



BOOST FOR NAVY RELIEF — The king-size replica of a check for \$14,447.54 — representing the contribution made by Naval Weapons Center personnel (principally those in the military service) to the Navy Relief Society — was presented last Friday, July 2, by Capt. Lahr to Richard Gaynor, executive director of the Navy Relief Society headquarters in Long Beach. Shown with the NWC Commander during the check presentation ceremony are (l-r.) Lt. Ed

Torrence, Navy Relief officer for NWC; Mrs. Lilliane Greene, chairman of NRS volunteers; Gaynor; Cdr. C. E. Gartrell, co-chairman of the recently-concluded NRS fund drive; and Mrs. Carol Dieckman, an NRS volunteer interviewer. Most contributions (\$10,760) were in the form of payroll deductions authorized by military personnel. Cash and checks totalling \$3,687.54, made up the balance of the total. — Photo by Don Cornelius

Annual fete set once more

Ice cream social

What has come to be one of the annual summertime family fun events at China Lake — the ice cream social sponsored by the Protestant Women of the Chapel — will be held on Tuesday, July 20, from 6 to 8:30 p.m. on the lawn at the All Faith Chapel.

There will be ample servings of ice cream, along with the patron's choice of either homemade cake or pie. Coffee, tea and punch also will be included for donations of \$2 for adults and \$1 for children 11 years of age and under.

Tickets to the ice cream social can be obtained in advance on weekdays at the All Faith Chapel office, and also will be sold on the evening of July 20.

A large number of tables to accommodate the anticipated throng of between 900 and 1,000 persons who regularly attend this

Thrift Shop plans half

price sale next week

Families planning for vacations this summer will find the Thrift Shop's half-price sale next week a big help in getting clothes and other items needed.

Thrift Shop hours are Tuesday from 7 to 9 p.m., and Thursday from 10:30 a.m. until 12:30 p.m. It is located on Lauritsen Road, across from Schoeffel Field.

AFGE to meet Monday

The American Federation of Government Employees, Local 1781, will hold its regular monthly meeting on Monday at 7 p.m. at 520 E. Inyokern Road, China Lake.

MOVIES advertisement listing showtimes and titles for various days of the week, including 'RAIDERS OF THE LOST ARK', 'LOVING COUPLES', 'FOUR FRIENDS', 'SLEEPING BEAUTY', and 'THE GREAT MUPPET CAPER'.

Open house in new quarters slated by local drama group

After one and a half years of renovating the old Station Restaurant to theatrical specifications, the China Lake Players are raising the curtain tomorrow for the grand opening of their new theater.

The theater, located on the corner of Blandy Avenue and Lauritsen Road, is the result mainly of volunteer work done on weekends by members of the China Lake Players. The work involved moving seats from the group's old hut on McIntire Street and installing them in the new theater, as well as setting up lights and curtains.

The grand opening celebration gets underway with a ribbon cutting at 7 p.m., followed by refreshments and tours of the theater. A variety show at 8 p.m. rounds out the evening.

"Entertainment in All the Media" will be the theme of the variety show, with narrator Ralph Vuono introducing selections from vaudeville, drama, radio and television.

Vaudeville will be represented by a number of classic songs: "Blue Moon," "That's Entertainment," "Cabaret," and others will be sung by Jim and Ronnie Goss, Sandee Schwarzbach, Judy Vuono, and John Bell. The singers will be accompanied on the piano by Beverly Bell.

The China Lake Players will also recreate an old radio show, will do a take-off on the Carol Burnett TV show, and enact a scene from the play "You Know I Can't Hear You When the Water's Running." Participants in these selections are Gerry Baker, Roselle Goza, Ken Austerman, Fred Stahlman, Rudyard Stone, Natalie Stone, and Susan Cragin.

Ken and Myrna LaBaw will be the hosts for the evening.

All interested persons are welcome to attend this admission-free event.

