Wrapping up their victory in the Commander's Cup tennis event, the NWC Blue racquet swingers won five out of seven singles matches and both doubles matches from their counterparts on the NWC Gold team.

Moffett and Levitsky again teamed up to fashion a 6-3, 6-2 doubles win and the NWC Blue team forfeited the second doubles match of the day.

In singles competition, winners for NWC Blue were Moffett, Martinez, Levitsky, Rafael and Karen Kilhefer. NWC Gold winners in singles were Amiana and Dave Leedy.

China Lake Intramural Volleyball League

Final standings:		



Recreation Roundup

Ping pong tourney set May 13-16 at Community Center

Plans were announced this week for a ping pong tournament that will be held on Tuesday, Wednesday and Thursday, May 13-15, from 6 to 10 p.m. at the Community Center.

There is a registration fee of \$2 which entitles players to compete in either singles or doubles competition. Entry forms and rules can be obtained from the Recreation Coordination Office in Bennington Plaza, at Sports Etc. in Ridgecrest, or at Cerro Coso Community College.

Those interested in additional information can contact Jack Davison by calling NWC ext. 2710 or 375-9598; Bill Chan, NWC ext. 2816, or 375-5590; or the Recreation Coordination Office, NWC ext. 2010.

ACTIVITY CARD DEADLINE

Monday is the deadline for the purchase of sports activity cards by all those who plan to participate in the China Lake Intramural Softball League's summer season.

Civilian employees of NWC are charged \$10 for a sports activity card to cover the softball season, and there is a \$12 fee for non-Department of Defense personnel. There is no charge for military personnel.

Only those who have such cards will be eligible to participate in summer softball league games. Sports activity cards can be purchased at the Recreation Coordination Office, located next door to the Center gym.

TENNIS CLUB MIXER
The China Lake Tennis Club is organizing a twilight doubles mixer that will begin on Tuesday, May 6, and continue on Tuesdays from 6 to 9 p.m. for the next six weeks.

Planners of this activity report that there are openings for approximately 25 more participants. The entry fee is \$5 per person for six weeks of tennis.

For further information, those interested are asked to contact Al or Mary Alvarado by calling Sand Sierra Business Machines in Ridgecrest at 375-1996. Monday is the last day to register.

BOWLING ALLEY TO CLOSE

Hall Memorial Lanes will be closed on Monday and Tuesday while the bowling lanes are being resurfaced. The bowling alley will re-open for use at 5 p.m. on Wednesday, May 7.

Special Services Div. to host 16-team slow pitch softball tourney here this weekend

Competition will get underway tonight at 8 o'clock in a slow pitch softball tournament sponsored by the NWC Special Services Division.

A total of 16 teams, including 8 local entries, will participate in this double elimination event.

In first round action at Schoeffel Field, a pair of local teams — Burger King and CSC — will tangle at Schoeffel Field at 7 p.m. A second game, also at Schoeffel Field, will follow at 8 p.m. between the NWC varsity and a Navy team from the USS Hull, homeported in San Diego.

According to Vic Sullivan, of the Kern Area Umpires Association, who is serving as tournament director, local teams entered in the slow pitch softball tourney, in addition to the three already mentioned, are: The Homestead, SCOE Brothers, Knights of Columbus, Pizza Villa, and the High Desert Saloon.

In addition, the list of tourney entries

Hot action tires Youth Soccer League players

Warm weather, a trifle on the humid side, left the players a little bit limp after last Saturday's schedule of games between teams of the China Lake Youth Soccer League.

In the Pacific Division (for 1st and 2nd grade players), the Earthquakes, Express and Fury won their games handily by scores of 5-1, 3-0 and 4-0 over the Eagles, Rowdies and Apollos, respectively. Results of other games played in this division were Chiefs 2, Cobras 1, and Sockers 1, Sunshine 0.

Jeremy Osborn provided all the scoring power the Earthquakes needed in their 5-1 victory over the Eagles as he booted in 4 goals. An extra tally for good measure was added by Matt Mann, of the Earthquakes, while the lone score for the Eagles came off the toe of Ralph Jorgensen, with an assist by Lance Kirkpatrick. Jacob Albers was credited with assists on several of the scores by the Earthquakes.

The Rowdies were close, but couldn't quite get the ball into the net in their 3-0 shutout loss to the Express. In this tilt, David Shumway scored a pair of goals and Kevin Collie added another for the winners. Leading defenders for the Express were Doug Larch and Amy Shumway, who did a good job of keeping the Rowdies away from their goal.

In a 4-goal victory over the Apollos, the Fury was led by Armando Valdevia, who set the pace for his team on offense. On one occasion, Valdevia fired a high, hard shot at the goal with such force that the ball burst and stuck in the top corner of the goal posts.

One goal each by Matt Pohl and Tim Matson turned out to be just enough scoring to enable the Chiefs to pick up a 2-1 victory at the expense of the Cobras. The game was dominated by the Chiefs, who contained every scoring drive except one by their opponents. On defense, the winners were led by Kristin McCary and Mark Nemeth.

In another low scoring game, Mark Frisbee broke a scoreless deadlock by kicking a goal that gave the Sockers a 1-0 win over the Sunshine team. Down by a single goal, players for the Sunshine (led on offense by Ernesto Tatanuy and Scott Arts) came close, but just missed breaking through with a score that would have tied the game in the closing moments of the contest. Outstanding players on defense for the Sockers were Lincoln Laroe and Richard Burditt.

In the American Division (for 3rd and 4th grade players), four of the five teams that won their games held their opponents scoreless. The lone exception to this general rule last Saturday was a 5-3 win by the Drillers over the Lancers.

Other scores in American Division contests were Hurricanes 2, Strikers 0; Rogues 4, Cosmos 0; Blizzard 1, Aztecs 0; and Timbers 3, Sting 0.

Four players shared in the 5 goals tallied by the Drillers in their victory over the Lancers. They were Jeff Shepherd, David

includes the Sportsmen, Inn Outlaws and the Montgomery Pass Aces from Bishop, La Mancha Landscape from Palm Springs, the Sandblasters from Santa Maria, the NAS Miramar team from San Diego, the Bombers from Norco, Calif., and the AC Electric team from Oxnard, Calif.

Following the two games scheduled tonight, the competition will resume at 8 a.m. Saturday when the Sportsmen Inn and SCOE Brothers teams will clash at the Pony League diamond, and Schoeffel Field will be the site of a contest between the Knights of Columbus and La Mancha Landscape.

The tournament will conclude with a championship game that will start at around 12 noon Sunday at the Pony League field.

Players on the tournament championship team will each receive individual trophies, and there will be a "most valuable" player award, as well as trophies for the sponsors of the first, second and third place teams.



CONCENTRATING ON BALL — Allison Robesky (No. 11), fullback for the Cosmos, concentrates on trying to control the ball in this bit of action during last Saturday's youth soccer tilt between the Cosmos and Rogues. Greg Garcia (in dark jersey), left forward for the Cosmos, gets in position to help advance the ball, while Warren Arledge and Greg Janson, fullbacks for the Rogues, move up to stop the play. Watching to see which way the ball will bounce after this melee is over is Bryan McCrary (No. 17), right wing for the Cosmos. The game was won 4-0 by the Rogues. — Photo by Ron Allen

Tetmeyer, Greg Boske, and Steve Dargo. Tops on defense for the Drillers was Allen Finley, the team's center halfback. Two goals by Matt Mechtenberg were tops for the Lancers in a losing effort. Mechtenberg was joined in the Lancers' scoring column by Scott Shadd, who chipped in one goal, with an assist from Mechtenberg.

Topnotch goal tending by Tony Haaland helped to preserve a 2-0 victory for the Hurricanes in their contest with the Strikers. Two goals by David Mann, one on an assist by Tommy Faller, accounted for all of the scoring in the Hurricanes' win over the Strikers.

The Cosmos had an off day last Saturday as they came out on the short end of a 4-0 final score in a game against the Rogues. Goals for the Rogues were tallied by Greg Janson (assist by Greg Todd), Richard Liedtke, Donald Ashton (assist by Bobby Moldenhauer) and by Moldenhauer (assist by Ashton). The Cosmos, despite their one-sided defeat, could look back on a few bright spots on offense in the play of Greg Garcia and Mike Ashley, and some good defensive play by Neil Orwig, Wade Boyack and

China Lake Intramural Softball League season to begin Monday

The 1980 summer season of China Lake Intramural Softball League play will begin Monday and continue into the early part of August.

A total of 43 teams have been formed to play in various divisions of the league, and games are scheduled Monday through Friday nights at Schoeffel Field, Monday through Thursday at Reardon Field, and also Monday through Thursday at the two Recreation Division softball playing fields on Knox Rd.

Five teams are entered in the men's fast pitch division that will be staging its games on Mondays and Wednesdays at 6 and 8 p.m. at Reardon Field. The teams are China Lake Navy, Sand Sierra Raiders, Vinyl Disc Outlaws, Pizza Villa Villains, and Fuller Masonry.

Entries in the American Division of the men's slow pitch league are NWC Varsity, High Desert Saloon, SCOE Brothers, Pizza Villa, CSC and Time Out. Another six teams — Homestead, Swap Sheet, Bird Olds, ARCS, Burger King, and Knights of Columbus — will vie in the National Division of the men's slow pitch league.

