Aviation Maintenance Administrationman (AZ) 3rd Class Steve Nixon recently represented the Naval Weapons Center in the Eleventh Naval District (Southern Division) talent contest held in San Diego.

AZ3 Nixon sang an original composition, titled "Dreaming" and accompanied himself on the piano. Although he didn't place in the top three musical acts, his composition was well received by the audience.

Since reporting to NWC for duty in the Aircraft Department in August 1976, he has played at a number of departmental Christmas parties. AZ3 Nixon also was the accompanying pianist last summer for the Community Light Opera and Theatre Association's production of "How To Succeed in Business Without Really Trying."

Even though he has never had any voice lessons, Nixon started playing the piano when he was nine years old. He began taking piano lessons in junior high school



**AZ3 Steve Nixon** 

and continued them through high school and also at the Jordan College of Music in Indianapolis, Ind.

When he entered the Navy in April 1976, he tried to get into the Navy Band, however he was unsuccessful due to billet limitations. Consequently, he decided to go into the AZ rating and was sent to the Navy's AZ school at the Naval Air Station, Meridian, Miss.

AZ3 Nixon is still pretty serious about his music. "I try to practice every day and average about 16 hours a week at the piano," he said. For his practice sessions, he either uses the piano in the Community Center or one that he bought in Los Angeles, a Fender-Rhodes electric, that he keeps at a friend's house.

He is presently studying music theory at Cerro Coso Community College in his offduty time. He is also taking general courses there and hopes to obtain his associate of arts degree before his Navy enlistment is up next year. After that he plans to return to college to work for a bachelor of arts degree in music.

AZ3 Nixon is single and lives in the Bachelor Enlisted Quarters on the Center.

#### **Blue Cross insurance** agent to visit Center

Jean Sainsbury, the Blue Cross/Blue Shield Insurance representative, will be at the Community Center on Monday, March 12, from 10 a.m. to 1 p.m.

Enrollees in this health insurance plan who wish to talk to Ms. Sainsbury will be seen on an appointment-only basis. Starting Monday, March 5, such persons can make arrangements for an appointment by placing their names on a sign-up sheet that will be available at the front desk of the Community Center.

No appointments will be taken over the telephone, Art Amos, manager of the Community Center, emphasized.



U.S. Navy Band from Washington, D.C.

for two months at a time.

# U.S. Navy Band to offer varied musical program during concert this evening at Center theater

group of 46 musicians, two vocalists, the

concert moderator, an audio engineer and a

combination stage manager/lighting

technician. In addition, there is a truck

filled with five tons of assorted musical

instruments plus all of the other equipment

necessary for the band to be self-sufficient

Not only has the U.S. Navy Band traveled

throughout the continental U.S., but its

fame has been spread by performances in

A varied musical program that will open travel for the U.S. Navy Band's touring Germany, South America, Puerto Rico, with George Gershwin's "Strike Up the Band" and conclude with a special arrangement of "I Am the American Sailor" (narrated by Jere Wallace), will be presented tonight at 7:30 at the Center theater by the U.S. Navy Band from Washington, D.C.

Tonight's concert will be the second local appearance here by the Navy Band, which is currently embarked on its 1979 spring tour. For those who do not yet have tickets, there are some still left which can be purchased at the theater. The box office will be open from 4:30 p.m. until the program

The admission charge is \$4.50 for general admission and \$2.50 for enlisted military personnel and students. Arrangements for the U.S. Navy Band's performance here have been made by the Desert Community Orchestra Association, and all proceeds above expenses will go into a Desert Community Cerro Coso Community College Orchestra scholarship fund.

Two large buses provide the means of

Concert by

"UNITED STATES NAVY BAND"

1 p.m. Youth Matinee

"RETURN TO BOGGY CREEK"

Starring

(92 min., rated G)

1:30 Matinee - regular adm.

"DARK SUNDAY"

Starring

Earl Owensby and Sheree White

(112 min., Rated R)

"THE CAT FROM OUTER SPACE"

Starring

Ken Berry and Sandy Duncan

(104 min., rated G)

THE GREAT BRAIN"

Starring

Jimmy Osmond and Pat Delaney

(89 min., rated G)

"PINK FLOYD"

Starring

Pink Floyd Rock Group

(85 min., rated G)

Starring

Charlton Heston and Ken Annakin

(105 min., rated G)

1:30 Matine - regular adm.