Visit to Pioneer

Town in Bakersfield arranged for youths

A trip to Pioneer Town, a reconstructed 19th century village in Bakersfield, is planned next Friday, July 16, for boys and girls 10 through 14 years of age. The trip is limited to a group of 15.

In addition to seeing Pioneer Town, the young people will visit a natural history museum in Bakersfield and play on the Wild and Wet Slides in the afternoon sun.

Departure is set for 7:30 a.m. from the Community Center, and the participants in this summertime activity for youths will return at 4:30 p.m. A van will be used for transportation.

In Pioneer Town, the visitors can relive the "olden days" as they examine restored cabins, mines, and a bakery and blacksmith's shop that look as they did over 100 years ago.

Mary Lambton, assistant director of community services, and other adults, will accompany the young people to and from Bakersfield.

Reservations for the trip at \$12 per person must be made by Thursday, July 15.

Dance tonight at EM

A variety of funk and rock music will be played tonight by the Reckless band — a local group — at the Enlisted Mess, with dancing beginning at 9 o'clock.

Dinner speciality of the evening will be turf and surf, served from 6 to 9 p.m. in the dining room of the EM.

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Meeting called to air problems of feral horses

Now that the Center's burro management program is proceeding successfully, the management of the size of the feral horse herds can be considered as part of the Navy's overall grazing management program.

This program is designed to protect the environment and native species on lands for which the Navy is steward. Horses will be permitted to remain on the ranges; it is only the number of horses that the range can support that is under consideration.

A public scoping meeting will be held at 7 p.m. on Thursday, July 15, in the Cactus Room of the Community Center to permit the public to comment on proposed actions.

Comments at the meeting will be limited to five minutes per speaker. Written comments will also be accepted until Monday, Aug. 16. These must be sent to the Naval Weapons Center; Attention: Public Works Officer (Code 2632); China Lake, CA 93555.

The firm of Phillips Brandt Reddick has been awarded a contract to prepare an Environmental Assessment (EA) on the herd management program. This EA will consider the following alternatives: a herd management program compatible with the welfare of native species, water, and carrying capacity of the habitat; adoption of horses by private citizens; auction of horses removed from the Naval Weapons Center; other methods of population control; and no project.

The differences in social structure between the feral burro and the feral horse make maintaining horses on the Center more feasible than maintaining any burros.

Neither the horse nor the burro is native to this area, and no predators exist in nature here that will attack them. Their population size tends to grow to fill any voids. The Center's horse herds, however, have not been found to impact the environment as the burro herds do.

Horse herds can maintain a stable population level because the main herds are under the control of an "alpha" or lead stallion who has a long term male-female

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Military bases join with NASA to protect desert air quality

High desert military activities and the National Aeronautics and Space Administration (NASA) located in restricted air space R-2508 have joined in their effort to protect the level of visibility now existing in the upper Mojave Desert required for their essential test and flight operations.

They are not endeavoring to roll back standards to an earlier time, but merely to protect the air quality now existent.

The Naval Weapons Center, NASA, Edwards Air Force Base, Air Force Plant 42 (scheduled for bomber production), George Air Force Base, and Ft. Irwin are holding a series of meeting with air pollution control boards from the regions whose air affects high desert air quality.

These bases, whose combined payrolls and budgets exceed \$1 billion annually, require good air quality for the visibility needed to conduct tests and flights essential to their respective national defense and space missions.

The current effort is to establish the means to set standards for visibility. Initially, the thrust will be to monitor air quality in a region that runs from the crest of the Sierra Nevada to the Nevada border, and from the northern edge of R-2508 south of Highway 58 to Palmdale.

This monitoring to establish what the current air quality actually is will be done at no cost to the communities involved because the bases have budgeted approximately \$700,000 required for the first year's work. All that would be asked of the air pollution control districts would be establishment and enforcement of regulations dealing with



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Long range planning on acquisition, use of computers now underway on Center

"The world of computers and computer applications is a very dynamic one that cuts across nearly every field of endeavor at the Naval Weapons Center."

