

# Theater group tryouts set for next week

Tryouts for the China Lake Players' production of the Agatha Christie suspense-filled mystery, "The Mousetrap," will be held next Wednesday and Thursday, March 8 and 9, at 208 S. Forrest Knoll in Ridgecrest, beginning at 7:30 p.m.

Scheduled for performance on April 28, 29, May 4 and 5, the play will be rehearsed three nights a week in the Players' Hut at 405 McIntire St., China Lake. Tryouts are being held in the home of the director, Mrs. Rosalie Barber, since "A Raisin in the Sun" is to be presented in the Players Hut on March 10, 11, 17 and 18.

Actors are being sought to fill eight roles. They are two young women, one older woman, three younger men, and two middle-aged men. Each part offers anyone interested in being on stage a chance to develop a unique characterization, Mrs. Barber stated.

The setting for this play, one of Agatha Christie's most famous mysteries, is an English boarding house which has just opened to receive guests. The guests arrive in the middle of a terrible snowstorm and are unable to leave. Being stranded strangers is one thing, but then Miss Christie adds her famous touch by making one of them a murderer.

Mrs. Barber, the director for this production, has been a long-time active member of the China Lake Players as both an onstage and backstage worker. She is presently serving as hostess for the group and is the chairman of the Players' scholarship committee which offers a graduating senior at Burroughs High School a scholarship to encourage continued interest in the performing arts.

Mrs. Barber will be assisted by Karin Lindblom, with Steve Barber serving as technical director.

The China Lake Players invite anyone in the valley who is interested in participating in little theater to tryout for a part in "The Mousetrap." Anyone wishing further information may contact Mrs. Barber by calling 375-9470.

# College to display specialized type of ceramics work

A display featuring wheel-thrown, salt-glazed ceramics that is the work of Sandra Johnstone will be open to the public during a reception for the artist that is scheduled at 7 p.m. Saturday in the Cerro Coso Community College art gallery.

There is no charge for admission to the art gallery, which is open regularly Monday through Friday, from noon to 7 p.m. Ms. Johnstone's ceramics work will be on display for the remainder of this month.

The unique glazing technique used by Ms. Johnstone involves throwing salt into a kiln which has been heated to the desired firing temperature. The chemical action that results from combining the sodium and chloride of salt with the silica of the clay enhances the appearance of the ceramics.

Quality glazing is produced since the glaze becomes integrated with the clay rather than being a coating or skin on the outside. The results of salt firing are not controllable, as with conventional glaze firing. "For me this adds excitement to the firing part of pottery," Ms. Johnstone said.

She uses salt dug from the salt flats surrounding San Francisco Bay.

On display at the gallery will be many ceramics forms thrown on the potter's wheel, decorated with slips and oxides, and the vapor glazed with salt.

Since 1966, Ms. Johnstone has been working as an artist-potter in her own studio in Los Altos. About 99 percent of her work is salt fired. All of her ceramics are wheel thrown. She is currently enrolled in graduate classes in ceramics at San Jose State University.



**SEABEE DAY IN RIDGECREST** — Lt. Col. Howard Wells, CEC, USN, accepts a proclamation from Ridgecrest Mayor Ted Edwards declaring last Wednesday as Civil Engineer Corps / Seabee Day in the city. Local CEC officers and Seabees will celebrate their anniversary tomorrow night at the Community Center. The Civil Engineer Corps will be 111 years old and the Seabees 34 years old on Sunday.

# Burroughs High School will host Desert Area Honor Band Festival

The Desert Area Honor Band Festival, sponsored by the Desert Music Educators Association, will be held on Saturday, starting at 7 p.m. in the Burroughs High School lecture center. Proceeds from the \$1 donation for admission will be used to purchase new music for future honor bands.

Six junior high schools will send representatives to the Junior High School Honor Band, whose guest conductor will be Dennis Davies from Foothill Junior High School in Arcadia, Ca.

Seven desert area high schools also will participate, with the guest conductor being G. Randall Coleman from Villa Park High School in Villa Park, Ca.

Of the 49 students in the junior high honor band, 27 are local students who were chosen at the auditions which were held in Mojave on Jan. 21.

Ten instrumental music students of Mrs. Louise Bare at James Monroe Junior High School in Ridgecrest, will be participating in the Junior High Honor Band concert. They are:

Christine Hueber, Jamie Martindale, John Silliman, Sharon Towner, Christine Hoffer, Scott Schiefer, Joe Victor, Katrina Nason, Kurt Seaman, Tony Haun and Jay McConnell.

Students of Mrs. Alberta Kline's instrumental music classes at Murray Junior



**WEIGHTY PROBLEM** — James Isler, who plays the part of Bobo in "A Raisin in the Sun," worries about how to tell Walter (James Lewis) that their friend and would-be business partner (Willy Harris) has skipped town with their life savings. The China Lake Players' first drama production of 1978 will open next Friday night, March 10.

High School chosen to play in the honor band concert are:

Julia Jans, Tracy West, Brenee' Wood, Erika Gehres, Cynthia Kaye, Mary McDonough, Simone Peterson and Robert Burdick.

Also from Murray School are Paul VanderWerf, Terry Cobb, Patrick Leon, Karla Kirschstieper, Maureen Williamson, Paul Weimholt, Andy Fabans and Linda Eisel.

The 79-member Desert Area High School Honor Band will be composed of 15 students of Don Wilkinson, band instructor at Burroughs High. They are:

Lynette Lorch, Kathy Malone, Becky Davis, Betty Baker, Amanda Altieri, Rhonda Lindemann, Steve Sorensen, Bill Cabe, Jeff Carson, Dan Burdick, Matt Brady, Kurt Rockwell, Paul Hugo, Steve Faith and Carol Boot.

# China Lake Players' 'Raisin in the Sun' opens next Friday

Members of the cast and crew of the first China Lake Players' production of the year, "A Raisin in the Sun," are busily preparing for the opening night, March 10. The opening night date has been delayed a week from its previously scheduled time because of late cast changes.

Performances are scheduled for the evenings of March 10, 11, 17, and 18 at 8:15 in the China Lake Players' Hut, 405 McIntire St., China Lake. Seating is limited so reservations for tickets are necessary; these can be made by telephoning Rosalie Barber at 375-9470. Tickets may also be purchased from members of the cast and crew.

General admission is \$2.50, with senior citizens over 65, enlisted military, students under the age of 21, and children being admitted for \$1.50.

The play, a poignant story about a black family and how the inheritance of money affects their personalities, will delight audiences with its realism and frankness.

Members of the cast include James Lewis as Walter, Cynthia Harris as Lena, Nona Celestine as Ruth, Ava McClendon as Beneatha, and Alan Celestine as Travis.

Others are Debra Johnson in the role of Thelma, Stanley Perkins as Asagai, Jonathan Riddick as George, James Isler as Bobo, Don "Alvati" Tilford as Lindner, and Walter Goodwin and Darrel Rudd, as the moving men.

"A Raisin in the Sun" is being directed Elena Vitale.

# SHOWBOAT

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

**(G) - ALL AGES ADMITTED**  
General Audiences  
**(PG) - ALL AGES ADMITTED**  
Parental Guidance Suggested  
**(R) - RESTRICTED**  
Under 17 requires accompanying Parent or Adult Guardian  
Regular starting time—7:30 p.m.  
Program subject to change without notice.  
For further information call NWC ext. 2259

**FRIDAY 3 MARCH**

"SHADOW OF AN EMPTY ROOM" (99 Min.)

Tisa Farrow, Carole Laure  
(Action-Drama) This film is set in Canada and centers around a police captain who is involved in solving the murder of his sister on a college campus. The film is fast moving with chase sequences in which Laure pursues a suspect through the streets of Montreal. (R)

**SATURDAY 4 MARCH**

"LOST HORIZON" (138 Min.)

Peter Finch, Liv Ullman  
1:30 p.m. Matinee  
(Musical) A modern musical adaptation of the 1937 screen classic in which an airplane crashes and its passengers find themselves in Shangri-La. (G)

**"THE LATE SHOW" (93 Min.)**

Art Carney, Lily Tomlin  
(Comedy-Drama) Murder, mystery and the bizarre mingle with comedy in this interesting tale of an over-the-hill private detective (Art Carney) who sets out to solve his partner's murder. While doing so, he becomes embroiled in another case—the search for a missing cat whose owner is his kooky client Lily Tomlin. (PG)

**SUNDAY 5 MARCH**

"THE REINCARNATE" (122 Min.)

Jack Creley, Jay Reynolds  
(Horror Drama) Everett Julian, a middle-aged lawyer, has been told by his doctor that he will soon die of an incurable disease. Julian is a member of the Sakara sect whose members believe in reincarnation. He must therefore find someone to whom he can pass the accumulated knowledge of eight thousand years so that his essence will survive in another's body. He chooses David Payne, a young struggling sculptor. (PG)

**WEDNESDAY 8 MARCH**

"A PIECE OF THE ACTION" (135 Min.)

Sidney Poitier, Bill Cosby  
(Comedy Drama) Safe expert Bill Cosby pulls off two well-paying robberies and confidence man Poitier uses housekeeper Frances Foster to cheat Titos Vantis out of \$47,500. Later, retired police detective James Earl Jones secretly contacts Poitier and Cosby to force them to offer their services to a youth job training center. Cosby is to secure jobs for the youngsters when the training is completed, while Poitier is to assist with the training. Jones, whose wife founded the center, helps Poitier by getting the goods on Vantis from an old friend. Poitier and Cosby content themselves with having brought some values to the tough street kids. (PG)

**THURSDAY 9 MARCH**

"THE BABE RUTH STORY" (107 Min.)

William Bendix  
(Biographical Drama) This film classic portrays Babe Ruth as one of the baseball greats of all time, from his start as a pitcher for the Boston Red Sox to his eventual status as star hitter and Yankee outfielder. He was known as the "Home Run King" not only for his season record of 60 homers, but also for his lifetime record totaling 716 homers. The life of this baseball great is interestingly told with humor and pathos.