"IN THE DEVIL'S GARDEN"

Suzy Kendall and Frank Finley

(91 min., rated R)

SATURDAY
"THE CALL OF THE WILD"

WEDNESDAY



MARCH 2

MARCH

MARCH 10

**Concert Moderator** 



CPO Club

Tonight the Chief Petty Officers' club will present a new contemporary music group from the Los Angeles area called "Southern Comfort." The group will perform from 9 to 1 a.m.,

following a prime rib of beef dinner. The CPO Club staff wishes to remind

everyone once again to get tickets early for the annual CPO Military Ball, which has been rescheduled on March 24.

The Chief Petty Officers' Club announced this week that there will be a St. Patrick's Day dance on Friday, March 16.

The dinner special for that evening will be prime rib of beef served from 6 to 9 p.m. Further information about the dinner and

dance will be presented in later issues of The ROCKETEER Enlisted Mess

Tonight the Enlisted Mess will present a new rock music and disco group from the Los Angeles area called "The Rhythm

The visiting musicians will be performing from 9 to 1:30 a.m., following a dinner featuring a sea food platter with lobster.

Bermuda, Panama, Haiti and the Virgin Islands. Since making its first national concert tour in 1925, the band has played approximately 3,300 concerts in 2,000 citi for audiences that total over two millio

March 2, 1979

In addition, the band's concerts beneath the domes of the Capitol and at the Jefferson Memorial have become a summertime institution in Washington, D.C.

Under the baton of its recently selected leader, LCdr. Joseph Phillips, the Navy Band reflects the professionalism of today's United States Navy. It is proud of its musical heritage and continues to build on the strong foundation established in 1925.

### **Burroughs High PTA** 3rd annual popcorn sale to begin today

The third annual popcorn sale by the Burroughs High School Parent-Teachers Association (PTA) begins today and will continue through Friday, March 16.

Proceeds from popcorn sales will be used by student clubs, to complete the concrete bench at the high school and for school beautification projects.

Popcorn is being sold in front of Albertson's Market and outside the Community First National Bank in Ridgecrest, and at the China Lake Federal Credit Union today and Monday from 10 a.m. to 6 p.m.

For the remainder of the time until March 16, high school student club and PT members will be selling popcorn in

Boxes of four packages of popcorn are priced at \$1.50 each. They include a coupon for one free hamburger with the purchase of a hamburger at a fast food eating place in Ridgecrest.

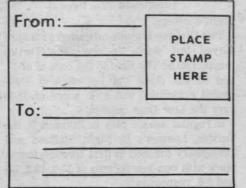
Anyone interested in placing telephone orders for popcorn may do so by calling 446-4215 or 446-4350.

#### **Tech Information Center** open extra 2 hrs. daily

A change in the hours of operation at the Technical Information Center (TIC) will go into effect on Monday.

Beginning March 5, the TIC will be open Monday through Friday from 7:30 a.m. 4:30 p.m. Previously, the Technical Library opened at 9:30 a.m. on week days.

U.S. Government Printing Office:



## **Naval Supply** Corps observes 184th birthday

The 184th anniversary of the Naval Supply Corps was duly noted and observed at the Naval Weapons Center by a cakecutting ceremony held last Friday morning at the Enlisted Dining Facility.

Capt. Joel D. Killoran, NWC Director of Supply, officiated at this event, and was joined by a group of Supply Corps officers and chief petty officers.

The Navy Supply Corps traces its history back to 1795 when Congress created the post of Purveyor of Public Supplies. Trench Francis was the first appointee to that position. As the prototype of the Supply Corps officer, he was responsible for providing material support to the six wooden frigates that comprised this country's infant Navy.

Phenomenal Changes Made

It is a far cry from the crude logistics required to support the original six ships provided in the Naval Armaments Act of 1794 to the support of the nuclear powered Navy of today.

In recent years, the Navy has progressed from guns to missiles and nuclear warheads, and from fuel oil to atomic power. The supply system, those in charge emphasize, has not simply kept pace with the Navy's space age weaponry; it has pioneered and blazed trails in supply management to support the space age

Supply Corps officers are the "business managers of the Navy," and play an important role in today's sophisticated Navy. They receive special training in financial management, procurement, transportation, petroleum management, and a number of other business management areas that help support the Navy.

Officers Well Trained Most Supply corps officers are college graduates; all are graduates of the Navy Supply Corps School at Athens, Ga., and more than 20 percent of them hold advanced degrees as well.

The Navy supply system interfaces with all facets of Navy life. Food, clothing and lodging are all provided to service personnel, but its main function is to keep ships, aircraft and personnel equipped and functioning in order to help protect this country's national interests.