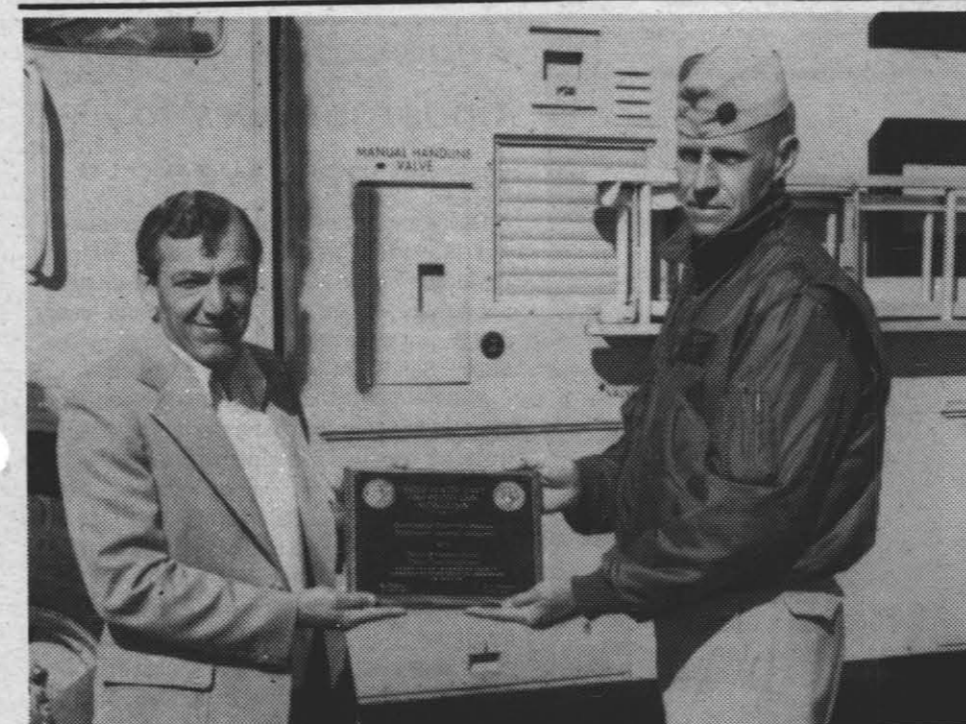
There also is a military slowpitch division composed of the following teams: Marauders, Sports Etc. Tide Raiders, The Team, Techs'n Rangers, NWC O's and the Dispensary.

Allison Robesky.

Passes from Matt Kibbe and Dante Rusciollelli moved the ball into scoring position for a successful shot at the goal by Clint Chaffee in the Blizzards' 1-0 victory over the Aztecs. Both teams displayed a lot of hustle on offense as well as on defense in what was an evenly matched game.

For the second week in a row, Matt Ziegler tallied 3 goals for the Timbers, who last Saturday pinned a 3-0 whitewash on the Sting. Two of Ziegler's goals came on assists from teammates Wayne Ziegler and Joe Lloyd. Also instrumental in the Timbers' offense was Jason Okamoto, while Greg Wetzell and Chris Wilke anchored the defense for the Timbers. Two players for the Sting — Craig Rindt and Dan Flores — nearly put the ball into the net for a score, but missed by a narrow margin.

Three games played between teams in the National Division (for 5th and 6th grade players) produced a total of 20 goals, including a season's high 10-0 win by the Sounders over the Whitecaps. Other scores were Surfs 5, Roughnecks 2, and Kicks 2. (Continued on Page 7)



EXCELLENCE RECOGNIZED — NWC Fire Chief Lee O'Laughlin and Capt. W. B. Haff, NWC Commander, proudly hold a handmade plaque presented to the Center by the Navy Fire Protection Association. NWC received the award in the "Medium Crash" category; categories are determined on the basis of average takeoff weight of aircraft normally stationed at a facility. — Photo by Ron Allen

Fire Division wins 1st place in Navy, Marine Corps competition

The Naval Weapons Center's Fire Division took first place in the Navy Fire Protection Association (NAVFPA) 1979 competition with its entry in the Medium Crash category.

Crash categories depend on aircraft maximum gross takeoff weight; an average of 60,000 to 90,000 pounds gross takeoff weight of aircraft stationed at NWC put it in category 3 or medium as determined by the annual Area Fire Marshall inspection.

Capt. W. B. Haff, NWC Commander, on presenting the handmade plaque denoting the winning entry at a ceremony held at Fire Station No. 3 at Armitage Airfield proffered the congratulations of the Center as a whole to personnel of the Fire Division. He added, "We really appreciate the fine fire protection provided by the Fire Division. Because of you and the work that you do, the Center has received this outstanding award."

The NAVFPA "Outstanding Fire Department" competition is open to all 188 Navy and Marine Corps Fire Departments. The competition is based on training, education, public relations, civic action, awards recognition and operations. There were six categories for entry, according to

Blue Angels seeking applications from enlisted personnel

The Blue Angels, U.S. Navy Flight Demonstration Squadron, will visit the Naval Weapons Center next week. The squadron is due to arrive on Thursday afternoon, May 8, to prepare for an air show that will be the highlight of the local observance of Armed Forces Day on Saturday, May 10.

The Blues are currently accepting applications from enlisted personnel in the AD, AE, AK, AME, AMH, AMS, ASH, ASM, AT, AZ, DM, and YN ratings. Those interested in an interview by a representative of the Blue Angels while the squadron is at China Lake can make arrangements now by calling Master Chief Morgan at (Autovon) 922-2466 or placing a commercial call to (904) 452-2466.

Enlisted personnel must be eligible and submit applications in accordance with the Enlisted Transfer Manual, Chapter 9.23. Those interested are encouraged to submit an application as soon as possible and then schedule an interview with a member of the Blue Angels' team during the visit here May 8 through 10.

Additional information may be obtained by calling the telephone numbers listed above, or writing to the Administrative Office, Blue Angels, Naval Air Station, Pensacola, Fla., 32508.

individual activity fire department sizes.

The NWC Fire Division of the Safety and Security Department entered in two categories, "Medium Crash" and "Large Structural." Entry packages were limited to no more than 20 pages of Navy bond paper, including pictures.

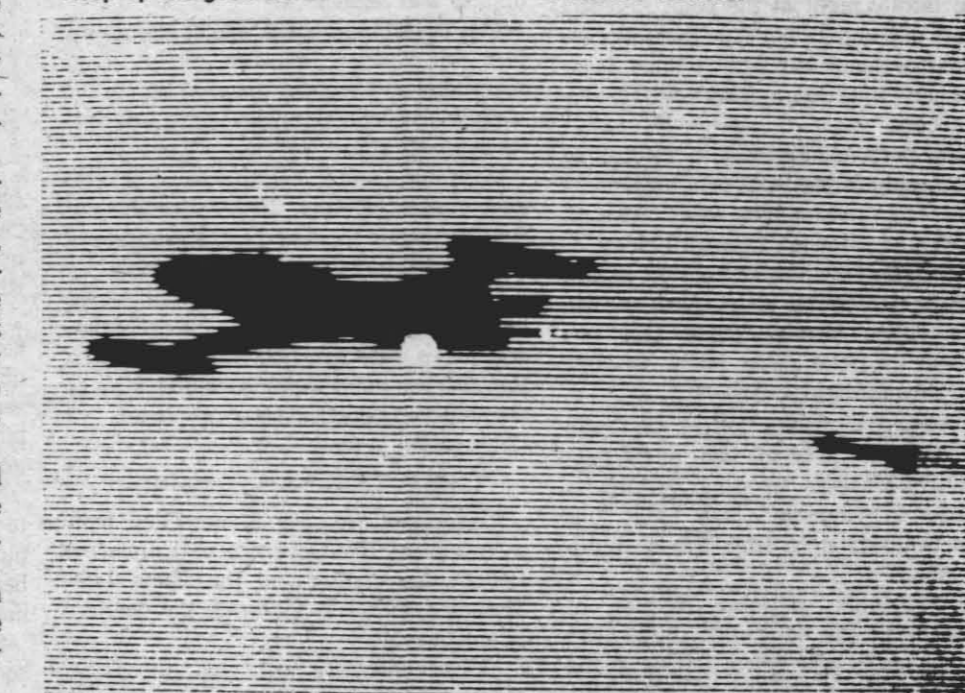
When Fire Chief Lee O'Laughlin attended the annual meeting of NAVFPA held in Memphis, Tenn., he was presented a framed certificate for each of the Center's entries, and the plaque for the winning entry.

Good conservation practices reduce energy consumption

A combination of good conservation practices and a warm winter has resulted in the Naval Weapons Center's using 25 percent fewer BTUs per square foot so far this year than in 1975, the baseline year for energy conservation.

The President mandated a 20 percent reduction by 1985. Although NWC must go through the cooling season for fiscal year 1980, it is most encouraging, according to Capt. Jon Ives, NWC Public Works Officer, to have operated for the first half of this fiscal year at a rate that achieved the President's goal for 1985.

Capt. Ives notes that "With continued good conservation practices and cooperative weather, we may be able to achieve the full goal ahead of schedule. Keep up the good work!"



TRACKING — The metric video device added to a standard TV camera exposes the face of the tube only during the vertical retrace period (the time between scans of the electron beam), stopping action and showing a precise image that can be used to measure miss distances.

AMSAN Brian Moses selected as Sailor of Month by NWC

Aviation Structural Mechanic Airman Brian J. Moses has been selected as the Naval Weapons Center Sailor of the Month for March.