**FRIDAY 10 MARCH**

"AIRPORT '77"

Jack Lemmon, James Stewart  
(Adventure Drama) The third of the highly successful "Airport" dramas inspired by Arthur Hailey's book features a cast of top names and spectacular effects. Lemmon is a pilot charged by employer Stewart to fly a small group of art collectors and critics to Palm Springs for the inauguration of his new museum collection. Three men seize the aircraft to hijack the paintings. The plane crashes and there is a thrilling, well-filmed rescue sequence. (PG)

U.S. Government Printing Office: 1978 — No. 115

From: \_\_\_\_\_ PLACE STAMP HERE

To: \_\_\_\_\_



**SEMINAR PLANNING** — Elaine Jenne, secretary in the NWC Engineering Department's Soldering Technology Branch, checks some last-minute details pertaining to the Soldering Technology Seminar with her boss, Jim Raby.

# Experts in solder technology speak at seminar here

More than 240 middle and upper management personnel representing 46 companies or government agencies — at least one of whom came from as far away as London, England — attended the Naval Weapons Center's second annual Soldering Technology Seminar which was held on Thursday and Friday of last week.

Experts in the field of electrical/electronic equipment fabrication and assembly covered a variety of subjects during seminar sessions held at the Center theater.

Topics discussed ranged from plating, solder coating and automatic soldering to cleaning requirements and static discharges and their effects on parts.

On the second day of the seminar, (Continued on Page 3)



**LABORATORY SESSION HELD** — Dick Johnson (at right in top photo) demonstrates a soldering iron analyzer to (l.-r.) Bob Weggesser, from Texas Instruments in Ridgecrest; Clyde James, a quality engineer from the Government Electronics Division of Motorola in Scottsdale, Ariz., and Richard Heck, a representative of Dillon, Stevens and Co. in Los Angeles. Johnson is president of the Hexagon Electric Co. in Roselle Park, N.J. In the lower left photo, Jerry Webber, of the Raychem Corp. in Menlo Park, Calif.,



instructs David Price (center) from Hughes Aircraft in Irvine, Calif., in the use of a solder sleeve the Raychem Corp. has developed for attaching a grounding wire to a cable shield. Looking on at right is Mike Dawson. With Gerry Inman, a quality assurance specialist in NWC's Soldering Technology Branch watching closely, Art Gillman (in photo at lower right), president of Unique Industries in Sun Valley, Calif., shows how an ultrasonic vapor degreaser can be used for cleaning circuit boards.



**nwc rocketeer**

Naval Weapons Center  
China Lake  
California

March 3, 1978

Vol. XXXIII, No. 9

# Nat'l Engineers' Week dinner features talk about 'Applications of Solar Energy'

The annual observance of National Engineers' Week, held Feb. 19 to 25, was highlighted at the Naval Weapons Center by a dinner on the evening of Tuesday, Feb. 21, at the Commissioned Officers' Mess, as well as by NWC's second annual Soldering Technology Seminar on Thursday and Friday of last week.

"Present Applications of Solar Energy" was the topic of Dr. James R. Clinton, who was the after dinner speaker on Feb. 21. Dr. Clinton is director of the Energy Center at the University of California at San Diego, and conducts research sponsored by the U.S. Department of Energy and the San Diego Gas and Electric Co.

Talk Illustrated by Film Slides  
His talk, which was illustrated by film slides, began with a history of the applications of solar energy. Examples of successful applications included a pumping station in Egypt which operated for 40 years — thus demonstrating the potential for longevity of solar energy systems.

Another successful application of solar energy mentioned by the speaker was the system used to heat water for 25 years at Scotty's Castle in Death Valley.

Interest in solar energy waned with the advent of World War I, due to the availability of petroleum products as an



**Dr. James R. Clinton, Engineering Week Speaker**

inexpensive source of energy, but the last 20 years has seen a change in this trend until now — spawned by the energy crisis — there are some 5,000 companies actively engaged in solar energy product developments, Dr. Clinton said.

It is his belief, the speaker said, that solar energy is cost effective for heating hot water where natural gas is not available, and it is becoming cost effective for space heating and air conditioning as the cost of other energy-producing materials continues to rise dramatically.

**Two Leading Nations**

Japan and Israel, Dr. Clinton pointed out, are the leading nations in the development of solar energy. Japan, he said, has 2½ million solar water heaters, while Israel has about a quarter million.

In the United States, which is significantly behind the solar energy leaders, California and Colorado are the leading states in solar energy development. California, it was added, has established an Energy Resources Conservation Development Commission whose task it will be to determine the criteria for eligibility for tax credits for a portion of the cost of installing a solar system.

Dr. Clinton stressed the cost effectiveness theme when looking at all energy sources, and stated his belief that solar power will be a viable source of energy in the future. Space energy collectors may possibly be

additional solar energy to earth in the form of microwaves, he said, but added that he would not like to have to file the environmental impact study on such a method of augmenting solar energy.

For those who are interested in further information on the subject, the National Solar Heating Information Center has been established and can be contacted by calling a toll free number (800) 523-2929.

Ray Van Aken, head of the Aero-mechanics Division in the NWC Systems Development Department, served as master of ceremonies for the National Engineers' Week dinner, which was sponsored by nine engineering societies that have joined together to form the High Desert Engineering Association, (hIDEA).

**Members of hIDEA**

These groups are the American Institute of Aeronautics and Astronautics (AIAA), the American Society of Civil Engineers (ASCE), the California Society of Professional Engineers (CSPE), the Institute of Electrical and Electronic Engineers (IEEE), the American Institute of Chemical Engineers (AIChE), the American Society for Quality Control (ASQC), the Society of Manufacturing Engineers (SME), the Society of Logistic Engineers (SOLE), and the American Society of Mechanical Engineers (ASME).

In addition to the talk by Dr. Clinton, (Continued on Page 4)

# Due to utility costs, rental rates to go up

An upward adjustment in rental rates for Naval Weapons Center housing units occupied by civilians will go into effect on April 1.

This latest increase, which is due solely to the sharp climb in various utility rates that have been charged the Center during the past year or two, will result in an average increase in utility charges of approximately 34 per cent over current charges.

The new utility rates are comparable to those now being paid by Ridgecrest residents.

Active duty military personnel assigned to public quarters for which BAQ is deducted are not affected by this change in charges.

At the time the annual adjustment in civilian shelter charges for 1978 was announced in January, the review work on which to base increased utility charges had not been completed. It was noted, however, that since the costs for utilities have been increased locally by considerably more than the national Consumer Price Index over the past three years, an increase in utility rates on the Center would be forthcoming.

The current rent schedule (excluding any change to reflect higher utility rate costs) was increased on Feb. 1 by 7.1 per cent, compared to the 1977 rate.

In accordance with the Housing Administration Manual, charges for utilities also must be adjusted yearly based upon the CPI, or every third year if for any reason valid and realistic comparability with private utility rates has not been established.

The schedule of new rental rates, showing the changes in the utility rates for all housing on the Center, can be found on Page 4 in this issue of The ROCKETEER.

# New senior chaplain reports aboard; broad experience includes combat

A former combat chaplain with past nuclear submarine, destroyer, aviation and overseas command duty will be ministering to the spiritual needs of Naval Weapons Center personnel.

Capt. Frederick E. Whitaker, ChC, USN, relieved Capt. Theodore C. Herrmann, ChC, USN, this week as the Center's senior chaplain. Chaplain Herrmann retired Tuesday.

Chaplain Whitaker, who won the Bronze Star with Combat V, while serving with the Third Marine Division in Vietnam, said he was "delighted" with his assignment.

"I am very happy and feel extremely rewarded to be here," he said.

Chaplain Whitaker enlisted in the Navy in 1943 and was released to inactive duty after

World War II as a Machinist Mate Second Class.

After several years as a ready Naval Reservist and receiving a Master of Divinity Degree from Southern Seminary, Louisville, Ky., Chaplain Whitaker was commissioned a reserve lieutenant junior grade in the Chaplain Corps in 1966.

An American Baptist Minister, Chaplain Whitaker pastored a church in Shelbyville, Ind., until recalled to active duty in 1962.

Served on Nuclear Sub Tender Following assignments with Destroyer Squadron 20 and as a brig and regimental chaplain at the Marine Corps Base, Camp Lejeune, N.C., came a tour on the nuclear submarine tender USS Canopus (AS-34) based at Rota, Spain.

He described this duty as his "most interesting" because of the "unique" problems nuclear submariners face due to long periods of undersea deployment.

"You can't send or get a letter underwater," he observed.

This creates special problems in supportive counseling for the nuclear submariners and their dependents, he said.

Chaplain Whitaker won his Bronze Star for serving under enemy fire during 12 major engagements with the Third Marine Division near the Demilitarized Zone in Vietnam during 1968 and 1969.

"We weren't heroes," he said. "We just got paid for doing our jobs."

"Challenging" Assignment Chaplain Whitaker said that his last duty assignment as senior naval station chaplain and Staff Chaplain, Commander U.S. Naval Forces, Philippines, at Subic Bay was "very challenging."

He cited as reasons the large American community there, the "special and long-standing relationship between Americans and Filipinos" and the importance of the naval station to Fleet operations in the Far East.

Chaplain Whitaker and Mrs. Whitaker, the former Freda Welch of Springfield, Ohio, are living on the Center. Their daughter, Mrs. William Neiler, and granddaughter, Laura, 10, reside in San Diego.

## Rummage sale set to benefit Spay, Neuter Program

An Indian Wells Valley Spay and Neuter Program Rummage Extravaganza will be held on Saturday from 8 a.m. to 8 p.m. at the old Kern County Building, 230 W. Ridgcrest Blvd.

This sale offers a wide selection of items including major home appliances such as washers, dryers and television sets, as well as furniture, clothes, toys and plants. Patrons also may find a few new items in addition to the used bargains.

Proceeds will go toward the continued support of the Spay and Neuter Program, which offers rebates of half the cost incurred by pet owners who elect to have their animals spayed or neutered.

# 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 Personnel-Wage and Classification Division, Code 972, Ext. 2697. Ads will run for one week and will close at 4:30 p.m. on the Friday following their appearance in this column, unless a later date is specified in the ad. Employees whose work history has not been brought up to date within the last six months are encouraged to file a Form 171 or 172 in their personnel jacket. Information concerning the Merit Promotion Program and the evaluation methods used in these promotional opportunities may be obtained from your Personnel Management Advisor (Code 094 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-116, while those for all WO, WL and WS positions are defined in CSC Handbook X-118C.