Here at the Naval Weapons Center, the numerous functions of the Supply Department include overseeing purchasing contracts, providing food service, control and inventory of thousands of line items of



Vol. XXXIV, No. 9

March 2, 1979

# Dr. Wilkins receives Technical Director Award

heads the Imaging Infrared Office in the NWC Weapons Department, received the Technical Director Award in recognition of outstanding technical accomplishment during the Commander's meeting held Monday morning in the Management Center of Michelson Laboratory.

The award was presented by Bob Hillyer, NWC Technical Director, who congratulated Wilkins for his efforts as program manager for the Optical Signatures Program Office (Code 39403). According to the letter of commendation which accompanied the Technical Director

Award, the result of Dr. Wilkins' work was the establishment of a Navy-wide signature collection, analysis, and modeling program.

While making the presentation of the Technical Director Award to Dr. Wilkins, Hillyer complimented the recipient on his excellent handling of both the technical and political aspects of this Chief of Naval Material program on the transmission of optical signatures through the atmosphere. In addition to the letter of commendation,

Dr. Wilkins also received an engraved paperweight and a \$200 stipend which accompanies this special form of a Superior Achievement Award.

For a period of three years prior to last September, Dr. Wilkins was program manager for the Optical Signatures Program Office, where he was responsible for the management of signature measurements of air and surface targets



was presented Monday morning to Dr. Lowell H. Wilkins (at left) by Bob Hillyer. The award was in recognition of Dr. Wilkins' outstanding accomplishments as program manager for the Optical Signatures Program Office (Code 39403) in the Weapons Department.

and backgrounds in the ultraviolet, visible, and infrared spectral areas. In this capacity, he was authorized to represent the Navy in negotiating the exchange of significant signature data with other

military installations and foreign agencies. Dr. Wilkins' professionalism and high level of efficiency in this effort, along with the fact that he is recognized as one of the

# Update on status of Coso geothermal development presented by Capt. Kinley at Lone Pine CofC dinner

functions of the Naval Weapons Center as a research and development laboratory under the Chief of Naval Material was presented last week during the installation of officers of the Lone Pine Chamber of Commerce.

The speaker was Capt. F. H. M. Kinley, NWC Vice Commander, who also presented an update on the status of the Coso

use of motion picture film clips and film

"NWC is chartered with an important and broad mission - to provide the Fleet with air warfare systems and missile weapons systems to meet current and future threats. To carry out these tasks," the NWC Vice Commander told his audience, "we par-

geothermal development. Throughout his ticipate in all aspects of weapons presentation, Capt. Kinley made extensive development and can carry a concept from the mind of a scientist or engineer through development and testing to the Fleet."

The Center's responsibility for a system does not end there, Capt. Kinley added, for it continues as long as the system is used by the Fleet. Shown during this opening portion of the program were film clips of airlaunched weapons that can be used to attack land and sea targets, air-to-air weapons to defend against sophisticated enemy aircraft, and surface launched missiles that can be deployed for protection of U.S. Navy ships.

#### **Unique Test Facilities**

"Our relative remoteness and the ideal weather conditions are essential to our job It is a military installation with 200 different types of indoor test facilities - many of them unavailable in the private sector," Capt. Kinley emphasized.

In addition, the speaker pointed out, the airspace over a much larger area is available principally for military use. This airspace is shared with the Air Force at Edwards and George Air Force Bases and with the Army at Fort Irwin. When the airspace is not being used, such as at night and on most weekends, it is released to the Federal Aviation Administration control for commercial and light plane use, the NWC Vice Commander told his listeners.

"Our land and airspace are critical to accomplishing our mission. NWC is one of the few remaining military installations with sufficient land and air space to test weapons under flight conditions and ensure that hazardous test vehicles are recovered safely," Capt. Kinley said prior to showing films taken by tracking cameras mounted in chase planes and carried on board aircraft from which weapons were launched.

(Continued on Page 4)



cake was baked last Friday in observance of the 184th an- Robert J. Boyd, Navy Exchange officer; LCdr. Edward L. Biggs, inversary of the establishment of the Navy Supply Corps. Capt. J. head of the Planning and Aministrative Division of Code 25; Cdr. D. Killoran (in center), the NWC Director of Supply, officiated at James E. Gaines, Deputy Director of Supply; Ltjg. Michael J. the cake-cutting ceremony, assisted by MSC Rogello Del Parto Kasper, head of the Aviation Supply Division (Code 258), and SKC and Ltjg. John Messinger, head of the Food Services Division in Augusto B. Mariano, assistant head of Code 258. The birthday Code 25, who are displaying the cake. Other Supply Corps officers cake which was baked and decorated by MS2 Kevin Fornes, was and chief petty officers present for the occasion were (I.-r.) served last Friday night at the Enlisted Dining Facility.