In the letter nominating him for the honor, ADCS J. L. Fielder noted that AMSAN Moses is an intelligent individual whose reliability and resourcefulness have enabled him to carry out all assignments, and that his initiative and cheerful disposition have earned him the respect of both his peers and his superiors.

The letter continues, "on numerous occasions his supervisors received excellent comments from his own pilots as well as pilots from fighter weapons and various squadrons for his prompt and efficient, courteous service."

ADCS Fielder also comments that although March's Sailor of the Month has only recently earned his A-7 plane captain certificate, he has already started to cross-train on both the F-4 and F-14 aircraft.

AMSAN Moses has been in the Navy for less than two years, and spent 10 months of this time assigned to the USS New Orleans, an amphibious assault ship. From sea duty he was sent to "A" school in Tennessee, and then assigned to NWC in August 1979.

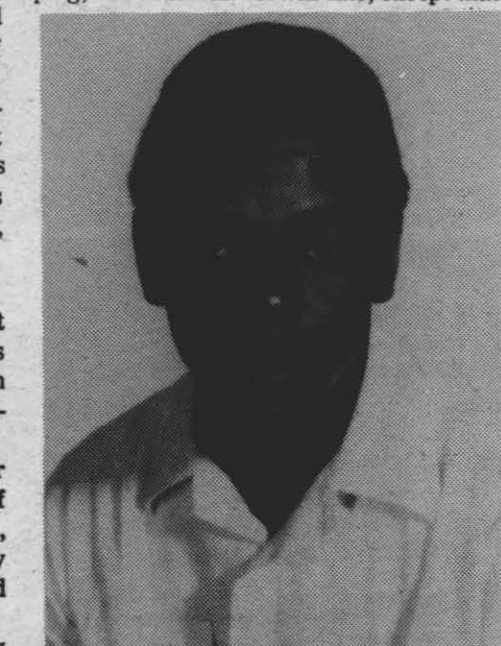
He attended college for a year following his graduation from M.D. Smiley High School in Houston, Tex., before enlisting in the Navy, and plans to continue his education at Cerro Coso Community College this fall.

His wife, Dennis, is already enrolled at Cerro Coso College, where she is one of the cheerleaders.

AMSAN Moses and his wife are both active in and interested in sports of all kinds. He prefers basketball, while Mrs.

Moses likes to play baseball, tennis, and racquetball.

They have both recently been introduced to the joys of camping, checking out tents from Special Services and joining a group of friends in a campout at Miracle Springs. ("We've always just lived in big cities, so this is the first time that we've tried camping," he chuckles. "It was fine, except that



AMSAN Brian J. Moses

all night we kept hearing crows and wondering if they were going to wander into the tents.")

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

Major savings expected...

(Continued from Page 1)

the system exposes the video tube at a fixed time during the camera vertical retrace time.

Since video images are electrically processed, these images can be processed through a computer to yield answers within seconds of an event. A Hewlett-Packard 9800 System 45 calculator is used making the whole system completely portable.

The Center is proceeding full-speed to get the system operational as completely as possible. By 1983 the metric video will replace film cinetheodolites, track sight cameras, muzzle velocity and fuze function cameras, among others.

Practical applications for metric video are expected to increase.

Indeed, the commercial television networks have expressed interest in metric video for sports programming to freeze action for viewers.

The metric video system was displayed as one of only nine Navy inventions at the Worlds Fair for Technology Exchange held in Atlanta, Ga., in February. The inventions selected to be shown were a minute part of the more than 9,000 patents that the Navy holds through its inventors; they were selected as best representative of technology that would return the tax-paying public's investment by encouraging U.S. industry to license and manufacture these items, and to make it possible for the Navy to buy manufactured items based on Navy inventions "off the shelf" at a lower cost than contracting the items on limited production runs.

COMMENDATION LETTER SENT

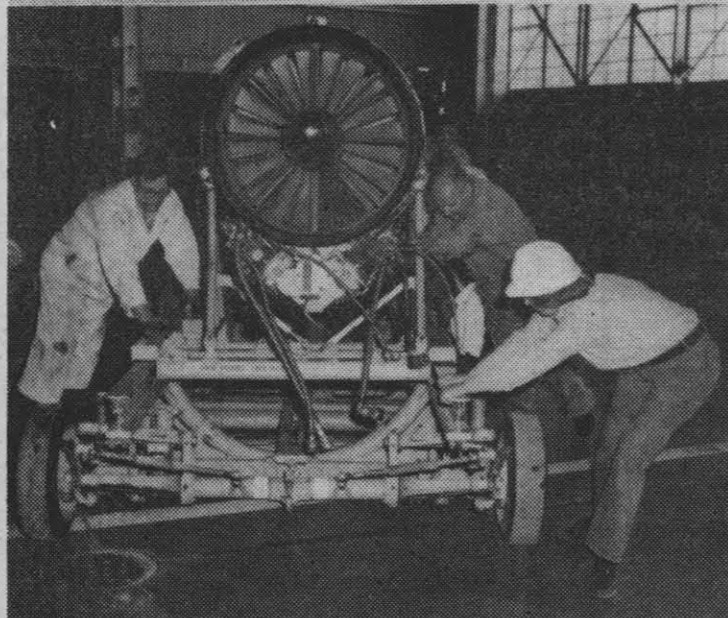
Philip Russell, Public Affairs Officer of the Civil Engineering Laboratory at Port Hueneme, who was in charge of the Navy's exhibit, wrote in a letter of commendation to the Commander, Naval Material Command, that the shuttered video or metric video device demonstrated by Silberberg drew as many as or more people than any booth at the fair. The high entrance fee to the fair (\$500 per person) limited attendance to those who were serious about buying. Dr. Ann Williams, a Patent Attorney from the Office of Naval Research, staffed the booth to provide licensing information to requestors; more requests were received for the shuttered (metric) video than any other Navy exhibit.

Change made in shopping privileges for reserves

The Armed Services Committee of the House of Representatives has approved a change to a Department of Defense directive concerning reservists' exchange shopping privileges.

The new ruling will allow one day of exchange privilege for each drill period instead of one day of privilege for each day of reserve duty. This effectively doubles exchange shopping privileges.

The implementation of this change as it applies to Naval Reservists is currently being worked out.



AIRCRAFT ENGINES SWITCHED — The first step in replacing the latest versions of the J-79 jet aircraft engines from a group of seven RA-5C Vigilante reconnaissance aircraft with older, less valuable power plants prior to destructive testing of the aircraft is being carried out by Naval Reservists from Naval Weapons Center Support Unit 0176. These photos show (top left) AE 3 Randall Kendall (white coveralls) and AD1 Vernon Smith installing a section of metal frame that had to be taken off during the process of removing an engine from one of the RA-5C aircraft. In the photo at top right, a J-79 engine has just been removed and is being hoisted by an overhead crane controlled by ATC Charles Garton (at right). Other Naval Reservists assisting are (l.-r.) OSC John Scannel (back to camera), ASI John Betts, and (par-

tially hidden), ETC Lyle Redfoot. Placed on an engine transportation stand (lower left photo) one of the engines from an RA-5C aircraft is being moved to a work area where accessories can be switched from it to an older, expendable jet engine that will power the doomed aircraft during aircraft survivability-lethality tests. Lending a hand moving the engine transportation stand are (on left) ETN2 Michael Byus and (on right) AD1 Smith and PR3 Nan Outhier (in foreground). After its engines have been exchanged, one of the RA-5C Vigilante aircraft (lower right photo) is rolled out of Hangar 3 at Armitage Airfield to make way for similar work to be done on other aircraft by Naval Reservists of Naval Weapons Center Support Unit 0176. Two weeks of active duty, for training ends this weekend.

Work by reservists results in sizable savings for Navy

Work that was started two weeks ago by members of Naval Weapons Center Support Unit 0176, a local Naval Reserve Air Systems unit, and will be completed on normal monthly weekend drills, will save the Navy \$15 million.

That's the estimate of Capt. Terry Badger, USNR, Commanding Officer of the local Naval Reserve unit that will be winding up its two weeks of active duty for training this weekend.

This project will benefit both the NWC and the Fleet as the latest versions of the J-79 jet aircraft engine are being removed from seven RA-5C Vigilante reconnaissance aircraft that were delivered here for use in tests by the Systems Development Department's Survivability-Lethality and Aircraft Targets Division.

This work by the Naval Reservists involves not only pulling the J-79 engines from the aircraft that are slated for destructive testing, but replacing them with older engines sent here from an aircraft "graveyard" at Davis-Monthan Air Force Base near Tucson, Ariz.

Certain accessory items, such as ducting, are removed from the newer engines and connected to the old ones, which are then installed in the RA-5C reconnaissance craft that will meet their demise in test work at the Aircraft Survivability test site.

The J-79 engines and their afterburners are then prepared for shipment to an overhaul point, such as the Naval Air Rework Facility at North Island, San Diego, prior to being sent to the Fleet as replacements for F-4 Phantom jet aircraft engines.

Happenings around NWC

The Commissioned Officers' Mess announces the opening of its swimming pool to members and guests on weekends starting on May 11. Daily use of the pool will not begin until Saturday, June 7, at which time the hours of operation will be 11 a.m. to 6 p.m. seven days a week.

A special pool opening party for all members is planned on Saturday, May 31, from 6 to 9 p.m. with snacks, soft drinks and beer for everyone at poolside.

This year starting June 17, and every Tuesday thereafter, the COM will host a special family night at the pool. Between the hours of 5 and 9 o'clock on those nights, the pool-side snack bar will have hot dogs, hamburgers, soda pop, and beer on sale at a nominal cost.