Clerk-Typist GS-322-3 / 4, PD No. 7833012N Code 331 — This position is located in the Advanced Systems Division of the Fuze Department. Duties and responsibilities include performing clerical duties such as maintaining files and typing travel orders and vouchers, stub requisitions, official letters, reports, and general correspondence of a highly technical nature. Job Relevant Criteria: Typing skills; knowledge of Navy correspondence procedures. Ability to interpret instructions; reliability and dependability; ability to meet and deal effectively with others. Applications accepted from status eligibles.

Supply Systems Analyst, GS-2003-11, PD No. 7525038 Code 2511 — Applications will be accepted from both NWC employees and status eligibles. This position is located in the Planning and Analysis Branch, Planning and Administrative Division, Supply Department. Work entails the design of systems for processing supply data. Incumbent will analyze the data requirements and operating methods of the Supply Department and devise means of improvement. Job Relevant Criteria: Knowledge of DoD supply systems; ability to analyze / design procedures and systems; knowledge of automatic data processing systems and techniques; ability to design and deliver effective presentations. Effectiveness in interpersonal relationships.

File applications for the above with Ginger Hamaty, Bldg., 34, Rm. 212, Ph. 2371.

Library Technician, GS-1411-5, PD No. 7823014N, Code 2334 — Status eligibles will be accepted. This position is located in the Descriptive Cataloging Branch, Information Science Division, Technical Information Department. The incumbent performs descriptive cataloging of new scientific and engineering books, including those in foreign languages; makes changes in descriptive cataloging caused by the addition of new works to serial publications; withdraws books, making required corrections to cross references in catalog; files catalog cards; and performs miscellaneous duties as required. Job Relevant Criteria: Knowledge of standard cataloging rules; demonstrated ability to establish and maintain harmonious work relationships; and demonstrated ability to analyze information and draw sound conclusions.

Library Technician, GS-1411-4, PD No. 7823015N, Code 2334 — This position is located in the Descriptive Cataloging Branch, Information Science Division, Technical Information Department. The incumbent performs descriptive cataloging of technical reports, determining from a report itself the form of entry. The work may require the re-cataloging of existing material or the setting up new report series and relating the new series to established ones by cross reference. The incumbent also operates various data processing equipment, files and types catalog cards, and performs miscellaneous duties as required. Job Relevant Criteria: Knowledge of descriptive cataloging practices; ability to use electronic data processing equipment; knowledge of technical reports; demonstrated ability to analyze information and draw sound conclusions.

File applications with Tina Rockdale, Bldg., 34, Rm. 204, Ph. 2676. Quality Assurance Specialist, GS-1910-9 / 11, PD No. 755512E, Code 3602 (2 vacancies) — Applications will be accepted from NWC employees and status eligibles. This position is located in the Quality Assurance Branch, Product Assurance Division, Engineering Department. Incumbent participates in review of contractual quality assurance requirements of items for weapon and missile systems; reviews hardware drawings and documentation from a producibility, quality assurance and inspectability

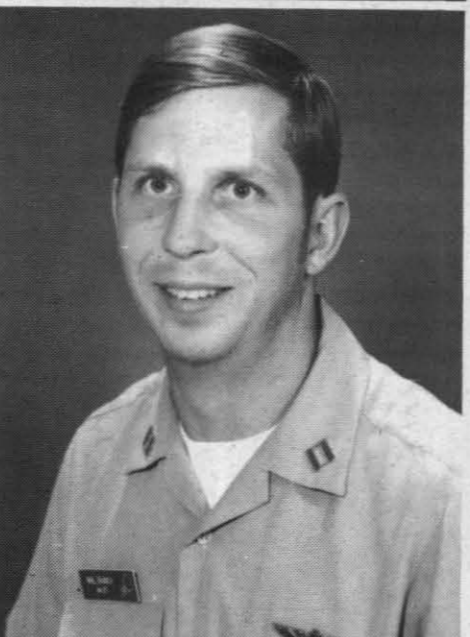
viewpoint; reviews results of tests, inspections, and reports; and reviews contractors quality programs. Job Relevant Criteria: Must have experience in production, manufacturing, inspection, and quality control as essential to industrial technology and manufacturing process. Must have knowledge of standard sampling plans and procedures to evaluate statistical data and deficiency reports. Promotion Potential: GS-12.

Logistics Management Specialist, GS-346-12, PD No. 773604E, Code 3464 — Applications will be accepted from both NWC employees and status eligibles. This position is that of a Logistics Management Specialist in the Integrated Logistics Support (ILS) Branch, Fleet Engineering Division, Engineering Department. The prime responsibility of this branch and major duties/responsibilities which the incumbent will be involved in are the coordination and application of ILS to NAVAIR development projects at this Center and other activities (government and contractor) as assigned. The incumbent will implement ILS principles and requirements during the development phase and for the life cycle of the NWC cognizance system / equipment. Job Relevant Criteria: Knowledge of integrated logistics support (ILS) principles and policies; knowledge of the management of weapons systems, subsystems and components as it relates to ILS; knowledge of maintenance engineering analysis and maintainability programs. Previous applicants need not reapply.

Supervisory Technical Manuals Editor (General), GS-1083-12, or Supervisory Equipment Specialist, GS-1670-12, PD No. 7734051E, Code 3655 — This is an interdisciplinary position (one vacancy). Position is that of head, Logistics Documentation Branch, Technical Data Division, Engineering Department. Position is responsible for providing technical documentation production management and logistics / supply support management to the Engineering Department and other NWC codes. Includes planning, managing, and conducting quality assurance checks on technical manuals and provisioning documentation; directing and monitoring technical efforts of on-center and contract groups who prepare technical manuals; provisioning documentation and associated technical data and maintaining liaison with other Navy and Air Force commands on technical manuals; provisioning documentation and associated specifications. Directly supervises all Branch personnel. Job Relevant Criteria: Broad knowledge of in-service data and logistics requirements; broad technical knowledge of mechanics, electronics, explosives, aerodynamics and propulsion systems; thorough knowledge of DoD, military and commercial specifications; and demonstrated ability to interpret the requirements of the specifications. Ability to technically and administratively supervise the work of technical manuals editors. Promotion Potential: GS-13. Previous applicants will be considered without reapplying.

Clerk-Typist, GS-322-3 / 4, PD No. 7636169N, Code 3621 — Applications will be accepted from both NWC employees and status eligibles. Position is located in the Mechanical / Special Equipment Branch, Engineering Design Division, Engineering Department. Incumbent provides clerical and typing duties for branch personnel.

(Continued on Page 5)



PROMOTED — Lt. Malcolm P. Branch is now LCDr. Branch following a promotion ceremony conducted recently by Capt. L. E. Giuliani. Commanding Officer of Air Test and Evaluation Squadron Five, while Mrs. Nancy Branch, the attractive wife of the officer watched. LCDr. Branch has been assigned to VX-5 since 1975; he is a graduate of the University of Wisconsin and holds a master's degree in aeronautical engineering from the Naval Postgraduate School in Monterey, Calif.



## DIVINE SERVICES

- PROTESTANT
Sunday Worship Service 1015
Sunday School — All Ages 0900
Sunday School Classes are held in Chapel Annexes 1, 2, 4, (Dorms 5, 6, 8) located opposite the former Center Restaurant.
Communion Service first Sunday of the Month.
ECUMENICAL
Wednesday Noon Bible Study 1130
Thursday Men's Prayer Breakfast 0630
ROMAN CATHOLIC
MASS
Saturday 1700 fulfills Sunday obligation
Sunday 0700 0830 1130
Nursery, Chapel Annex 1 0815-1245
Daily except Saturday, 1135, Blessed Sacrament Chapel
CONFESSIONS
Daily 1115 to 1130
Saturday 1615 to 1645
Sunday 0800 to 0825
RELIGIOUS EDUCATION CLASSES
Sunday First through 6th grades 1015
Sunday Pre-school & kindergarten 1115
Sunday seventh & eighth (Junior High) 1900
Above classes are held in the Chapel Annexes across from the former Center Restaurant.
Sunday evening Ninth through 12th grades
As announced "In Home" Discussion Groups
Youth Rallies
Contact Chaplain's Office for specifics.
JEWISH SERVICES
EAST WING — ALL FAITH CHAPEL
Sabbath Services every Friday 1930
UNITARIANS
CHAPEL ANNEX 95
Services — (Sept.-May) 1930

# Sidewinders build up 6-game lead in Premier League

The Raytheon Sidewinders, who dropped one out of three games to the Hideaway Keglers on Monday night at Hall Memorial Lanes, continue to hold a firm grip on first place in the Premier League.

The Sidewinders have a six-game lead on their nearest rivals, the Saddleback Sales bowling team, which is just a half game ahead of the Fisher Plastering and Elks Lodge bowlers, who are tied for third.

The Sidewinders rolled the Premier League's high team series (2,869) on Monday night, while high team games was the 1,026 posted by the Pollock Construction squad.

Five bowlers, led by George Barker's 621, topped the 600 series mark. In addition to Barker, they were Jim Bradberry (619), Art Karrer (616), Ernie Laterman (612) and Vic Black (610).

Premier League keglers with single game scores of more than 220 were Thad Brightwell (256), Don Heeke (247), Laterman (246), Bill King (231), Black (226), Ken Dalpiaz (222) and Cliff Moss and Jack Leininger (221).

Current standings in the Premier League are:

Table with 3 columns: Team, Won, Lost. Lists teams like Raytheon Sidewinders, Saddleback Sales, Fisher Plastering, etc.

## Rec Round-up . . .

(Continued from Page 6) a charge of \$30 per month for this instruction, which will take place in the youth gym and be offered by PNI Sam Thompson.

PNI Thompson, who received his first black belt in Shotokan Karate in 1971, has practiced and studied martial arts during Navy duty that has taken him to Taiwan, Hong Kong and the Philippines.

Persons interested in learning how to defend themselves can reserve a place for themselves in this class by calling the gymnasium office at NWC ext. 2334.