NAVY SUPPLY CORPS ANNIVERSARY — A special birthday Master Chief J. D. Holley, Commissary Store officer; Ltjg.

throughout southern California competed in

the fifth annual George Washington's Birth-

day 8 mile run sponsored by the Over-the-

Hill Track Club (OTHTC) last Saturday at

the Desert Empire Fairgrounds in

Bill Sloan, 22, of Ridgecrest, in one of his

first competitive distance races, crossed

he finish line first in the time of 67 min., 37 sec. He ran the course in 54 min. and 17 sec.

but was aided by a 13 min., 20 sec., head-

start over the speedier runners in this

Bill Norris of Ridgecrest placed second in

Walt Hill of Covina and Frank Delach of

Agusa, representing Athletes in Action,

posted the fastest times of the day with

marks of 44:29 and 46:17, respectively. They

were closely followed by Dennis Stansaulk

of the San Fernando Valley Track Club

(46:26), and by two OTHTC members, Tom

Kelly Wells, a senior at Quartz Hill High

romen. She was clocked at 52:43. The high

School, turned in the best time for the

school girl ran the first four miles in 6 min.

and 22 sec., but the wind held her back

In the husband and wife team com-

petition, Dennise and Orville Stoeber from

West Hollywood won a set of engraved

medals by a slim margin of 2 min., 43 sec.,

Fisher Plastering

cuts into Elks' lead

in Premier League

A three-game match Monday night bet-

ween the top two teams in the Premier

League saw the Elks Lodge lead slip to a

single game as a result of losing two out of

three games to second place Fisher

At the same time, the battle for third

place has developed into a three-way tie

between the Raytheon Sidewinders, Sad-

dleback Tackle and the Hideaway keglers.

The Fisher Plastering squad garnered

both high team game (947) and high team

Just two bowlers were over the 600 series

mark. They were George Barker, whose 3-

game total was 616, and Pat Nalley, who

Benny Whiteside had the highest single

game score (248) for the night. Others who

had single games in excess of 220 were Thad

rightwell (248), Nalley (227) and Barker

(Continued from Page 6)

Additional information can be obtained

by calling the gymnasium office at NWC

Summer Softball Program

softball play and men's fast pitch division

competition will be held on Monday and

Tuesday, starting at 5 p.m., at the Com-

A similar session on the subject of men's

The summer season of intramural league

Intramural League. . .

(Continued from Page 6)

Two Division B make-up games also were

played last week. In one. The Turtles

mopped up on The Heat to the tune of 67-37,

and in the other the Loewen's B team

posted a lopsided win by a score of 72-39

In regular season play in Division B, the

slow pitch softball was held yesterday.

softball play will begin on May 1.

Meetings to discuss plans for women's

(approximately \$2) for instructional

Rec. Roundup . . .

series (2,787) honors for the night.

Plastering squad.

had a 602 series.

Ext. 2334 or 2571.

munity Center.

Night Stalkers.

during the final four miles of the race.

McMahon, (46:50) and Tom Rindt (47:22).

68.21, while Gary Stansauk of Reseda came

Portsmouth start system race.

in third. His time was 68.50.

Ridgecrest.

Distance runners from wide area compete



INSTALLATION CEREMONY HELD — A new slate of officers whose members will direct activities of the Indian Wells Valley Chapter of the Retired Officers' Association for the coming year was installed recently during a ceremony presided over by Capt. F. H. M. Kinley (at left), NWC Vice Commander. The president's gavel was accepted by Keith Manfull, who was re-elected to serve for another term. The association's other officers are (from left) George Myer, first vice-president and membership chairman; John Millikan, treasurer; and Barbara Tunget, secretary. William Danley, the group's second vice-president and program chairman, was unable to be present for the photo.

# Safety study reveals China Lakers should use care in backing vehicles

To help all personnel of the Naval Weapon Center and their dependents develop more traffic safety awareness, the following information is provided by the Safety and Security Department.

There were approximately 135 vehicle accidents which occurred on the Center in 1978. These involved either private, government or contractor vehicles.

The largest number of accidents occurred while the vehicle was in reverse gear. There were 32 backing accidents. Drivers backed up into other vehicles, lamp posts, trees, stop signs, fire hydrants, etc.