Eligible persons interested in purchasing a membership in the COM pool may do so starting May 7 between the hours of 9 a.m. and 4:30 p.m., Monday through Friday.

Pool membership fees for the new season are \$10 per person, \$15 for couples, and \$20 for the entire family. These fees are payable at the COM office, phone 446-2549.

Museum Program

The Amargosa Opera House at Death Valley Junction will be the topic of the next Maturango Museum program, which is scheduled on Thursday, May 8, at 7:30 p.m. in the Burroughs High School multi-use room.

Tom Williams, popular master of ceremonies for the ballet and mime performances of his wife Marta Becket at the opera house, will relate the history of the community of Death Valley Junction and tell how he and his wife came to live there and create the opera house.

Among plans that he and his wife have for extending the activities and programs at

the opera house is to make Death Valley Junction a "desert campus" unaffiliated with any university that will be available to groups who wish to study desert-related subjects.

Everyone in the community is invited to attend this free program.

Desert Night Show

As part of the High Desert Escapade, telescopes will be set up tomorrow evening, at the Desert Empire Fairgrounds for views of the four bright planets Venus, Mars, Jupiter and Saturn.

This desert night show will be sponsored, free of charge, by the China Lake Astronomical Society from 7:30 to 10 o'clock. The brilliant planet Venus will be in its crescent phase.

Mars and Jupiter will appear in a compact cluster together with the bright star Regulus, while the four bright satellites of Jupiter will be visible near the planet.

The rings of Saturn are invisible now because they are edge-on to earth as they are for a few months every 14 years. However, as many as six satellites may be seen lined up on both sides of the planet.

Admission is free.

GEBA/CLMAS Assessment

Assessment No. 503 is now due from members of the Government Employees Benefit Association and the China Lake Mutual Aid Society following the death of Frank Leavell.

Assessments are collected by Larry Mason, GEBA and CLMAS Treasurer. The amount (\$1.80) can be mailed to Mason at P.O. Box 1559, Ridgecrest, CA 93555.

NWC Employees interested in joining can obtain information by telephone Mason after working hours at 446-4794.

Registration of kindergartners to begin next week

Dates and times during which parents or guardians will be able to register children for kindergarten classes that will begin next September, when the 1980-81 school year will begin, were announced this week by the Sierra Sands Unified School District.

Appointments that can be made by calling 375-4461 are required before bringing a child in to be enrolled for kindergarten.

Registration of prospective kindergartners is scheduled from 8 a.m. to 12 noon May 5 through 8 and May 12 through 16 at the Grace Lutheran Church, 502 N. Norma St., in Ridgecrest. For the convenience of China Lake residents, enrollment of kindergartners also will be handled at Vieweg School on Friday, May 9, and Monday, May 12, between the hours of 8 a.m. to 12 noon.

In order to be eligible to attend kindergarten next fall, a child must be five years of age or before Dec. 1, 1980. Proof of age must be presented at the time of registration. This can be in the form of a birth certificate, a duly attested baptismal certificate, a passport, or an affidavit legally executed by the parent, guardian or custodian of the child.

Prior to kindergarten registrations affidavit forms can be obtained at the Sierra Sands Unified School District Office, 113 Felspar St., Ridgecrest.

The State of California requires that children entering kindergarten in public schools must have a series of immunizations, including a series of three diphtheria, whooping cough, and tetanus (DPT) shots and a booster after age 2; a series of two polio shots and a booster after age 2; and shots to protect against measles (rubeola and rubella) and mumps on or after the child's first birthday.

The immunizations may be obtained at a private physician's office, or free at Kern County Health Department clinics. Information on the date and times of health department clinics can be obtained by calling 375-5157.

If the parent or guardian of a child requests exemption from the required immunizations based on personal belief, such a statement must be signed on a form school district officials will provide at the time a child is being registered for kindergarten.

A statement of medical exemption to the immunizations must be signed by a physician.

School nurses will be available at the time children are being registered for kindergarten to check each youngster's vision and hearing, and the school district's language / speech / hearing specialists also will on hand at the same time to check for any speech or language problems.

Hrs. of operation at personalized service store to be changed

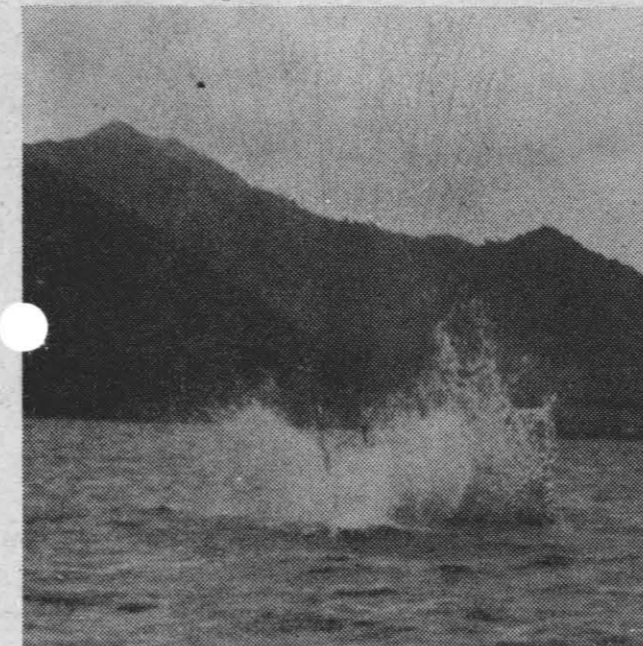
Beginning on Monday, May 12, hours of operation will change at the Navy Exchange personalized services store located at the Navy Exchange service station on Richmond Road.

New hours will be Monday, Tuesday, and Friday from 10 a.m. until 2 p.m. On Wednesday and Thursday the personalized services store will be open from 10 a.m. until 5 p.m., and on Saturday from 9 a.m. until 2 p.m.

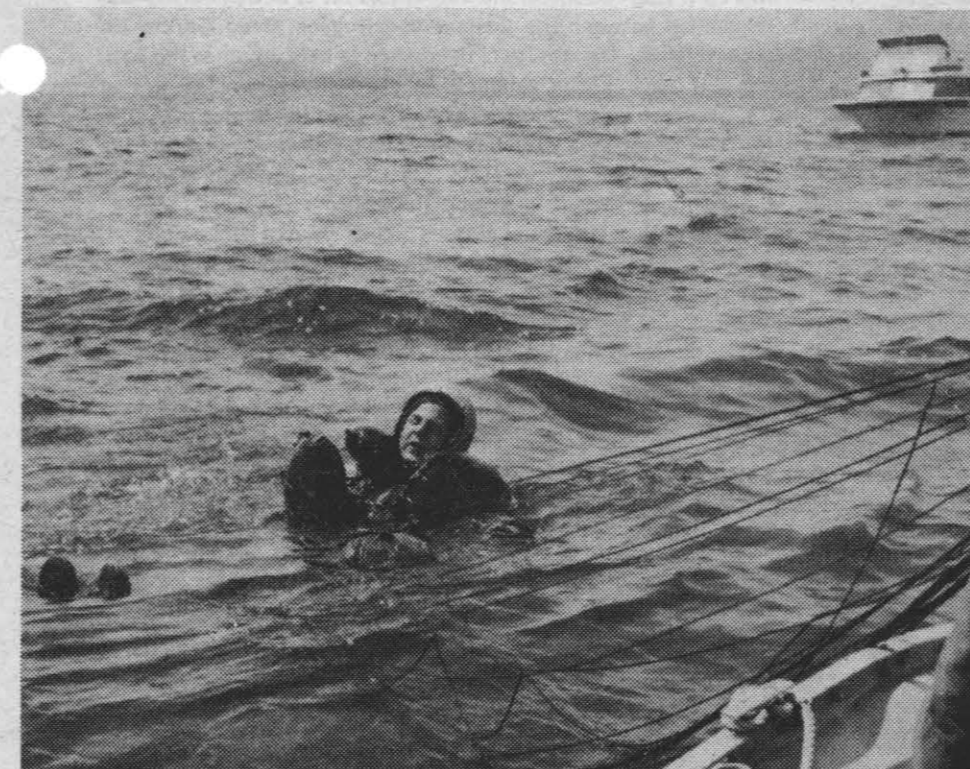
These new hours correspond more closely to the hours that the service station will be pumping gasoline; hours have been cut because patron traffic at other hours does not justify keeping the store open.

Since an optician comes to the personalized services store from Long Beach on military payday (when military payday falls on a weekday), on payday the personalized services store will be open all day from 10 a.m. until 5 p.m. for the convenience of patrons using the optician's services.

NWC parachutists drop in at Lake Isabella for training



DUNKING — A Navy test parachutist encounters a watery touchdown in training jumps conducted at Lake Isabella. Startled fish swam off in all directions as humans plopped into the piscine domain.



BOBBING ALONG — PRAA R. J. Perrolioli bounces on the water's rough surface while awaiting being pulled up to the boat.

Photos by Ron Allen and PHAN Shelly Huffman



WATER SKIING? — Getting a different sort of a ride is a Navy test parachutist whose 'chute is pulling him through the waves.



ROLES REVERSED — A diver in the boat helps unbuckle equipment from a parachutist in the water. Safety for the parachutists is a prime concern on all drops, both training and actual test.