Bicycle Motocross Planned A bicycle motocross for local area young people will be held on Sunday, starting at 1 p.m., at the Desert Empire Fairgrounds in Ridgecrest. This event is sponsored by the Ridgecrest Recreation Department and the Sandblaster Motorcycle Club.

Contestants will be placed in one of four weight divisions. They are: 90 lb. and under, 91 to 119 lb., 120 to 140 lb., and 141 lb. and over.

## MDISL standings . . .

(Continued from Page 6) with an additional 1, 3 or 5 points, respectively, being added to the totals of the top three teams in each event. As a result, the current standings in the MDISL are: Edwards AFB, 15; Norton AFB, 13; Nellis AFB, 11. NWC and all of the other MDISL members have 10 points each, with the exception the Marine Corps Base at 29 Palms which did not send a team to the basketball tourney.

The next MDISL event coming up will be a volleyball tournament at George AFB in Victorville on March 18 and 19.

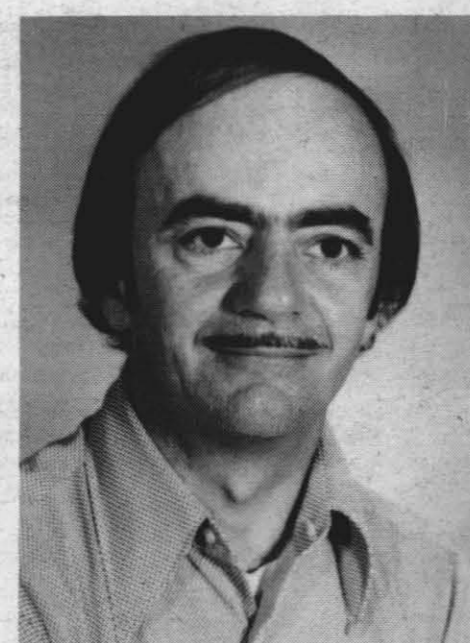
## Umpire clinic open to all Little League officials

An umpires' clinic for Little League baseball officials will be held on Tuesday, starting at 7 p.m., at the Training Center.

This classroom session, which is to be conducted by Lowell Radcliff, will be followed by field training on March 14 and 21 at Little League diamond No. 4.

The clinic is open to all interested persons, but is recommended especially for coaches, managers and scorekeepers.

# Employee in the spotlight



John L. O'Guin

"I get restless if I'm not busy," says John L. (Jack) O'Guin, an engineering technician in the Quantum Optics and Semiconductor Branch of the Physics Division of the Research Department. "And I also like to be with people who are enjoying themselves."

During the past year, Jack has certainly not had any time to become restless; in fact, he was so busy during his term of office as president of the Community Light Opera and Theater Association board of directors that he received a new award — "the purple heart award" — and a standing ovation at the annual banquet held Jan. 27.

Jack's interest in drama and theater began by accident. "I had to have one more unit of college work up at Cerro Coso," he says, "so I signed up for Florence Green's Theater 27 class, thinking that it would be the history of drama or something like that. Instead, I found myself trapped into acting, and I've been busy on stage, back stage, and in the administrative end of things ever since."

Theater isn't his only hobby — his spare time is well filled. For instance, he likes to paint, to sculpt, and has taken courses in the making of stained glass windows and in welding (to prepare for making metal sculpture — "I haven't had time to do that yet."). He also likes to play his guitar and

## Former Ballet Russe ballerina to teach children's classes

Registration is now being taken at the Youth Center for ballet classes that will be offered at the youth gym starting on Monday, March 20.

The classes, which are for youngsters 6 through 12 years of age, will be taught by Terrie Jacks. There is a \$20 fee that must be paid in advance for each group of six weekly lessons.

Miss Jacks began her own ballet training in 1957 and subsequent to receiving instruction here, began training at the age of 10 with the Ballet Russe de Monte Carlo in New York City.

She also studied at the American Ballet Theatre School of Ballet and at the June Taylor School of Dance, both in New York City, prior to starting out on her professional career in 1968 with the Philadelphia Lyric Opera. A knee injury ended her professional dancing in 1970.

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



1,000 HOURS FLIGHT TIME LOGGED IN A-7 — LCDr. Tom Harrell (l.) and LCDr. Lynn Hezlep hold a 1,000-hr. mug presented to each of them by Arnie Vang, Vought Corp. representative, for each having flown more than 1,000 hours in the A-7 Corsair II aircraft. LCDr. Harrell has been at the Naval Weapons Center for 2 1/2 years, and will transfer shortly to duty at the Naval Air Station at Lemoore, CA. LCDr. Hezlep has also been on duty at China Lake for 2 1/2 years; his next duty station will be on the USS Constellation. —Photo by Ron Allen

Later, while employed at the Navy's Corona Laboratories, he attended night school to learn to become an engineering technician. (This was finally accomplished in 1973 after completing course work at Cerro Coso Community College.) When he was scheduled to move to China Lake in 1969 as part of the Corona transfer, he says that "I thought it would be sort of a moonscape-like area, but was really pleased to find how beautiful the country is around here."

## Made Inspection Visit

Jack recalls that he and his family drove here before the move was scheduled, looked around the Center to see which was the worst example of Navy housing that could be found, and parked in front of the place to see if they could stand the move. "When Betty started talking about how she could plant some shrubs to make the place attractive, I knew that the move would be feasible," he said.

He adds that they've been very happy with the housing that they did have on the Center, and have now bought a new house of their own in town. ("And are having to do an awful lot of work in putting in the fence and the front and back lawns.")

His happiness in his activities includes his job as well. He works for Dr. Nick Bottka doing basic research. "Getting at the unknowns is always interesting," he noted.

Jack adds, "I need something that is always changing and challenging. I'm not happy with the norm."

## Opportunities . . .

(Continued from Page 5)

pieces of firefighting and support equipment. All firefighters are qualified in both structural and aircraft firefighting techniques. The Fire Division also includes a Fire Inspection Group which reports through the incumbent. The emergency ambulance response for the NWC is provided by the Fire Division. In addition to acting as fire chief, in the absence of the chief, and day to day operations management, the incumbent is responsible for the training program of the Fire Division and assisting the fire chief in planning, staffing, and budget matters. Job Relevant Criteria: Experience in both structural and aircraft firefighting techniques; experience in fire suppression and prevention; demonstrated ability to supervise efficiently and effectively; experience in rescue operations; ability to work effectively with others; demonstrated ability to establish and maintain effective and harmonious working relationships with employees, labor organizations, superiors, subordinates, peers and personnel from other Commands. Ability to communicate well, both orally and in writing.

File applications for the above with Charlotte Sieckowski, Bldg. 34, Rm. 208, Ph. 2308. Ordnance Equipment Repairer, WG-4441-8, JD No. 521, Code 4223 — This position is located in the Ground Operations Branch, Range Operations Division, Range Department. Incumbent performs a variety of duties in the set-up, firing and control of testing and experimental operations on explosives, missiles and projectiles. Assembles ordnance for test firings; loads, primes and fires guns; operates specialized recording instrumentation; reads specifications and sketches; uses arithmetic and geometry. Job Relevant Criteria: Ability to do the work of the position without more than normal supervision; knowledge of equipment used in the trade; ability to use measuring instruments used in the trade; ability to read, interpret, and apply the instructions, specifications, blueprints, etc. used in the trade; ability to find trouble, determine method of repair, and use appropriate tests; ability to perform the theoretical, precise, and / or artistic tasks of the trade.

File applications for the above with Jan Nieberlein, Bldg. 34, Rm. 204, Ph. 2577. Cook, NA-7404-08, PD No. 77COM104, \$4.22 PH, Code 6821, Commissioned Officer's Mess, Full Time — (This is not a Civil Service position). Prepares, seasons, and cooks soups, meats, vegetables, desserts and other foods. Adjusts thermostat controls to regulate temperature of ovens, broilers, grills and steam kettles. Carves meats, portions food on serving plates, adds garnishes, gravies and sauces to fill orders. Desirable Qualifications: Ability to prepare a wide variety of fish, fowl, meats, and sauces. Knowledge of food service equipment.

File applications for the above position with Cheryl Hartley, Bldg. 21, Ph. 3387. Communications Clerk / Communications Technician, GS-394-4 / GS-392-5, PD No. 7385009-7N / PD No. 7500022AMI, Code 2123 (All status eligibles are accepted) — The incumbent validates requirements for additional radios; aides in analysis of justification for circuits; processes service requests and authorizations and spot checks in the field to ensure completion; gear traffic analysis data, assists in planning and layout of telephone system; interfaces with Continental Telephone Co. on processing and billing of telephone service. Job Relevant Criteria: Knowledge of communication equipment terminology and nomenclature; ability to type; ability to establish personal contacts; ability to gather data.

File applications for the above with Cathy Rivera, Bldg. 34, Rm. 206, Ph. 2723.

# The Rocketeer

Official Weekly Publication Naval Weapons Center China Lake, California

Rear Admiral William L. Harris NWC Commander R. M. Hillier Technical Director Dr. Robert H. Pearson Head, Technical Information Department

Don R. Yockey Editor Dan Tikalsky Associate Editor Gizelle Matulef Editorial Assistant Ron Allen Staff Photographer



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Phones 3354, 3355, 2347

### 11-year-old youth outruns field of 45 in OTHTC 8-mi. race

An 11-year-old ran off with top honors in the Over-the-Hill Track Club's Washington Birthday run last Saturday at the Desert Empire Fairgrounds in Ridgecrest.

The youngster, Don Elick from Rialto, won the handicap event against a field of 45 runners.

D. G. Miller, 26, of Mojave, took the prize in the open division as the fastest man, and another Rialto youngster, 14-year-old Sheri Wheeler, scored a win in the women's division finishing the eight-mile course in 57 min., 57 sec.

Local runners, however, were not shut out of the top awards with China Laker's Jerry and Mike Mumford and Anne and Ed Teppo taking first and second place, respectively, in the husband-wife team division.

Other local residents and their dependents who placed in the competition were Sam Greenmum, Jan Bargowski, and Alex Shlanta, who garnered medals for third, fifth and tenth place in the handicap division.