In 24 of the mishaps, the vehicle was being driven forward and hit a fixed object such as a gate, traffic sign, lamp post, etc. In four accidents, the vehicle struck a parked

There were 16 rear enders. Most of these occurred in the access lane from China Lake Blvd. to Halsey Ave. at the main gate, however some of them took place at other

Ten drivers violated the right of way of another driver at an intersection and an accident occurred.

Sixteen hit and run accidents indicated the drivers who did damage with their vehicle did not stay around or report it.

There also were nine reported motorcycle accidents. One of these involved a car vs. Navy's Human Relations Council. motorcycle incident.

Various other accidents were the result of such things as a pedestrian running in front permit transportation of enlisted personnel of a car, a bicycle vs. car, loose dogs run- between troop billets and work areas, but ning across the street in front of cars, a government provided transportation betpassenger door being opened while the car ween domicile and place of employment is was moving, and parked vehicles left not authorized.

### **Promotional opportunities**

with the Naval Weapons Center may contact the Employment-Wage and Classification Division, Code 092, Ext. 2049. Ads will run for one week and will close at 4:30 p.m. on the Friday following their appearance in mis ate within the last six months are encouraged to file a Form 171 or 172 in their personnel jacket. Infor concerning the Merit Premotion Program and the evaluation methods used in these promotional opportunities may be obtained from your Personnel Management Advisor (Code 096 or 097). Advertising positions in the Promotional Opportunities column does not preclude the use of alternate recruiting sources in filling these positions. As part of the rating process, a supervisory appraisal will be sent to the current supervisor and the most recent previous supervisor of those applicants rated as basically qualified. The Naval Weapons Center is an equal opportunity employer and selection shall be made without discrimination for any nonmerit reason. The minimum qualification requirements for all GS positions are defined in CSC Handbook X-118, while these for all WG, WL and WS positions are defined in CSC Handbook X-118C.

Clerk-Typist, GS-322-4, PD No. 7465027, Code 091 - This ition is located in the Employee Management Relations Division of the Personnel Department. The function of the division is to provide staff services to Center management and to discharge Personnel Department responsibility in the areas of labor relations, employee services and employee relations. Incumbent of this position provides clerical support to the division in the incentive awards program, in the insurance and retirement program, and other employee-relations programs as needed. Incumbent checks incentive awards submissions for accuracy and collates for proper investigation, distribution, and review. Incumbent types letters, memorandums, reports, minutes of meetings, and NWC Instructions from rough drafts and notes, and otherwise performs all clerical tasks assigned in support of division operations. Job Relevant Criteria: Ability to type accurately and efficiently; ability to comprehend and apply regulatory information; ability to use tact and discretion in dealing with all levels of NWC

ROCKETEER

File applications for the above with Jan Nieberlein. Bldg. 34, Rm. 204, Ph. 2577.

Supervisory Technical Publications Writer/Editor (PS&E), GS-1083-12, PD No. 7923004E, Code 2312 - This position is Head, Editing Branch, Publications Division, Technical Information Department. The branch head supervises and manages the branch activities, provides guidance in the editing and publishing of (primarily) technical reports, performs complex editing assignments, and coordinates the branch assignments with that of other organizational units engaged in the NWC publishing process. Supervisory duties include assigning, prioritizing and evaluating work; evaluating performance, training staff, and effecting minor disciplinary actions and recommending an action in more serious cases, etc. Job Relevant Criteria: Ability to supervise a small work force; nowledge of scientific and / or technical subject matter; ability to edit technical reports, ability to write technical reports; knowledge of the publishing process; knowledge of the principles and techniques of composition, illustration, layout, and printing.

Police Officer, GS-083-3/4/5, PD Nos. 884015N 748018N, 7184019N, Code 2413 - This position is that of police officer and is located in the Police Division of the Safety and Security Department. The incumbent will train in all aspects of law enforcement. This training will be both of formal and informal nature. He will patrol his assigned area with a senior police officer, conduct inary investigations, apprehend offenders, regulate traffic, maintain physical security of sensitive areas and prepare reports. Job Relevant Criteria: Knowledge of law methods and principles; ability to work under stress situations; experience conducting investigations; knowledge of the geographical layout of communicate effectively in writing; ability to exercise

Police Officer, GS-083-4/5, PD No. 7724029N, Code 2413 - Applications will be accepted from both NWC employees and status eligibles. This position is located in the Police Division of the Safety and Security Department ncumbent will perform his duties as uniformed patrolman. He will be responsible for the prevention of iminality repression of crime, apprehension of of fenders, recovery of property, regulation of non-criminal conduct including traffic control and enforcement. In addition, to these duties the incumbent will function as the division canine handler. The incumbent will train in all aspects of narcotics and explosive detection utilizing a olicedog. Job Relevant Criteria: Ability to work in stress situations; ability to exercise good judgment; knowledge of police investigation and patrol procedures; knowledge of laws and regulations; experience working with animals Summary of qualification requirements - GS-4 two years law enforcement experience; GS-5 three years law en-File applications for the above with Charlotte