Financial disclosure statements due from some gov't personnel

The Ethics in Government Act of 1978 (EGA) requires the filing of financial disclosure statements (Standard Form 278) no later than May 15.

The Office of Personnel Management (OPM) recently revised the Standard Form 278 — the form used to make the annual financial disclosure report required by the EGA. Copies of the new OPM Standard Form 278 (3/80 rev.) are now being distributed to all personnel required to submit the report this year.

The "April 1979 revised" edition of Standard Form 278 should not be used. Reports submitted on the 4/79 revised edition prior to April 24, 1980, however, will be accepted for this year's filing.

The EGA requires personnel in the following categories to submit a financial disclosure report no later than May 15.

- (1) All civilian presidential appointees.
- (2) Flag and general officers (excluding those only in a frocked status).
- (3) All employees (including special government employees, as defined in 18 U.S.C. 202) whose positions are classified at GS-16 or above in the general schedule or whose basic rate of pay (excluding step increases) under other pay schedules is equal to or greater than the rate for GS-16 (step 1), and
- (4) All employees in the excepted service in positions which are of a confidential or policy-making character, unless their positions have been excluded by the Director of the Office of Government Ethics.

Personnel in category 4 serving in positions classified below GS-16 who are uncertain as to whether their positions have been excluded can clarify their status by contacting the Assistant General Counsel (Ethics), Office of the General Counsel (commercial telephone 202 692-7183). If the position has not been excluded, the Assistant General Counsel (Ethics) will provide Standard Form 278 if it is not otherwise available.

Differential rate for electric power take effect today

Starting today Southern California Edison Co.'s summer schedule for differential rates begins.

On-peak hours (with by far the highest prices for each unit for electricity used) are from 12 noon to 6 p.m. Mondays through Fridays; mid-peak, 8 a.m. until noon, and 6-10 p.m.; off-peak rates (by far the lowest) apply from 10 p.m. to 8 a.m. Mondays through Fridays, and all day Saturdays, Sundays and holidays.

Anyone who has need for large amounts of electricity for test or other operations is asked to schedule these for either mid-peak or off-peak hours when possible.

Under current rates, off-peak power costs approximately .0406 cents per KWH; mid-peak costs .0458 cents per KWH; and on-peak costs .0959 cents per KWH. The on-peak rates are almost 2 1/2 times the off-peak rates.

Photo Society stages shootout for shutterbugs this weekend

The China Lake Photographic Society is encouraging amateur photographers to get their cameras loaded and be ready for a "shootout" during the Hi Desert Escapade tomorrow and Sunday.

Prizes will be given for the three best rolls of 20-exposure color slide film shot during this gala event.

- The contest rules are:
- (1) Load your camera with a fresh roll of color film, preferably 20 exposures.
 - (2) The first exposure on the roll must be a recognizable photo of the photo contest entrant.
 - (3) Take the remaining 19 pictures of one or more of the events listed above during the Hi Desert Escapade weekend.
 - (4) After having the film processed, send the unopened box of color film slides with your name and address to the China Lake Photographic Society, P.O. Box 1822, Ridgecrest, Calif. 93555.

The unopened box of film slides must be received by May 29 for judging. All slides except those singled out as prize winners will be returned by June 9.

The first prize will be a photo album, while second and third place runners-up will receive a 36- and 20-exposure roll of color slide film, respectively.

The first place film slides are scheduled to be shown at the June 5 meeting of the China Lake Photographic Society, which will be held at 7:30 p.m. in the Friendship

Room of the First Federal Savings and Loan in Ridgecrest.

At this meeting, it is hoped that Photo Society members and guests can meet the contest winner, whose film slides will be returned at that time.

Weekend fete . . .

(Continued from Page 1)

The Kerr-McGee Corp. plant in Trona invites the public to inspect operations there, with guided tours of the company facilities slated at 30-min. intervals from 9:30 a.m. and 2:30 p.m.

Back at the East Kern Regional Park, there will be such activities as a Ridgecrest Chamber of Commerce-sponsored auction, games for children of all ages, and a tortoise race on Saturday afternoon, followed that night by a Rotary Club steak barbecue from 6 to 9 o'clock at the Desert Empire Fairgrounds.

Also at the fairgrounds, the Indian Wells Valley Search and Rescue Group will set up a display of mine rescue hoist equipment and, after dark, members of the China Lake Astronomical Society will set up telescopes for viewing the planets Venus, Mars, Jupiter, and Saturn.

On both days of Hi Desert Escapade weekend, local residents and visitors will have the opportunity to see some of the native-wildlife of the Upper Mojave Desert at close range, but safely, at the James Monroe School in Ridgecrest.

An unusual part of this display will be a collection of Mojave Green rattlesnakes that have been gathered for their venom, which is processed at the USC School of Medicine for treatment of anyone unfortunate enough to be bitten by one of these poisonous reptiles.

FOR NAVY NEWS

P.A. LINE
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Multi-faceted air show to be highlight of Armed Forces Day

Flying buffs will see the largest and most varied air show ever presented at the Naval Weapons Center's Armitage Airfield on Saturday, May 10, in what will be the highlight of the Armed Forces Day celebration.

The show will open promptly at 1:30 p.m. with an aerial drop by parachutists from the Center's own Parachute Systems Department, who will present the colors to the watching crowd.

John Harrison of Sacramento, flying a Beech T-34, will be joined by two wingmen flying North American T-6s in an aerobatic demonstration. They will be followed by a short flyby and demonstration performed by Robert Guilford at the controls of a Vought F-4U Corsair of World War II fame.

Showing what modern aircraft can do, a Grumman F-14 Tomcat will then zoom in to display flight characteristics.

With all the aircraft in the sky, one will experience an "emergency" that will result in an ejection seat with its anthropomorphic dummy occupant being ejected from a specially modified Phantom II aircraft, the YF-4. The rescue pickup will be made by a helicopter whirling over the landing site and dropping low to scoop up the "victim."

The Navy's awesome firepower display of some of the multitude of ordnance developed at China Lake begins with aerial drops made by three North American B-25 Mitchell bombers dating from World War II.

The dust and smoke from this exploding ordnance will hardly have cleared before a flight of ten Douglas A-4 Skyhawks, Grumman A-6 Intruders, and Vought A-7 Corsair IIs will zoom over the airfield to drop Mark 82 500-lb. and Mark 83 1,000-lb. bombs.

Four A-4 Skyhawk aircraft will then demonstrate the impressive firepower of the 2.75-in. rocket and the 5-in. Zuni rockets developed at China Lake.

Closing the firepower demonstration will be a flight of seven A-7 Corsair II aircraft strafing the target area with 20-mm. cannon.

The air show will be climaxed by the hour-long spectacular performance of the Blue Angels Navy precision flight demonstration team, flying A-4 Skyhawk II aircraft.

The precision maneuvers demonstrated by the Blue Angels are coordinated and continuous tactical techniques developed in practice and actual combat by Navy and Marine Corps pilots. In carrying out this demonstration with the A-4 Skyhawk II, the Blues exhibit the high performance capability of the attack aircraft as well as the high level of training and skill characteristic of naval aviators.

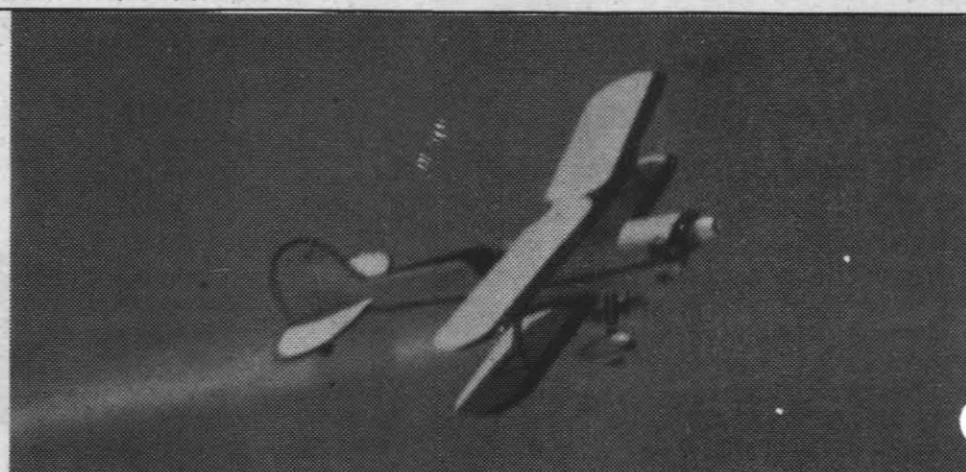
Aircraft on static display

The following aircraft will be on static display at the Naval Weapons Center's Armed Forces Day airshow on Saturday, May 10:

- | | |
|------------------------------|--|
| World War I Fokker | Fairchild Republic A-10 Thunderbolt II |
| Consolidated B-24 Liberator | North American SNJ |
| Lockheed P-38 Lightning | Cessna L-19 Bird Dog |
| Japanese Zero | Convair F-106 Delta Dart |
| Boeing B-29 Superfortress | Grumman F-14 Tomcat |
| Curtis P-40 Tomahawk | McDonnell F-15 Eagle |
| De Havilland Tiger Moth | Grumman A-6 Intruder |
| Republic P-47 Thunderbolt | Douglas C-117 Skytrain |
| North American B-25 Mitchell | North American OV-10 Bronco |
| North American P-51 Mustang | Northrup T-38 Talon |
| Great Lakes biplane | Beechcraft C-45 |
| Vought A-7 Corsair | Republic F-105 Thunderchief |
| De Havilland C-8 (Buffalo) | Lockheed F-104 Starfighter |
| Cessna T-37 | Hawker Sea Fury (1961) |
| Beechcraft T-34 Mentor | Bell AH-1 Huey Cobra |
| Lockheed S-3A Viking | Sikorsky H-53 Sea Stallion |
| Grumman E-2 Hawkeye | Boeing H-46 Sea Knight |
| Douglas A-4 Skyhawk | Quickie (homebuilt) |
| Rockwell T-39 Sabreliner | Sail plane |
| Convair C-131 Samaritan | Pitt Special |
| North American F-86 Sabre | Homebuilt racer |



LOW LEVEL FLIGHT — Spectators will get a chance to view Blue Angels precision flight at nearly eye level during their spectacular performance.