In the open or fast-time division, local runners did not do as well with many top OTHTC members sidelined by injuries or out of town. Frank Freyne, the event's promoter, said.

However, Mark Pohl was clocked at 50:01 and missed the fast time medal by less than a minute. Miller, the winner of that event, was a former track star at Utah's Weber State University.

At the half-way point, Miller opened up a 30-second lead and held that position until he crossed the finish line in the excellent time of 44 min., 41 sec.

Alvin Gomez, a 15-year-old runner from Barstow, edged out two-time Southern Pacific Association AAU 50-mile champion Joe Burgasser for the third fastest time of 46:04.

Dan Contreras, who helped coach the University of California at Riverside women's track team, finished with the second fastest time — a 45:37.

Freyne said this year's was the most successful Washington Birthday run to date.

### China Lakers defeat Edwards in season's opening soccer game

The China Lake Soccer Club's 1978 season got off to a good start last Saturday at Edwards Air Force Base, where the local team posted a 3-0 win over the Flyers.

The game started off in aggressive fashion. Approximately 10 min. into the match, Karl Kauffman, of the China Lake team, was tripped after faking his way past an opposing player. This triggered a brief scuffle involving Dennis Pierce, one of Kauffman's teammates, who took exception to the foul.

The initial score of the game by the China Lakers was tallied midway through the first half. The ball was booted deep into the area near the Flyers' goal and several players collided while going for it. As a result, Tom Hennen, of China Lake, and the ball caromed into the goal for the first point of the contest.

The Edwards Air Force Base team kicked off to begin the second half. The home team's second pass was blocked by China Lake's Klaus Schadow, who sent the ball flying downfield to Marv Goodman, right wing for the China Lake team. The latter was able to elude the nearest defender and drill the ball into the net for the second goal of the contest.

Just 15 min. later, Schadow and Goodman performed the same moves again and chalked up the third and final goal of the game.

The China Lake defenders tired near the end of the game, and the Edwards' Flyers began to take target practice at goalkeeper Dave Bates. The game ended, however, before the Flyers could score.



**YOUNGSTERS LEARN SOCCER SKILLS** — Karl Kauffman, a member of the China Lake Soccer Club, demonstrates how to accurately kick a soccer ball by using the inside of the foot. This and other fundamentals of the game have been taught on Saturdays at 10 a.m. at Davidove Field for youngsters in the second through fourth grades, and at the same place on Sundays beginning at 1 p.m. for youths in the fifth through eighth grades. Closely observing Kauffman's instructions and demonstration are (l.-r.) Jeff Davis, Andrew Walters, Tony Haaland and Peter Hueber. Other adults who have donated their time as soccer instructors are Werner Hueber, Sterling Haaland and LCdr. Hod Wells. The final such sessions will be held this weekend since player skill evaluation sessions in preparation for the start of the Youth Center soccer program will be held on March 11 and 18 at Davidove Field. Registration of youngsters 8 through 18 years of age who are interested in taking part in the soccer program is currently under way at the Youth Center and will continue through March 18. After teams are chosen, league play will begin on April 1.

### Edwards AFB cagers take over lead in 1978 MDISL standings

Edwards Air Force Base has moved into first place in the 1978 Mojave Desert Interservice League standings as a result of the first place finish by its basketball team last weekend in the MDISL tournament held at Norton AFB in San Bernardino.

The host squad representing Norton AFB finished second and (making it an all Air Force sweep), the cagers from Nellis AFB in Las Vegas came in third.

Members of the Naval Weapons Center team turned in a good first half in their tourney opener against the defending MDISL basketball champs from March AFB, but were outmanned and outplayed in the second half as they lost by a final tally of 90-62.

The score at the midway point in the game was 41-40 in favor of March AFB.

Leading scorers for the China Lakers in his first game of the MDISL tourney were Tim Cornelius with 18, and John Spells, who pumped in 10. The game's high point man was Williams, of March AFB, who tallied 22.

The NWC team's loss last Friday night knocked them into the tournament's consolation round for a game on Saturday afternoon against the George AFB, who tallied 22.

This time the score was closer, but the China Lakers were defeated, 87-71, and eliminated from the tourney. The George AFB team held a 45-35 advantage in scoring at the half, but the NWC cagers managed to

### Signups slated for CL

#### Little League baseball

Young players interested in participating in China Lake Little League baseball this season can sign up between 9 and 11 a.m. on three Saturdays, March 4, 11, and 18, at Diamond 4 across from the NWC Credit Union.

Tryouts will be held at the time of signing up for those 10 through 12 year old players who want to join the Major Division.

Birth certificates must be shown as proof of age, and voluntary donations are being requested at the time of registration.

Anyone seeking further information may contact Dan VanderWerf by calling NWC ext. 3445.



**RACKETBALL CHAMP** — Sonia J. Giuliani, who won first place in last weekend's women's racketball tournament, receives her trophy from NWC athletic director Doug Nelson. In the championship match, she defeated Dorothy Saitz, 21-12 and 21-20. Nine entrants competed Friday, Saturday and Sunday. —Photo by Ron Allen



### Recreation Round-up

#### Final plans to be made for start of volleyball season

Final preparations are being made for the start of the China Lake Intramural Volleyball League spring season.

Tentatively, league play is scheduled to begin next week at the Center gym, but registration is still being taken from those interested in participating.

Plans call for a volleyball league composed of a coed division and a men's division which is divided into two groups — Class A and B. Each player must obtain an Athletic Association card in order to compete.

Blank roster forms for those interested in forming their own team of 12 to 15 players can be picked at the gym office, but must be returned as soon as possible. Additional information can be obtained by calling NWC ext. 2334.

#### Softball Meeting Slated

Another in a series of meetings to make plans for the coming softball season will be held at 5 p.m. Monday at the Community Center. Doug Nelson, athletic director, hopes to see one representative from each prospective team at this get-together.

The Intramural Softball League is to be composed of a men's fast pitch, a men's slow pitch and a women's division, as well as a recreation division split into two classifications.

The start of regular season softball league play will be preceded by a fast pitch invitational tourney April 14-16, and a slow pitch tourney April 28-30.

#### Martial Arts Class

Registration is now being taken for a Kwae Jun Do martial arts class that will be held from 7 to 10 p.m. on Tuesdays and Thursdays, beginning on March 14. There is (Continued on Page 7)

### 2 teams tied for lead in Div. C intramural basketball standings

In the next-to-last week of action for teams competing in Division C of the China Lake Intramural Basketball League, the Wild Bunch moved into a first place tie for the Division C lead by posting a 49-29 win over Team "W" in a game played on Tuesday night of last week at the Center gym.

The Wild Bunch followed up this Tuesday night win by outscoring the Jokers, 40-34, on Wednesday, Feb. 22, and then roared to a 53-39 victory over the Lobos on Thursday, Feb. 23.

After their single loss last week to the Wild Bunch, the players for Team "W" regained their winning form by edging Team "X," 32-29, and then put the whammy on the Medicine Men by a final tally of 34-29.

A total of nine games were played by Division C teams last week. Other scores were: Medicine Men 49, Renegades 48; Lobos 30, Gasbags 21; Gasbags 33, Renegades 32, and Team "X" 37, Jokers 22.

Intramural League Basketball Standings

| Team         | Won | Lost |
|--------------|-----|------|
| Wild Bunch   | 11  | 2    |
| Team "W"     | 11  | 2    |
| Renegades    | 7   | 6    |
| Medicine Men | 5   | 7    |
| Jokers       | 5   | 7    |
| Team "X"     | 4   | 9    |
| Gasbags      | 3   | 7    |
| Lobos        | 4   | 10   |

### Soldering Technology Seminar held . . .

(Continued from Page 1)

demonstrations were presented in the NWC Soldering Technology Lab by representatives from a number of manufacturers of the specialized equipment used in this field.

According to Jim Raby, head of the NWC Engineering Department's Soldering Technology Branch, these demonstrations were not only instructional but, in many cases, tested the manual dexterity of those who attended the laboratory session of the seminar.

Raby, who concluded the seminar by presenting a talk on "Government Requirements and Where They May Lead," noted that most of the company management personnel in attendance readily acknowledged that they would be leaving with a better understanding of the need for better processes and procedures when it comes to carrying out electrical assembly work.

The Naval Weapons Center was a logical choice for the location of this seminar, Raby pointed out, not only because of its preeminent position within the Navy and the Department of Defense in the field of solder technology, but because NWC personnel, whose work has involved a large

### Contract let for operation of local recycling center

A contract for operation of the Naval Weapons Center's waste products' recycling effort has been awarded by the Employee Services Board to Van Hewitt, a resident of Yucaipa.

Currently, the recycling center located off S. Richmond Rd. at Santee St., has collection bins for glass, aluminum cans and bundled newspapers which Hewitt will be emptying at regular intervals. Under the contract agreement, Hewitt will return four per cent of the gross sales of these products to ESB.

Along with awarding of the contract to Hewitt, ESB officials also have announced plans to expand the Centerwide recycling effort to include the salvaging of IBM cards, ledger paper and computer print-out paper.

#### Contact ESB Office

Offices where such material accumulates are asked to contact the ESB office by calling 446-6436 as soon as possible in order that a regular route for picking up IBM cards, ledger paper and computer print-out paper can be established.

This will be done on a weekly basis unless the volume indicates there is a need to arrange for this to be done more often, Hewitt stated.

ESB officials will be working closely with the contractor in an effort to expand the volume of salvageable materials obtained and request the assistance of all local area residents in making it a regular practice to deposit clean glass jars, bottles and other glass containers, as well as aluminum cans and newspapers at the recycling center.

#### No Special Pass Needed

Off-Center contributors to the recycling center should enter NWC via the south gate on Richmond Rd. and need only advise the guard at the gate that they are on their way to the recycling center. No special pass is required.

The recycling of glass, aluminum cans, and newspapers will not only help clean up the China Lake-Ridgecrest area, but will raise money that will be used for support of recreation programs on the Center.

Collections at this recycling center have been running about 25 tons of glass every six months, 20 tons of old newspapers every other month and a ton of aluminum cans every six months.