Electronics Engineer, GS-855-11/12, PD No. 7833069E, Code 3336 — Applications from status eligibles will be accepted. This position is located in the Phoenix Fuze Systems Branch, Fuze Systems Division, Fuze and Sensors Department. The incumbent will be responsible for the design and development of electronic components electronic equipment or test sets for use in testing TDs and components; he will also perform test, analysis and valuation of TDs and associated items. Job Relevant Criteria: Ability to design, develop, test and analyze electronic components and circuits; knowledge of systems; ability to work well with others.

Sieckowski, Bldg. 34, Rm. 208, Ph. 3118.

Electronics Mechanic Helper, WG-2614-5, JD No. 645, Saturday Code 3315 — Applications will be accepted from status eligibles. Previous applicants need not reapply. This position is located in the Design and Fabrication Branch. Sensor Systems Division, Fuze and Sensors Department Incumbent will assist electronic mechanic, model maker or technicians in the fabrication, modification, repair, test and calibration of electronic equipment. Occasionally required to wind and encapsulate coils, transformers and resistors. Job Relevant Criteria: Reliability and dependability; shop aptitude and interest; ability to follow directions in shop; dexterity and safety; ability to work as

a member of a team. Promotion potential to WG-11. Clerk, GS-301-3, PD No. 7825006N, Code 25751 - This Receipt Control Branch, Control Division, Supply Department, Duties include screening incoming documents and files, preparing files for the Audit/ Processing Section, matching receipts and invoices, preparing complete files for voucher examiners, etc. Job Relevant Criteria: Ability to understand and retain numerous instructions as to processing different documents; ability to comprehend a variety of documents to be identified, categorized and distributed; knowledge of supply functions and procedures. Promotion potential to GS-4. Applications accepted from status eligibles.

File applications for the above with Ginger Hamaty

Computer Scientist, GS-1550-12, PD No. 7931014 (4 vacancies), Code 3144 - These are interdisciplinary positions located in the Aircraft Weapon Control Systems Branch, Avionics Division, Systems Development Department. The incumbent is responsible for develop ment of advanced tactical avionics systems, avionics on such projects as the A-7 and F-18 aircraft and the AAAS program. Position involves electronic hardware and computer software development; integration and checkout of experimental system models; technical planning, definition and conduct of system test and development, test and evaluation of technical efforts of personnel assigned to assist in the system engineering tasks. Job Relevant Criteria: Must possess a broad background in the fields of aircraft avionics, armamen systems and aircraft weapon / stores; must be proficient technical development projects; must express hi self / herself effectively both orally and in writing; must be adept at working with and coordinating persons of varied disciplines and rates

Electronics Engineer, GS-855-7 / 12, Computer Scientist GS-1550-7 / 12, PD No. 7931013, (5 vacancies), Code 3144 -

System Branch, Avionics Division, Systems Developmen Department. The incumbent is responsible for development of integrated electronic systems for use in airborne tactical avionics, laboratory support facilities, and operational system maintenance equipment. The positions involve analysis, design, development, integration and testing of electronic hardware and computer software systems for the A-7 and F-18 aircraft, as well as for the Advanced Aircraft Armament System (AAAS) Program.

Job Relevant Criteria: GS-7 / 9 must have a background in orally and in writing; must be able to deal effectively with project personnel. GS-11 must have a background in stores; must have a background in digital avionics. armament systems and weapons/stores; must have systems; must be able to deal with other personnel ef fectively; must be able to communicate effectively orally and in writing. GS-12 must possess a broad background in the fields of aircraft avionics, armament systems and weapons / stores; must be proficient in planning, coordination and conduct of complex technical development projects; must be adept at working with and coordinating the efforts of persons of various disciplines and rates Previous applicants need not reapply.

File applications for the above with Pat Gaunt, Bldg. 34 Rm. 212, Ph. 2514.