UNDER CONTROL — The radio-controlled model aircraft use the same technology that is used for drone flights and other remotely piloted vehicles used by the Armed Forces. In the lower picture Ron Gotzler demonstrates how the airplane is controlled.

Model aircraft flying club members to put miniature planes through paces

Flying enthusiasts will have the opportunity to watch a very different sort of flight demonstration before the air show, scheduled for the Naval Weapons Center's Armed Forces Day celebration, begins.

Starting at 11:30 a.m., the Valley Vultures, a radio-controlled model aircraft flying club, and representatives from model aircraft companies will demonstrate the flying capabilities of these craft at the flight line.

The model craft, whose wingspan may be six feet or more, represent investments of not only hundreds of dollars but also hundreds of hours of painstaking care in their building. The same technology used in flying the radio-controlled models is used in flying military remotely piloted vehicles (RPVs); many of the Center's senior engineers and scientists build and fly radio-controlled airplanes as a hobby.

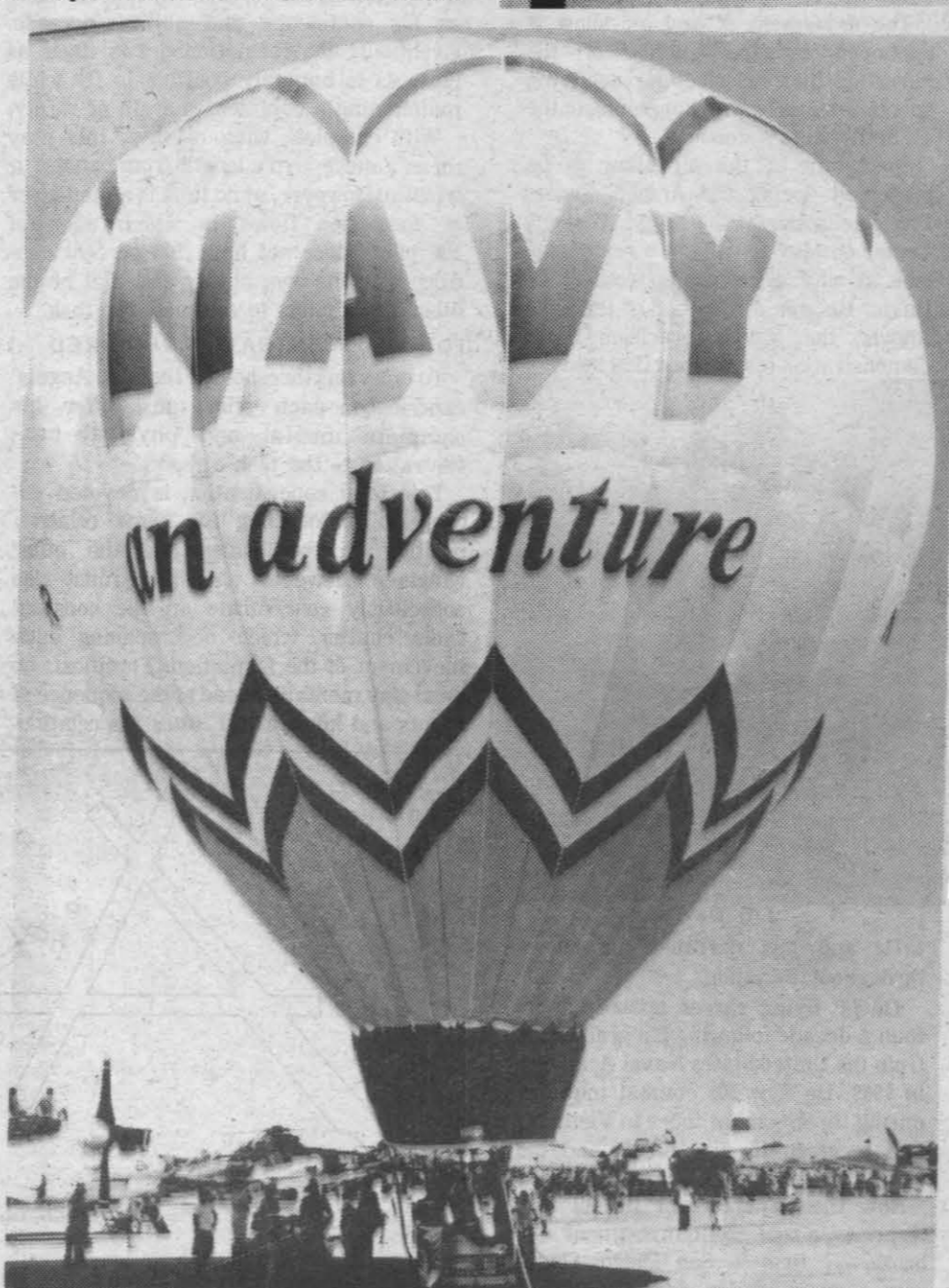
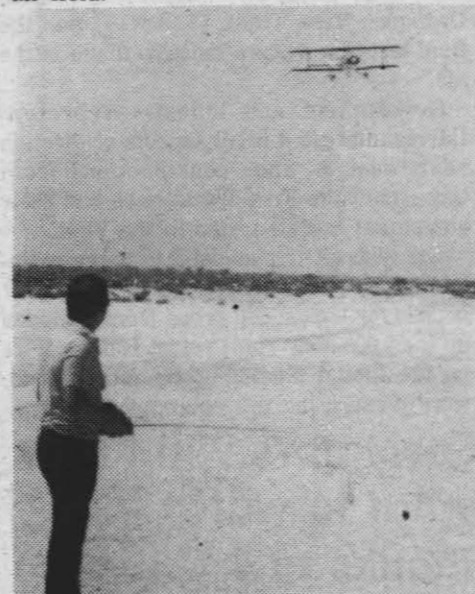
A biplane emitting smoke while performing aerobatics will begin the model aircraft flight demonstrations. This will be followed by a display of bombing and dogfighting by model military aircraft built by Valley Vulture members.

Professional modelers will then put on a demonstration of aerobatics with a helicopter model and low-level aerobatics

with the "Dirty Birdie", a model with a 6-foot wingspan powered by a Rossi 61 engine.

The demonstration will finish with members of the audience being invited to try their hands at flying a radio-controlled model.

The Valley Vultures will also exhibit a number of their models in Hangar 3 at the air field.



LOT OF HOT AIR — LCdr. Bill Roberson leads the three members of the Navy's hot air balloon team who will demonstrate the capabilities of this colorful giant.

Wide variety of activities await visitors

The hours between the opening of Armitage Airfield to visitors at 9:30 a.m. and the start of the air show at 1:30 p.m. will be pleasantly full for visitors to the Armed Forces Day celebration.

A total of 49 aircraft will be on display on the apron surrounding Hangar 3 at the airfield. These include not only sleek modern craft such as the F-14 Tomcat and F-15 Eagle, but also classic World War II aircraft such as the B-24 Liberator bomber and the P-38. A real classic is a beautifully restored World War I Fokker. Representatives of the War Birds of America and the Planes of Fame will have these and other aircraft on display.

MISSILES TO BE DISPLAYED

Inside giant Hangar 3 will be displays of Sidewinder and Sparrow air-to-air missiles, Interactive Graphics, and other NWC programs and projects. Contractors involved in work at the Center will have industrial exhibits on display, and films and slides of both NWC and contractor projects will be shown.

Displays and demonstrations dealing with life saving and safety will be sponsored by the China Lake Mountain Rescue Group, the Indian Wells Valley Search and Rescue Group, the Parachute Systems Department, and NWC Fire Division paramedics. The Mojave Green Project team will have a cage full of live rattlesnakes on display, and will dispense suggestions on how to avoid getting bitten. The Bureau of Land Management and Forest Service will be represented by Smokey the Bear and Woody Owl, who will tell about the exhibits of these two organizations.

CERAMICS SHOW SLATED

NWC Special Services Division is sponsoring a ceramics show.

Snacks, soft drinks, and beer will be sold by the Navy Wives Club, the Navy Exchange, and a number of other organizations to enable visitors to keep their strength up as they tour the extensive display area.

Those attending the giant air show and touring the exhibit areas at the Armed Forces Day celebration are reminded that they will enjoy their day more if they bring folding lawn chairs or blankets to sit on during the air show; bleachers will not be available.

With May's sunny days, sun glasses are in order.

Hot air balloons will add color to events at air field

By the time the spectators start reaching Armitage Airfield at 9:30 on the morning of Saturday, May 10, more than a half dozen brightly colored hot air balloons will be poofing up, getting ready to fly.