That's the assessment of Bruce Wertenberger, NWC's automatic data processing (ADP) resources manager, who is involved in and has oversight responsibilities for the development of a strategic plan for computers based on the Center's needs.

The scope of this task reaches the mind-boggling stage when it is realized that currently an estimated one-third of the NWC budget is related to computer equipment purchases and leases, maintenance of this equipment, development of software and hardware embedded in weapons systems and components, and the use of computers as analytical tools in support of RDT&E efforts, including the efforts of employees whose work involves preparing data that is fed into a computer and then analyzing the results.

WIDELY VARIED USES

Computer use ranges from keeping track of dollars for the Office of Finance and Management and storing information on the inventory of supplies and equipment that is maintained by the Supply Department, to the analysis that goes into the design of a missile or weapon system, followed by the simulation of missile flights before the hardware itself is ever launched.

Center management realized that there was a need for long range planning on how NWC acquired and used computers, as opposed to the piecemeal approach that generally has been the rule. With this in



IT'S OPERATIONAL — William Ball (seated) outlines the importance of digital computers and their associated software to the A-6 aircraft program. Ball, who heads the Software Engineering Task Team, is shown with Bruce Wertenberger (at left) and Dr. E. K. Kutchma, head of the Aircraft Weapons Integration Department.

mind, B. W. Hays, then Deputy Technical Director, set forth the need for the development of a large base of computer capability with individual increments that, although project oriented, could be mutually supportive and inter-related. To reach this point, however, there was the need for extensive planning.

Spearheading this effort, in addition to Wertenberger, are Dr. Ed Royce, head of the NWC Research Department and acting Director of Computer Applications, and Dr. William G. Lane, a consultant who is on a year's sabbatical leave from California State University at Chico. The latter, who has been associated with NWC for several years, established the graduate program in computer science that is offered here by Chico State, and has taught courses that are given as part of this program.

This trio has cognizance over the activities of a number of task teams that are involved in filling in the fine points of a long-range plan for computing at the Naval Weapons Center without disturbing on-going Centerwide projects that rely so extensively on computer applications.

There is the Finance and General Policy Task Team, headed by Dr. Richard E. Kistler (Code 08), whose purpose it is to

develop Center-wide policies and implement procedures that will make it possible for computing equipment and facilities to be truly available as a tool for all Center personnel — regardless of organizational affiliation and/or the particular computational need.

This is a necessity because, in the past, each organization on Center essentially "did its own thing" in the acquisition and application of computer equipment without much regard to the needs of other groups individually, or to the Center as a whole. In the vacuum created by the lack of a Centerwide policy on computing, practices have grown up that are counter to coordinated development and/or a shared system use, according to Dr. Royce.

The Software Engineering Task Team, headed by William Ball (Code 311), is responsible for the development and implementation of software design, documentation, and control procedures that are (1) easily understood, (2) usable by the average person, (3) applicable to the total product life cycle, and (4) supported by automated tools where possible and appropriate. Additionally, it is the intent that whatever is done must not unnecessarily complicate or extend the program development period.

The Systems Acquisition and Support Task Team, headed by Bryan Hill (Code 3875), has the task of developing cost-

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Earthquake centered in NWC range area hits on July 4th

The Fourth of July locally was an earth-shaking event — literally, because light sleepers were awakened at 5:44:08 by a temblor that measured 4.0 on the Richter scale.

The epicenter of that quake was located near Tower One, north of Charley Tower. Earthquake swarms felt earlier this year were centered near Charley and Baker Towers.

No damage was reported as a result of either the main quake of the day or minor shocks that preceded and followed it.



COMPUTER WORK STATION — Defining the functional requirements of a computer workstation is the task of a group headed by Gene Schneider (at right), who is shown with Dr. William G. Lane as they look over the principal component of one such workstation. — Photos by Don Cornelius