Clerk-Typist, GS-322-4, PD No. 754086, Am1, Code 3263 -The incumbent is secretary in the Weapons Systems Branch, Conventional Weapons Division, Ordnance

#### DIVINE SERVICES

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

ROMAN CATHOLIC

Thursday Men's Prayer Breakfast

MASS 1700 fulfills Sunday obligation 0815-1245 Nursery, Chapel Annex 1 Daily except Saturday, 1135, Blessed Sacrament

> CONFESSIONS 1115 to 1130 1615 to 1645 0800 to 0825

RELIGIOUS EDUCATION CLASSES Sunday Pre-school thru 11th grade 1000 Above classes are held in the Chapel Annexes across from the former Center Restaurant. 12th grade Sunday afternoon

As announced "In Home" Discussion Groups and Youth Rallies

Contact Chaplain's Office for specific JEWISH SERVICES EASTWING-ALL FAITH CHAPEL Sabbath Services every Friday UNITARIANS

CHAPEL ANNEX 95

Services—(Sept.-May)

Turtles, Loewen's B, Night Stalkers and Dispensary finished in first through fourth place with won-loss records of 12-0, 10-2, 7-5 and 6-6, respectively

over the Low Doze quintet.

in 8-mi. run staged by Over-Hill Track Club Seventy-eight distance runners from over the OTHTC's top team of Jerry and Mike Mumford.

> The OTHTC will sponsor a five mile run and a concurrent two mile run on Saturday, March 10. Signups will be at 8 a.m. with the races scheduled to begin at 9. Persons desiring further information are asked to contact Scotty Broyles by calling 446-2941.

#### Soccer Club suffers tirst shutout, 5-0, to Lancaster United

The first shutout in the 41/2 years of its existence was suffered by the China Lake Soccer Club at the hands (or feet) of the United Club of Lancaster United during a match played last Sunday in Lancaster.

A sieve-like defense on the part of the China Lakers permitted their opponents to score three easy goals in the first half of this game. The China Lake team put on a better defensive show in the second half, and both goals scored by the Lancaster soccer players were well earned.

Klaus Schadow got off a kick that bounced off the right goalpost of the Lancaster team, but that was as close as the local team could

The local soccer team, which has a fall and winter season record of 2 wins, 6 losses and 2 ties, has been short of a full squad on several occasions, and would welcome a few more players who want to learn how to play the game of soccer.

Team workouts will move next week to Davidove Field and be held on Tuesdays and Fridays, starting at 5 p.m.

#### Signups for Pony, Colt League start tomorrow

Signups for the China Lake Pony and Colt Leagues will be held from 9 a.m. to 12 noon at the Pony League Field, located between Murray Junior High School and the bowling alley at the Naval Weapons Center on Saturday, March 3, 10 and 17.

To be eligible, boys and girls must be 13 to 14 years of age for the Pony League and 15 to 18 years old for the Colt League. Proof of age must be shown at the time of

A voluntary donation of \$20 per single player or \$30 per family is requested. The money will be used to offset the cost of uniforms and equipment.



PATENT AWARD CEREMONY HELD - R. A. Boot (at left), head of the NWC Fuze and Sensors Department, officiated at a recent ceremony during which patent awards were presented to employees in his department. The recipients who were able to be present for the photo are (I.-r.) Larry F. Brauer, Robert T. Hintz, C. Kent Bullock and Joe A. McKenzie. Brauer, a mechanical engineer in Code 33's Special Projects Branch, teamed up with Jefferson O. Eaton (not present for photo) to earn an initial patent award for developing a pressure probe for a safetyarming device. Eaton is a mechanical engineer in the Sea-Launched Weapons Fuze Branch. Bullock and Hintz (both physicists) and McKenzie, an electronics engineer, are all employed in the Fuze and Sensors Department's Systems Studies Branch. They were co-recipients of an initial patent award for a remotely actuated portable FLIR beacon which substantially improves and modifies the manually pointed portable FLIR beacon. The system provides identification and the precise location of friendly ground forces at distances in excess of 10 kilometers under conditions of reduced visibility. The same three men — Bullock, Hintz and McKenzie — along with Roy Nichols, head of the Systems Study Branch (not present for photo), also shared in an initial patent award for an infrared beacon offset strike system which allows the precise weapon delivery of conventional ordnance from FLIR-equipped attack aircraft. This system will operate both day and night, and in conditions of reduced visibility.

### Burros' winning streak ends.

(Continued from Page 6)

Mike Wirtz and Richi Drake, with 13 and 9 points, respectively, led the Burroughs High scoring attack in the first half.

The halftime intermission took some of the steam out of the Burros, while the Knights from Arroyo High began to find the range in the third period during which they had a 17-9 scoring advantage and reduced the BHS lead to 49-35.

This same trend continued until the final 3 min. of the fourth quarter. By this time, the Knights had succeeded in cutting the Burros' lead to 10 points on three different occasions, and the game was far from the runaway which it had started out to be.