Currently the Employee Services Board is checking on the possibility of setting up a collection point for old motor oil that can be used for draining motor oil into a holding tank in order to provide a service to those who do their own vehicle maintenance work and also to make it possible to salvage and re-sell the used motor oil.

### Membership drive seeking funds for TV/radio booster system underway

A community wide membership drive, aimed at raising \$13,000 for maintenance, operation and improvement of the local television and FM radio booster system during 1978, is currently underway.

Officers of the Indian Wells Valley TV Booster, Inc., headed by Don Stanton, president, hope that support of local area residents who benefit from the TV booster-FM radio system operation will result in contributions of \$5,000, which is needed for annual maintenance, plus an additional \$8,000 for the purchase of a spare translator.

In addition, the TV Booster, Inc., board of directors' "wish list" includes sufficient funds to enable channel 28 educational TV programs to be broadcast from B Mt. instead of Laurel Mt., as is now being done. To do this would require the purchase of

Due to the necessity for making repairs to the rebroadcasting transmitter, FM radio station KOST has been off the air for the past week.

The repair work is being done in order to eliminate radio broadcasting interference with the reception of TV Channel 13, Jim Rieger, a member of the Indian Wells Valley TV Booster, Inc., board of directors, reported.

another translator and antenna, as well as the necessary auxiliary equipment—or \$8,000 more.

There also is the on-going effort by interested local residents aimed at raising money for the purchase of a translator for use in rebroadcasting Oriental cultural programs and in-depth business and investment reports that are featured on Channel 22 in Los Angeles. At this time there is a temporary system in operation which enables a weak Channel 22 program signal to be received here, but money raised during an Oriental dinner and program on Feb. 17 at Cerro Coso Community College is earmarked for improvements to this system.

Scheduled for discussion at the next meeting of the board of directors of IWV TV Booster, Inc., are equipment changes at B Mt. that could improve the reception of Channels 2 and 4, as well as reception of

### Red Cross office changes to flexible hours of operation

The American Red Cross office, located at 55 Lauritsen Ave., China Lake, changed from regular to flexible hours of operation this week, according to Judith Lind, IWV Red Cross chairman. Appointments for persons in need of Red Cross assistance will be made at their convenience, during the day or evening.

The office had been staffed regularly by volunteer social caseworkers three days a week for two hours. "The regular office hours have been used very seldom, since emergencies tend to happen at any time. By making this change we hope to provide the same degree of service for those who need it while removing some of the burden from Red Cross volunteer workers," Mrs. Lind said.

Persons needing information or assistance from the Red Cross can contact a volunteer social caseworker any time of the day or night. Contacts are made through the NWC telephone operator, 939-9011, during normal working hours. Evenings and weekends the NWC Officer of the Day, phone 939-2303, will provide the name and phone number of a Red Cross caseworker for those who need it.

Red Cross social caseworkers locally provide communication and financial assistance for servicemen and their families who are faced with emergencies. In addition, the caseworkers stand ready to assist civilians when disasters strike in such forms as fires, floods, and earthquakes.

Additional information may be obtained from Mrs. Lind by calling 446-4387.



**DINNER SPEAKER** — Harold Peacock, from the Production Engineering Support Office in the Office of Secretary of Defense, discussed "Cost Effective Soldering" at the dinner on Feb. 23 which concluded the first half of the two-day Soldering Technology Seminar. —Photo by Ron Allen

formation between government and industry, thereby encouraging advancement in the state-of-the-art, Raby said. The end result, he feels, will be a better quality product that also is more cost effective.

With two such seminars now history, plans already are in progress for the third one next year. Prospective speakers are preparing to submit papers which must be supported by test data and be related to specific Naval Weapons Center programs, problems and identifiable resolution of such problems. He expects as many as 50 such papers to be submitted from which 10 will be chosen for presentation, Raby stated.



**IT'S ALL YOURS** — Jim Raby (at left) turns over the microphone to Dennis Bernier, vice president of Research and Development for the Kester Solder Co. The latter was one of the featured speakers during the morning session on the opening day of the Soldering Technology Seminar. His subject was "Solderability." —Photo by Ron Allen

seven Los Angeles area channels for residents who live between Inyokern and the old townsite of Brown.

New receiving antennas for Channels 2 and 4, which would require an outlay of approximately \$1,800, would remove horizontal lines now visible at times on Channel 2 and other imperfections in the reception of Channel 4.

To improve upon the reception of all seven L.A. area channels in the more distant areas north of Inyokern would require a change in the transmitting antennas at B Mt. at a cost of between \$300 and \$500 per channel.

Local area residents are being asked to contribute \$5 per person or \$10 per household for support of the TV Booster-FM radio system. This can be done by sending a check, made payable to "TV Booster," to the IWV TV Booster, Inc., P.O. Box 562, Ridgecrest, CA 93555.

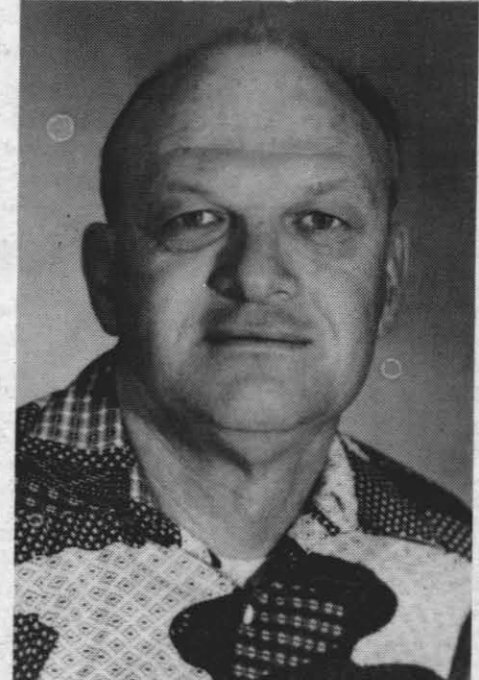
### Dan Tikalsky joins ROCKETEER staff as associate editor

Duties of associate editor of The ROCKETEER were taken over this week by Dan Tikalsky, a Navy photojournalist for more than 15 years, who retired from the Navy as a master chief journalist in 1966 after 20 years of military service.

At the time of his retirement, Tikalsky was the senior enlisted public information specialist in the Navy. Highlights of his two decades of active duty in the Navy include serving as special assistant for public relations to the Commander, Navy Support Activity, in Saigon, during the build-up of U.S. forces there in 1964-65.

For two years prior to that time (1962-64), Tikalsky was a speech writer and assistant to Secretary of the Navy Fred Korth, and, during the Cuban missile crisis in 1962 was the personal historian to Admiral George Anderson, Chief of Naval Operations.

Some of his other assignments were serving as special projects chief on the



Dan Tikalsky

Staff of the Commander-in-Chief Pacific Command from 1955 to '58, and for a year-long period (1959-60) he was editor of the Missile newspaper at Pt. Mugu. In addition, he worked on the Secretary of the Navy Newsletter and other publications from 1961 through 1964.

After retiring from the Navy in 1966, Tikalsky worked for several years in the Far East before returning to the United States. He settled down in Tucson, where he attended the University of Arizona, graduating with bachelor's degree in journalism in May 1977, followed by graduate studies in journalism.

He and his wife, Cu Thi, who will be joining him here as soon as the transaction on the sale of their home has been concluded, are the parents of three children. They are two daughters, Ellen, 11, and Susan, 10, and a son, Jay, who is 8 years old.

# Thermal Battery Manufacturing Conference held at China Lake

A two-day thermal battery Manufacturing Technology Conference was held last week at the Naval Weapons Center.

In attendance were seven representatives of Eagle-Picher, Inc., the Joplin, Mo., firm which manufactures most of the thermal batteries used by the Department of Defense, and nearly a dozen NWC employees who are involved in one of the first projects that is being carried out under the Navy's new Manufacturing Technology program.

## Photo Society to conduct picture-taking session at Anza Borrego Park

A field trip to the Anza Borrego State Park, in the desert area of San Diego County, has been scheduled on Saturday and Sunday, March 11 and 12, by the China Lake Photographic Society.

Participation in the field trip is open only to members of the local Photo Society and their families, but there is ample time between now and the dates of this outing to join the group.

Information on membership can be obtained by calling Milton and Betty Speckels, field trip leaders, at 375-4254, or Betty Curtis, the group's field trip chairman, phone 446-4818.

Registration to take part in the field trip on March 11 and 12 will be accepted by the Speckels and Mrs. Curtis on a first-come, first-served basis from both current and prospective new members of the China Lake Photographic Society.

Specific information will be provided, including maps of the route to take to reach the meeting place near Warner Springs, to those who register for this outing.

Plans call for leaving here on the morning of March 11 in time to reach the group's meeting place prior to 1 p.m. The driving time is approximately 4 1/2 hours, not including time for rest stops or meals.

This is expected to be one of the best seasons in years for viewing and photographing cactus and other desert plants in bloom in the Anza Borrego desert.

Ocotillo and barrel, fishhook, beavertail and hedgehog cactus all will be in bloom, as will such plants as phacelia, desert dandelions, white desert daisies, dune primrose and sand verbena.

High reliability is a requirement of thermal batteries, whose prime use is in conjunction with fuzes and guidance and control systems for a number of weapon systems.

Though comparatively small (being similar in size to a flashlight battery) thermal batteries must be capable of producing a high intensity of electrical power for a short duration of time. Another requirement is the ability to withstand rugged conditions and still maintain a long shelf life.

According to Milt Ritchie, an employee of the NWC Engineering Department's Materials Engineering Branch, who is manager of the Thermal Battery Project, the Center has a contract with Eagle-Picher, Inc., for process improvement. To begin the project, 70 thermal batteries — 60 of which were tested — were manufactured to determine if any discrepancies could be found between the firm's processing documentation and the way in which the batteries were being produced.

### Purpose of Conference

The purpose of last week's conference was to review the results of these tests and to develop recommendations that reduce costs and will improve upon reliability of the thermal batteries.

Mort Kurotori, the thermal battery project engineer from Code 3245, took the many and varied recommendations that were brought up during the conference and boiled them down into a small work assignment which placed priority on maximum cost reduction for the next batch of thermal batteries that are to be produced.