The majority of these are from a hot-air balloon club based in Oakland, Calif., whose members are traveling here to help celebrate the Naval Weapons Center's Armed Forces Day. When all these bobbing giants are ready to launch, they will engage in a totally new event for a Center air show—a hot air balloon race floating free where the Indian Wells Valley's winds take them.

Remaining behind will be the Navy Recruiting Command's own hot air balloon, a red, white, and blue giant brought to China Lake from the Naval Weapons Evaluation Facility at Albuquerque, N.M., for the day's events.

More than 56,000 cubic feet of hot air are required to fill the huge balloon's 60-foot height and 50-foot diameter. Letters on two sides of the balloon proudly proclaim "Navy—An Adventure."

LCdr. Bill Roberson will lead the three members of the Navy's eight-person balloon team who will accompany the balloon to China Lake and demonstrate its flight at Armitage Airfield.



nwc rocketeer

1980 Armed Forces Day observance features famed Navy Blue Angels



COME ONE, COME ALL — Capt. W. B. Haft, NWC Commander, and Bob Hillier, NWC Technical Director, invite everyone to join the Naval Weapons Center in celebrating Armed Forces Day on Saturday, May 10. Theme of this year's celebration is "The U.S. Armed Forces—Strong and Ready," a particularly appropriate idea in view of current events.

Air show to include firepower display

Providing the big bangs for the display of Navy firepower will be two types of bombs: the Mk 82 and Mk 83 general purpose bombs.

The Mk 82 bomb is a 500-pound bomb; its big brother, the Mk 83, doubles that at 1,000 pounds.

Both of these are used by Navy, Marine Corps, and Air Force units on attack aircraft, and by the Air Force on its B-52 bombers.

The bombs will be dropped by a flight of ten A-4, A-6, and A-7 aircraft on targets sufficiently downrange to be safe, yet

sufficiently close to the viewing area so include spectators may see the power of the ordnance.

The 2.75-inch folding-fin aircraft rocket (FFAR), better known as Mighty Mouse, has been in service use since 1952. Originally designed as an air-to-air rocket, it is now used for air-to-surface and surface-to-air targets as well by all three United States military services and by NATO nations.

The FFAR is fired from Air Force and Navy attack aircraft and Army helicopters, with the Army currently being the heaviest

user of the 2.75-inch rocket.

The 5-inch Zuni rocket is a high velocity air-to-ground rocket designed to serve as a flak-suppression, antipersonnel, antimatériel, antitank, and general purpose weapon. It has been in use since 1957, and can be used by both propeller-driven and jet aircraft.

Both the 2.75-inch and the Zuni rockets will be fired from four A-4 aircraft making passes over the air field.

The firepower demonstration will close with strafing runs by seven A-7 aircraft firing 20mm. cannon.



READY TO FLY — Members of the Blue Angels line up on the flight line in front of one of their A-4 Skyhawk II aircraft. They are (l. to r.) Lt. Kent Horne, LCdr. Jack Ekli, LCdr. Mike Nord, Capt.

Fred Stankovich, Crd. Denny Wisely, LCdr. Jim Horsley, Lt. Jim Ross, and Lt. Randy Clark. The Flight Leader is Cdr. Wisely, and Lt. Clark serves as narrator.

NWC's own test 'chutists will open air show

The spectacular air show celebrating the Naval Weapons Center's Armed Forces Day will begin when Navy parachutists PR3 Clifford Mathews and PR2 Harvey Hartman unfurl the American flag and the Navy pennant while floating to earth as the national anthem plays.

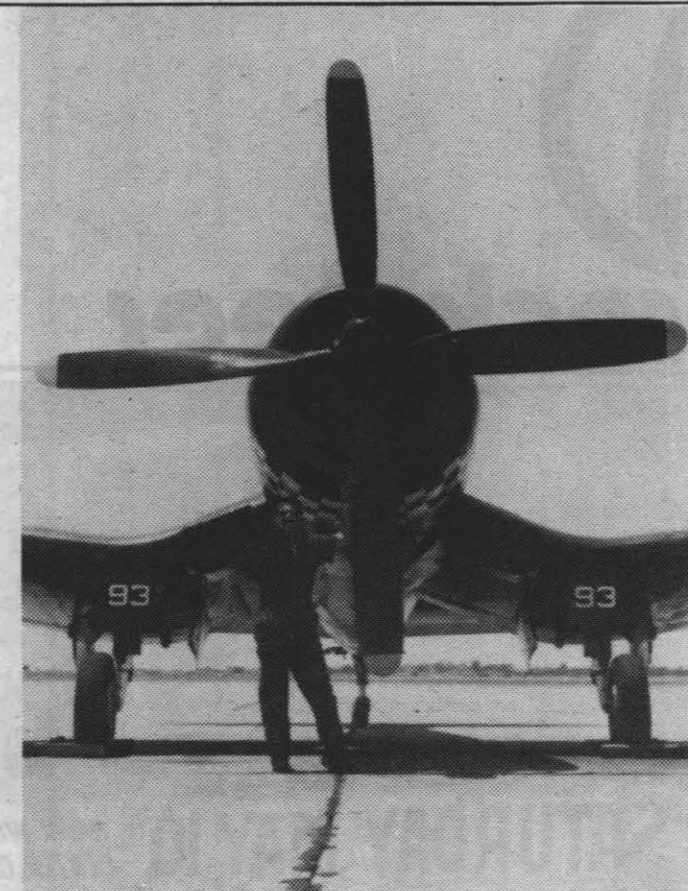
These two parachutists will jump from an altitude of 6,000 feet, and will delay 20 seconds before opening their parachutes. Four more test parachutists from the NWC Parachute Systems Department will then take to the air from 8,500 feet in a display of aerial coordination and control.

First out of the aircraft will be PR1 Marshall Hager, who will form one half of a diamond track. The other half of the diamond will be formed by PRCS Ronald Allen. Dropping through the center of the diamond will be PR2 James Woolley and PR3 Robert Hudson; the varicolored smoke tracing their movements will create a barber pole effect as they settle to earth in front of the spectator area.

The parachutists participating in the air show are part of a small group of Navy men and women in the Parachute Systems Department who are qualified as test parachutists.

The only qualified women test parachutists in the Department of Defense, PR2 Anne Mooney and PRAA Lisa Arsenault, share in testing parachutes and survival equipment as well as taking part in a biomedical research project.

The Parachute Systems Department, the National Parachute Test Range, El Centro, before its move to China Lake in 1979, is tasked to conduct and support the research, development, test, and evaluation efforts of all Department of Defense and other U.S. government agencies in aircraft emergency escape, aerial cargo delivery, midair recovery, and other systems involving parachutes and related subsystems and components.



World War II F-4U Corsair

Corsair, World War II vintage aircraft, to take part in air show

Flying a Vought F-4U Corsair at the Naval Weapons Center's Armed Forces Day air show is Robert E. Guilford. He is also the owner of a North American P-51 Mustang which will be flown by his partner, David Price, an ex-Marine fighter pilot.

Both aircraft will be on static display during the morning and will participate in a flyby during the show itself.

Guilford, a graduate of Harvard Law School and attorney practicing in Marina del Rey, collects and flies World War II fighter aircraft as a hobby. He has more than a thousand air hours in three fighter types (P-51 Mustang, F-4U Corsair, and Gruman F-8F Bearcat) and has raced these aircraft at Reno, Mojave, San Diego and Cleveland.

The F-4U Corsair he will be flying to China Lake is painted to look like the Corsairs flown by "Pappy" Boyington's Baa-Baa Blacksheep Squadron in World War II.

The aircraft itself, however, is an F-4U7, built for the French Navy in 1952, rather than the F-4U4 used by Navy and Marine Corps fighter squadrons toward the end of World War II. It is powered by a Pratt and Whitney R2800 engine, having a horsepower output of 2300, and is capable of a sustained speed of approximately 450 miles an hour with a service ceiling of 42,000 feet.

The P-51 Mustang, originally ordered in 1940, saw combat in World War II, and was the most numerous Allied aircraft over the battlefield in Korea. Early Mustangs had a speed of nearly 450 miles an hour and a ceiling of 41,900 feet. A total of 14,886 of these aircraft were built.

Blue Angels top attraction at air show

Teamwork, precision, and discipline are the watchwords of the Navy's precision flight demonstration team, the Blue Angels. Each of the 15 officers and 74 enlisted personnel assigned to the Squadron plays a necessary role in serving the mission of the Blues.

By presenting a faultless display of aerial artistry to what has now exceeded 138 million spectators in the 34 years of the Squadron's existence, the Blue Angels seek to attract talented and qualified youth to join them in the Navy and Marine Corps. This is a vital function in the all-volunteer naval force. As "Ambassadors of Good Will," the Blue Angels take naval aviation to the public as a means of demonstrating the quality of men and equipment by the Naval service.

Seven of the officers are tactical jet

pilots; six of these fly in the precision demonstration, and the seventh serves as narrator for the demonstration and also provides orientation flights for media personnel. A team of 22 enlisted personnel travels with the Blue Angel flight team to maintain the A-4 Skyhawk II aircraft in top condition; their expertise is such that no demonstration has ever had to be cancelled for maintenance problems.

The aerial ballet is flown by six aircraft in three components: a diamond of four, two solo aircraft opposing each other in line of flight, and a delta of all six aircraft.

The precision maneuvers demonstrated by the Blue Angels are coordinated and continuous tactical techniques developed in practice and actual combat by Navy and Marine Corps pilots. While in combat these tactics may be flown from treetop level to

altitudes of more than 60,000 feet, during an air show the Blues bring all maneuvers down to eye level.