Other members of NWC's thermal battery Manufacturing Technology team are Phillip Wehle, a project assurance specialist from Code 3682, and Lou Prachia, a battery specialist from Code 3636.

The conference was opened with remarks by Dave Bullat, the NWC Manufacturing Technology Coordinator. Among the subjects covered were inspection techniques, manufacturing operations and tests, as well as cost analysis.

The conference was concluded by a discussion of opportunities for cost reduction in what is a government and industry partnership effort aimed at increasing the productivity and lowering the cost of manufacturing thermal batteries.



IDEAS EXCHANGED — Milt Ritchie (standing), manager of the Thermal Battery Project for NWC, led off a two-day conference to discuss thermal battery manufacturing technology. Included among those in attendance were (seated, l.-r.) Dick Fiinn, the in-plant representative for the Defense Construction Administration Services Management Area, Kansas City, Mo., and Dave Bullat, the NWC manufacturing technology coordinator. The others—all employees of Eagle-Picher, Inc., the thermal battery manufacturer—are (from left) Ron Repplinger, quality assurance manager; Jim Everitt, contract administrator; Dick Spencer, manager of the Thermal Battery Department; Mark Powers, production Engineer, and Ed Broglio, program manager. —Photo by Ron Allen

## Maturango Museum schedules field trip to Red Rock Canyon area on Saturday

A field trip to the Red Rock Canyon area is planned Saturday under the auspices of the Maturango Museum. Led by Ken Pringle, the trip will give interested persons a chance to explore the geology and ecology of that fascinating state recreation area.

Anyone who would like to join this outing is asked to meet at the Red Rock Ranger Station at 9 a.m. tomorrow. The ranger station is located to the west of the highway,

### Engineers' Week . . .

(Continued from Page 1)

another highlight of the evening was the presentation of the first local National Engineers' Week scholarship award. The recipient was James Starrett, a senior at Burroughs High School, who is planning a career in engineering and hopes to attend the University of Florida and study ocean engineering.

The Desert Empire Chapter of CSPE spearheaded the scholarship program, which it is hoped will become a regular part of the annual observance of National Engineers' Week, and was joined in raising the \$250 scholarship that was presented by the High Desert Engineering Association, local chapters of ASQC and IEEE, as well as by the Computer Sciences Corp., Systems Consultants, Inc., the Kerr-McGee Corp. in Trona, and the local branch office of Potomac Research.



SCHOLARSHIP PRESENTED — Inaugurating what it is hoped will be a regular part of the local observance of National Engineers' Week, a \$250 scholarship was presented to James Starrett (at right), a senior at Burroughs High School. The local youth is shown at the podium with Ray Van Aken, master of ceremonies for the evening. —Photo by Ron Allen

just off of the old Red Rock Canyon road.

Bob Berry, field trips' chairman for the museum's board of trustees, recommends taking the old road for about a mile past the point where it joins the main road at the north end of the canyon. Just to the south of the wash at the bottom of the canyon is a sign directing visitors to the ranger station.

In addition to a geological tour by Pringle, an employee of the Research Department's Warhead Dynamics Branch and an expert on local geology, Berry plans to show the tour group what a heavily impacted off-road vehicle area looks like during a short side trip to Dove Spring Canyon.

Other field trips that will be conducted this spring under the auspices of the Maturango Museum's board of trustees include three outings to the Little Petroglyph Canyon area in the Naval Weapons Center's range area. These trips, which will be open to a limited number of vehicles on a first-come, first-served basis, have been scheduled on April 15, May 7 and May 27.

Persons interested in participating in these field trips are asked to contact Carol Panlaqui, the museum curator, by calling 446-6900, on weekdays between 2 and 5 p.m.

### Deadline nears to apply for NRS educational loans

Applications for interest-free Navy Relief Society educational loans must be filed by March 15, Joanne Casmer, a volunteer worker in the NRS program at China Lake, said Tuesday.

Loans of up to \$1,250 per year are granted to eligible dependents of active duty, retired and deceased Navy and Marine Corps personnel, Mrs. Casmer reported.

Applicants must be less than 23 years of age and either high school graduates, currently in their senior year of high school or attending college. College students must have a 2.0 grade point average.

The amount of the loan is based upon how much of the student's total educational expenses are paid by parents and the student through summer work.

Loans may be granted for college, vocational training and attendance at service academy preparatory schools. Further information and applications may be obtained by writing the Navy Relief Society, 801 N. Randolph St., Arlington, Va., or telephoning (202) 692-4960 or Autovon 222-4960.

# Local sailor becomes citizen today after 6 1/2 years service

Today will be remembered as an important day in the life of Fred J. Binas, a dental technician 2nd class assigned to the local Branch Clinic of the Naval Regional Dental Center in Long Beach, for this is the day that the 6 1/2 year veteran of service in the Navy will become a naturalized citizen of the United States.

During a ceremony at Balboa Park in San Diego, DT2 Binas and a group of some 50 military personnel and civilians will take the oath of allegiance to the United States as part of a naturalization ceremony.

The local Navy man was born on the Island of Panay in the Philippines and served in the Marine Corps of the Republic of the Philippines prior to joining the U.S. Navy at Subic Bay on Luzon in July 1971.

Following basic training in San Diego, he attended A School for storekeepers, but after 18 months of training and duty as a storekeeper he switched to the dental technician field and completed the basic and advanced school in this career field, also at San Diego.

DT2 Binas, who has been a dental technician for nearly five years is slated for

## Some tickets remain for Kingston Trio dinner show

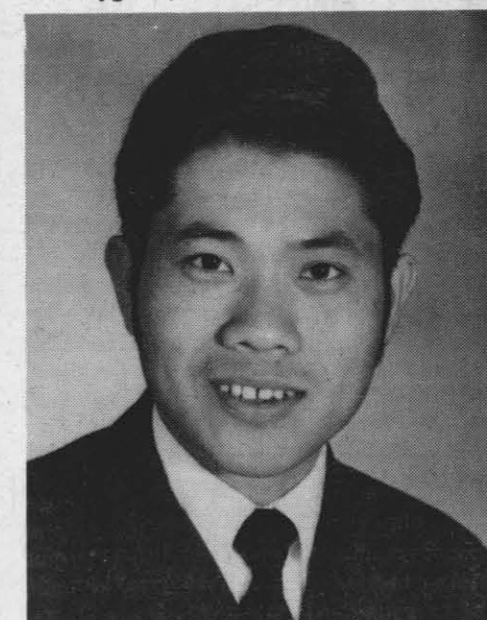
A few tickets may still be purchased for the Kingston Trio dinner show at the Commissioned Officers' Mess. There will be two shows — one at 10 p.m. and the second at midnight.

Tickets for both the show and the prime rib dinner are priced at \$12.50 per person. Dinner will be served from 6 to 9 p.m. with music for dancing beginning at 8. Reservations can be made by calling the COM, ph. 446-2549.

Tomorrow night the COM will serve a complete New York steak dinner for only \$5 from 6 to 10 and Tuesday night will be Mexican dinner night from 6 to 9 p.m.

advancement to DT1 on March 16. Prior to reporting for duty at China Lake, he attended the Advanced Dental Technician School in San Diego.

At the local Branch Clinic of the Naval Regional Dental Center, DT2 Binas is in charge of the appointment desk, handles correspondence for the clinic, serves as the X-ray technician, provides instruction on oral hygiene, and administers stannous



DT2 Fred J. Binas

flouride preventive dentistry treatments to dental patients.

While serving in the Philippines, he took advantage of extension courses offered by Laverne College in Laverne, Calif., to add to previous college credits he had earned while a student at the Philippine Law School. As a result, he now has a total of 60 units of college credits.

A single man, DT2 Binas enjoys swimming and playing football as a means of keeping physically fit, and, on the academic side, tries his hand at fiction writing.



CHAPLAIN RETIRES — Capt. Theodore C. Herrmann, ChC., USN (Ret.), Senior Naval Weapons Center Chaplain, is piped over the side following retirement ceremonies Tuesday, during which Rear Admiral William L. Harris, USN, NWC Commander, presented the chaplain with the Meritorious Service Medal and Mrs. Herrmann with a Navy Department certificate of appreciation that is awarded to the wives of retiring Naval personnel. Chaplain Herrmann was cited for outstanding meritorious service as senior chaplain at NWC from Aug. 16, 1975, to Feb. 28, 1978. —Photos by Ron Allen

## Credit Union to hold annual membership meeting Wednesday

The NWC Federal Credit Union will hold its 30th annual membership meeting Wednesday night, General Manager Bernie K. Schummer has announced.

"The purpose of the meeting is to inform members of the organization's financial status at the end of the year; where we are, and how we got there," Schummer said.

Results of the election to fill three vacancies on the board of directors and to choose two members of the credit committee will also be announced at the meeting, he said.

The meeting will begin at 8 p.m. at the Las Flores School, 720 Las Flores Ave., in Ridgecrest, and will be an "open forum" where anyone can ask questions concerning the past year's activities, or future plans.

## EEO Committee members sought

Individuals interested in joining the Naval Weapons Center's Equal Employment Opportunity Committee are being sought by Grant Williams, NWC's Deputy EEO Officer.

There are at least six vacancies on the EEO Committee. Persons interested in serving on the committee, or obtaining more information about what is involved, can call the EEO Office, NWC ext. 2738.

The EEO Committee is a task-oriented group which meets at least monthly and is called upon to devote at least two hours to EEO duties between meetings.

All applications for current vacancies on the EEO Committee must be received no later than April 1, and the terms of the new committee members who are chosen will begin on July 1.

(Continued from Page 2)

acts as receptionist, maintains files, makes travel arrangements, etc. Job Relevant Criteria: Ability to type accurately and efficiently; ability to operate a MAG Card or type writer; ability to get along with others in the work group; ability to meet deadlines under pressure; knowledge of Navy correspondence and local filing procedures.