The average Blue Angel flight team member has spent at least four to six years on active flying duty; accumulating the minimum of 1,500 flying hours needed to qualify takes at least that long. All must be willing to travel extensively, spending more than 200 days each year on the road to bring the Navy's message throughout the world. On completion of their assignment to the Blues, these officers return to operational squadrons to share their expertise with other aviators.

The Skyhawk II aircraft flown by the Blue Angels dates from 1972; it is the modern version of the A-4 that served in the Korean War as a ground support aircraft. The

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Many events slated before, during Armed Forces Day

Thursday, May 8	2 p.m.	Blue Angels arrive from Marine Corps Air Station, El Toro, Calif.
6:30 p.m.		Reception and dinner for Blue Angel officers at Commissioned Officers' Mess. Attendance is by invitation only because of limited seating available.
7 p.m.		"Blue Angel Night — Meet the Crew." The Enlisted Advisory Board is sponsoring a free social gathering at the Enlisted Mess to honor Blue Angel enlisted personnel. All NWC and tenant command enlisted personnel, spouses and guests are especially invited, and all civilians are welcome. Free hors d'oeuvres and beer will be served. Entertainment will follow introduction of Blue Angel crew members.
Friday, May 9	8:30 a.m.	Blue Angel members will visit Burroughs and Trona High Schools, accompanied by a Navy Recruiter from the Ridgecrest Recruiting Office.
10 a.m.		Ridgecrest radio station KLOA will broadcast an interview with a Blue Angel team member.
3 p.m.		Blue Angel practice show at Armitage Airfield will last about an hour. Special groups will be invited to watch.
7 p.m.		Navy Appreciation Night with the theme "America Is Alive and Well in Ridgecrest, U.S.A." will be sponsored by the Ridgecrest Chamber of Commerce at Joshua Hall, Desert Empire Fairgrounds. All military personnel and their wives will be guests; a \$5 donation is asked of everyone else. A social hour precedes a formal introduction of the Blue Angels, and presentations to the Navy by Congressman William Thomas and other dignitaries at 9 p.m. Dancing to the music of the "Marauders" begins at 9 p.m. Tickets may be purchased at the Ridgecrest Chamber of Commerce, Hucek's Travel Service, and the NWC Program Coordinator's Office in Michelson Laboratory.
Saturday, May 10	9 a.m.	Third annual Armed Forces Day slow pitch softball game held at Schoeffel Field features the

9:30 a.m.		Naval Weapons Center competing with a team from Air Test and Evaluation Squadron Five. Gates open to public at Armitage Airfield.
9:30 — 4 p.m.		Static displays and demonstrations in Hangar 3 include NWC programs and projects, community-based organization projects, radio-controlled model aircraft, and a ceramics show. Surrounding the Hangar will be 49 military and civilian aircraft, both vintage and modern. Refreshments will be sold.
9:30 — 11 a.m.		Hot air balloon demonstration and display by Navy hot air balloon team and by members of a hot air balloon club.
11 a.m. — 12:30 p.m.		A Navy lunch will be served at the Enlisted Dining Facility to those who have previously purchased tickets.
12:30 p.m.		Radio-controlled model aircraft flight demonstration at the flight line.
1 p.m.		The Naval Weapons Center Sidewinder drill team will present an exhibition at the air show site.
1:30 — 3:30 p.m.		Air Show events (in order of appearance) Parachute demonstration, Parachute Systems Department Aerobatics performed by T-34 and two T-6 aircraft. Demonstration flight of F-4U aircraft by Bob Guilford, pilot. F-14 aircraft demonstration. YF-4 Phantom ejection seat exhibition and helicopter pickup. Firepower display B-25 aircraft ordnance drop. A-4, A-6, and A-7 aircraft dropping Mk 82 and Mk 83 bombs. A-4 aircraft firing 2.75-in. rockets and 5-in. Zuni rockets. A-7 aircraft strafing an area of the airfield with 20 mm. cannon. Blue Angel Navy Precision Flight Demonstration.
6 p.m.		Blue Angels depart for Naval Air Station, Lemoore, Calif.

YF-4 serves as airborne test bed for ejection seats

When an "emergency" is declared during the air show held in celebration of the Naval Weapons Center Armed Forces Day and a pilot (actually an anthropomorphic dummy) is ejected to float to earth, spectators will see a unique aircraft in action.

The YF-4 Phantom aircraft from which the "bail out" occurs is the only one of its kind in the Free World; this aircraft has been specially modified to serve as an airborne test bed for tests of ejection seats.

All nonessential gear has been stripped from the craft. The rear seat is sealed from the front cockpit so that a number of different kinds of ejection seats can be tested by being fired from the cockpit at up to supersonic speeds.

Photographic gear within the craft permits a complete look on film at what happened during an ejection, while the aircraft itself is painted white for better photo resolution for aerial pictures taken from chase planes.

Lives of aircrew members depend on an ejection seat being failure-proof. Seats and seat components are carefully designed and tested on the ground, both statically and on test sleds on NWC's Supersonic Naval Ordnance Test Track (SNORT), but the final test of a system must be made in the air.

Government and industry representatives interested in all aspects of ejection seat design and construction from throughout the Free World have had their equipment models tested in the YF-4.

The aircraft is also used to carry cylindrical type test vehicles weighing up to 8,000 pounds for high speed drops from altitudes up to 50,000 feet. The Project Galileo tests for the Jupiter landing probe, for instance, were made using this equipment.

Spectators will know what to watch for, thanks to J. D. Davis

The enjoyment of any air show is enhanced by the quality of the narration that describes for nonflying spectators just what is happening in the air and what to watch for.

Spectators at the air show to be presented during the Armed Forces Day celebration at the Naval Weapons Center on May 10 will get a real inside look at what's happening from J. D. Davis. He was a member of the Blue Angels, the Navy's precision flight demonstration team, from 1969 through



J. D. Davis

1971, and has narrated air shows throughout the nation.

Davis' flying career spanned more than a decade following his graduation from the United States Naval Academy in 1962. He flew 301 combat missions during three combat tours in Vietnam, and received 18 Air Medals and the Navy Commendation Award.

Now the owner/broker of del Enterprises, a real estate investment and brokerage firm in San Diego, Davis serves as narrator for air shows sponsored by Department of Defense activities as a public service.



SPECTACULAR SIGHT — Demonstrating their precision aerial teamwork, the six aircraft of the Blue Angels rendezvous in a delta formation preparatory to performing looping and rolling maneuvers. This is followed by a formation landing. Practice and discipline developed during hundreds of hours of flying make such precision maneuvers possible while still maintaining an adequate margin of safety.

Blue Angels display timing, discipline...

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Skyhawk II is powered by a Pratt and Whitney J52-P-408 turbojet engine, providing 11,200 pounds of thrust — 45 percent more than the original A-4. It can fly from aircraft carriers and airfields as short as 4,000 feet, and its combination of high power and light weight give it impressive maneuverability.

Heart of the skill required for flying the precision flight demonstration is practice of the maneuvers.

During the winter training cycle the diamond pilot starts at a great distance from his comrades and slowly moves closer as his confidence and ability increase. Eventually the formation draws itself as close as is humanly possible to fly while maintaining a confident margin of safety.

With complete wing overlap, this may mean a mere arm's length from canopy to wingtip. However, at no time is a maneuver or formation flown in which each of the pilots does not have 100 percent confidence in his own ability and that of the other three pilots to complete the task.

TOTAL CONCENTRATION REQUIRED
To cross this threshold of the Blue Angels' experience, each pilot must offer his complete mental and physical concentration to the task at hand.

This total concentration is devoted entirely to maintaining the same relative position on the leader and the other wingmen. However, each pilot must also consciously concentrate on the constant radio chatter which accompanies each movement of the formation. Foremost, he must stay mentally ahead of the sequence of events and know at all times his relation-

ship to the other aircraft in the formation and the ground below.

All of these items are accomplished through practice and discipline developed over hundreds of hours of flying tactical jet aircraft.

The solo pilots train for their portion of the demonstration as a separate entity from the diamond. This is because the techniques and emphasis for the diamond and solos are different.

The same degree of concentration is required of the solo pilots as of the diamond pilots. However, the focus is on exact timing and precise consistency of each maneuver

while operating in a very low altitude environment. The importance of timing is emphasized by noting that for every one second of error a maneuver is displaced one-eighth of a mile.

The lead solo pilot sets the flight path and the movement of his aircraft in a uniform pattern so that the opposing solo will be able to match his every move. This requires that each pilot be able to fully anticipate the other's actions and that he knows without fail the sequence of events to take place.

SOLOISTS PRACTICE LONG, HARD

The preparations by the solo pilots during winter training result in breathtaking accuracy on the day of each performance. Daily practice allows the solo pilots to descend to and complete their maneuvers at altitudes below 100 feet and still be 100 percent safe.

A final demonstration of aerial teamwork comes when all six aircraft rendezvous into a delta formation and perform looping and rolling maneuvers. This is followed by a formation landing of four or all six aircraft, depending on the length and width of the runway in use.

Teamwork, precision, and discipline are not confined to the aerial demonstration but are also present in every Blue Angel operation from the crisp way in which pilots man their aircraft to their final deplaning procedures.

Each Blue Angel's performance, his pride, dedication and professionalism are representative of an image that is fleetwide, an image that has resulted in a long-lasting tradition in naval aviation.