Clerk-Typist, GS-322-3/4, PD No. 7455008, Code 531 — Applications will be accepted from both NWC employees and status eligibles. Position is located in the Guidance Branch, Product Design Division, Engineering Department. The incumbent acts as primary clerical support to branch personnel, is responsible for typing administrative and highly technical documents, acting as a receptionist, maintaining files, preparing travel orders and making travel arrangements. Job Relevant Criteria: Reliability and dependability in accomplishment of work assignments; ability to get along with people within and outside the work group; ability to work independently. Ability to operate a MAG Card II typewriter.

Model Maker, WG-4714-14, JD No. 418-N, Code 344 (multiple vacancies) — Positions are located in three branches of the Engineering Prototype Division of the Engineering Department including Experimental Model Shop, Mechanical Prototype Branch and Salt Wells Support Branch. Duties include machining, laying out, fitting, developing, assembling, designing, maintaining, modifying, installing, and constructing experimental models such as aircraft guided missiles, projectiles antennas, scientific devices, instruments, cameras and other ordnance and scientific items. The model maker is typically concerned with the entire experimental feature or model, and contributes in practical ways to its design. Frequently works from specifications detailing only the final working requirements of the complete model without detailing the steps and methods necessary to obtain the desired results. Able to apply personal knowledge and skill in at least one other trade with sufficient knowledge to establish the requirements for other tradesmen to follow and to accept or reject their work. Job Relevant Criteria: Ability to do the work of the position without more than normal supervision. Technical practices (ability to do the theoretical, precise, and/or artistic work of the trade). Knowledge of pertinent materials; ability to interpret instructions, specifications, etc. (including reading drawings); ability to use and maintain tools, instruments, and equipment. Supplements are required and may be picked up in Rm. 204 of the Personnel Bldg. Ad will run until March 10.

File applications for above with Janet Thomas, Bldg. 34, Rm. 204, Ph. 2925.

Clerk-Typist, GS-322-3/4, PD No. 7195001-3N, Code 012 — This position is located in the Office of Patent Counsel. Duties include typing material of a legal and technical nature, processing inventions disclosures and reviewing for proper signatures and completeness of related attachments. Incumbent also maintains patent case files and administrative files, orders supplies, and serves as timekeeper. Job Relevant Criteria: Ability to type accurately and efficiently; ability to get along with others in the work group; ability to meet deadlines under pressure. Although duty station is NWC, China Lake, incumbent will

## Promotional Opportunities

be employed by Office of Naval Research, Arlington, Va. Secretary (Typing), GS-318-5 PD No. 731021, Code 31408 — This position is located in the A-6/A-7 Program Office, Avionics Division, Systems Development Department. The incumbent performs secretarial duties for the head, A-6/A-7 Program Office. These duties include receiving and screening telephone and office callers; composing and typing letters, memoranda, technical notes and reports; resolving and distributing mail; making appointments and travel arrangements; and performing miscellaneous clerical duties. Job Relevant Criteria: Ability to type efficiently and accurately; knowledge of correspondence policies and procedures; knowledge of the organization; ability to deal tactfully and effectively with personnel at all levels; ability to exercise judgment, initiative, and resourcefulness; and ability to meet deadlines under

pressure. Previous applicants need not reapply. File applications with Pat Gaunt, Bldg. 34, Rm. 212, Ph. 1514.

Inventory Management Specialist, GS-2010-09, PD No. 7835022N, Code 35502 — This position is that of Inventory Management Specialist, located in the Countermeasures Division of the Electronic Warfare Department. The incumbent will provide logistic support for the acquisition of materials and spare parts. He will establish information on available components, frequency of component failure, system component installation, and available substitution items. He will develop and maintain integration and maintenance systems designed to provide storage, inventory and easy retrieval of spare parts. Job Relevant Criteria: Experience in establishing and maintaining inventories; experience in the generation and operation of spare parts mean-time-between-failure logs; knowledge of electronic and mechanical hardware; knowledge of the Navy supply system.

Safety Specialist, GS-018-7/9, PD No. 7824000 or 7824001, Code 245 — This position is that of safety specialist located in the Explosives and Laboratory Safety Division of the Safety and Security Department. The GS-7 level is a trainee position. At the GS-9 level, the incumbent is responsible for developing the safety program in his area. He will assist managers in the formation and guidance of safety committees. He will assist managers by conducting safety surveys of their respective shops in order to eliminate hazardous conditions, recommend the necessary corrective action, and determine the need for new program development. He will prepare safety education material for the organizations he serves. Job Relevant Criteria: Knowledge of safety principles; knowledge of the techniques of accident prevention; knowledge in the area of chemistry acquired through academic course work; ability to write clear and concise reports. Promotion potential: GS-12. Applications will be accepted from status eligibles.

Physicist, Mathematician, Engineer or Operations Research Analyst, GS-1310, 1520, 800 or 1515 series, GS-12/13/14, PD No. 7300012, Code 01 — This is an interdisciplinary position classified in whichever of the above series the individual selected is qualified. This ad will establish a list of eligibles for possible consideration for the position of Laboratory Representative. Assignments are for approximately one year and require re-location. In his/her particular area of expertise; the incumbent works directly with Naval or Marine Corps personnel to solve hardware or software problems being experienced in equipment developed and/or tested in the Naval Labs. Provides on-site RDT&E technical expertise to the Science Advisor and the Commander of the particular laboratory assigned. Job Relevant Criteria: Professional scientific/technical experience in direct support of Navy or Marine Corps related to ships, submarine and/or aircraft systems; knowledge of current state of work being done in R&D toward present and future problems in Naval Weapons Systems. Previous applicants need not reapply.

The list of eligibles established for three positions will be effective through Jan. 31, 1979, and are subject to re-advertisement at the request of the NSAP Coordinator. File applications for the above with Cathy Rivera, Bldg. 34, Rm. 206, Ph. 2723.

Supervisory Firefighter, GS-081-10, PD No. 7284001E, Code 242 — This position is that of Deputy Fire Chief. The incumbent is responsible for the day to day operation of the Naval Weapons Center (NWC) Fire Division comprised of approximately 100 firefighters and 25 major (Continued on Page 7)

## New rental rates effective April 1

| Type of Housing                  | Shelter Rent | Utility Rates |         | Total    |
|----------------------------------|--------------|---------------|---------|----------|
|                                  |              | Old           | New     |          |
| SOQ (4)                          | \$352.20     | \$71.40       | \$96.60 | \$448.80 |
| SSQ Sage (3)                     | 278.40       | 87.90         | 115.50  | 393.90   |
| SSQ Saratoga (3)                 | 247.50       | 87.90         | 123.00  | 370.50   |
| Sierra (4)                       | 309.60       | 61.50         | 80.70   | 390.30   |
| Coso (3)                         | 300.60       | 58.80         | 74.40   | 375.00   |
| Panamint (4)                     | 260.40       | 65.10         | 80.10   | 345.50   |
| Panamint (3)                     | 251.70       | 59.70         | 77.10   | 328.80   |
| JOQ (Rear Terrace) (3)           | 258.60       | 58.50         | 73.50   | 332.10   |
| JOQ (Front Terrace) (3)          | 245.10       | 57.90         | 75.90   | 321.00   |
| JOQ (Front Terrace) 1 Bath (3)   | 242.10       | 57.90         | 75.90   | 318.00   |
| JOQ (Rear Terrace) (2)           | 210.60       | 51.00         | 66.60   | 277.20   |
| JOQ (Front Terrace) (2)          | 196.80       | 50.40         | 65.70   | 262.50   |
| MOQ (3)                          | 233.40       | 66.90         | 89.40   | 322.80   |
| Hill Duplex (3)                  | 221.40       | 57.90         | 75.60   | 297.00   |
| Not Duplex (3)                   | 198.00       | 51.00         | 67.20   | 265.20   |
| Wasp Circle (3)                  | 211.80       | 64.50         | 89.40   | 297.00   |
| Joshua (4)                       | 227.70       | 61.50         | 78.30   | 306.00   |
| Yucca (4) (Convertible)          | 229.80       | 58.80         | 73.80   | 303.60   |
| Tamarisk (4) (Convertible)       | 219.00       | 58.20         | 71.40   | 290.40   |
| Juniper (3)                      | 219.00       | 56.10         | 70.20   | 289.20   |
| Normac Duplex (3)                | 205.20       | 58.80         | 77.70   | 282.90   |
| Normac Duplex (2)                | 179.70       | 50.40         | 61.80   | 241.50   |
| Old Duplex (3)                   | 190.50       | 57.90         | 75.60   | 266.10   |
| Old Duplex (2) (Dining Addition) | 183.30       | 51.00         | 66.90   | 250.20   |
| Old Duplex (2)                   | 158.10       | 50.10         | 65.10   | 223.20   |
| Old Duplex (1)                   | 120.90       | 40.20         | 52.20   | 173.10   |
| Normac (4)                       | 232.50       | 70.80         | 96.30   | 328.80   |
| Normac (3)                       | 164.40       | 54.90         | 67.50   | 234.90   |
| Normac (2)                       | 142.50       | 44.40         | 59.70   | 207.00   |
| Normac (1)                       | 113.40       | 39.90         | 53.70   | 167.10   |
| LeTourneau (2)                   | 142.50       | 45.90         | 60.60   | 203.00   |
| Motel Apartment (1)              | 116.10       | 20.10         | 36.00   | 152.10   |
| Motel Apartment (0)              | 70.80        | 19.80         | 33.00   | 103.80   |
| Old Apartment (3)                | 143.40       | 42.00         | 63.90   | 207.30   |
| Old Apartment (2)                | 120.90       | 33.90         | 53.10   | 174.00   |
| Old Apartment (1)                | 100.50       | 25.50         | 42.00   | 142.50   |
| Card Street Apartment (2)        | 152.40       | 37.80         | 54.30   | 206.70   |
| Mobile Home Space                | 28.50        | 17.90         | 36.90   | 65.40    |
| Dormitory —                      |              |               |         |          |
| Single w/ Private Bath           | 79.80        | 23.20         | 23.70   | 103.50   |
| Single w/ Semi-Private Bath      | 65.40        | 13.20         | 23.70   | 89.10    |
| Double w/ Semi-Private Bath      | 53.40        | 13.20         | 23.70   | 77.10    |
| Dormitory Apartment              | 108.90       | 21.00         | 32.40   | 141.30   |