Wirtz turned the tide once again in favor

mid-court. There was 2 min., 49 sec. showing on the scoreboard clock when his lay-up dropped through the net, and the Burros proceeded to run off 12 points as they built up a lead of 70-48. The best that the visitors could do was cash in on one out of three chances at the free throw line making the final score 70-49 in favor of Burroughs.

Wirtz was the game's high point man with 18 field goals and 5 free throws for a total of 23 for Burroughs, while Drake and Ron Garrett pitched in 17 and 10 points. Pat Sarabia was the leading scorer for Arroyo High with 17.

In field goal shooting, the Burros had an edge of 25 to 18 over the Knights and scored on 20 out of 30 attempts from the free throw of Burroughs with a drive to the basket from line, compared to 13 of 18 for Arroyo.

# **Promotional Opportunities**

Systems Department, Incumbent types technical data, etters, and memoranda, frequently from handwritten drafts; receives and refers telephone callers and visitors; writes intra-Center memoranda and letters of transmittal; processes both incoming and outgoing mail; maintains iles; serves as custodian for classified branch material. Job Relevant Criteria: Ability to operate IBM Mag Card skill in interpersonal relationships; ability to perform a wide variety of clerical / secretarial functions (filing, mail municate correctly and concisely in writing

File applications for the above with Mary Morrison, Bldg. 34, Rm. 212, Ph. 2393. Clerk-Typist, GS-322-3/4, or Medical Records Technician, or Medical Clerk, GS-675-4/5, PD No. 7894008N, Code 941 — This position is located in the Naval Regional Medical Center, China Lake. The incumbent maintains Sick in Quarters Register and all other records/ reports such as accident, spouse abuse and outpatient morbidity. Fills out, reviews and mails out various form such as third party liability, NAVJAG injury reports, marriage certificates, and statements of civilian medical care. Coordinates obstetrical care billing. Maintains medical archives including records retirement functions. Coordinates with NRMC Long Beach Collection Agent the necessary billing and collection of fees for duplication of records, reports, messages and letter replies to gueries which require time consuming searches of records. Determines when such requests are proper and whether information should be released. Incumbent transcribes physician's office notes and correspondence. Job Relevant Criteria: Familiarity with medical terminology knowledge of a variety of BUMED and other appropriate procedures; ability to type with speed and accuracy; ability to deal effectively with people in all levels of

File applications for the above with Tina Rockdale. Bldg. 34, Rm. 206, Ph. 2723.

Clerk (Typing), GS-301-3/4, PD No. 7939018N, Code 39023 - This position is located in the Weapons Depart ment office. Incumbent provides a variety of services such as secretarial / clerical support as needed throughout the

outgoing mail and messages; maintaining files; assisting in the custody control function. Job Relevant Criteria: Familiarity with security and postal regulations regarding classified documents; familiarity with NWC organization; ability to work in a variety of situations; ability to organize

Accounting Technician, GS-525-5 / 6, PD No. 7708084N, and Management. Incumbent reviews all incoming cor tracts and amendments; maintains and reconciles the accounts records; certifies vouchers for payment; examines the weekly Document Entry System (DES) accrual subsidiary for irregularities; processes accrual accounting entries for unique NWC projects; validates historical costs and transactions and has regular contact with NWC project and budget personnel. Job Relevant Criteria: Knowledge of Document Entry System; knowledge of NWC accounting systems, policies and procedures; analytical ability and judgment and ability to interface effectively with others.

Supv. Electronic Engineer / Physicist / General eer./ Mechanical Engineer, GS-801/802/855/1310, 12 / 13, PD No. 7939019, Code 3944 - This position is for the head, Electronics Branch, Electro-Optics Division, Weapons Department. The incumbent manages and provides technical direction from design, analysis and testing of infrared and electro-optical missile seekers, integration of seekers into missile systems, system test and evaluation, and advanced EO/IR technology development. Incumbent also performs theoretical studies and analyses of proposed modifications on new system / subsystem concepts such as the design and implementation of infrared and EO counteruntermeasures. Job Relevant Criteria: Experience in design, analysis and test of tactical missile systems/ subsystems; experience in infra-red or EO seeker or sensor design is preferred; experience in planning and technically directing the work of others which demonstrates potential for supervisory position. Previous applicants need not reapply.

Clerk Typist, GS-322-4, or Communications Clerk, GSposition is located in the Telephone Branch, Com-munications Division, Military Administration Depart-Bidg. 34, Rm. 206, Ph. 2676.

telephone / radio / circuit records; reviews and verifies radio contract; updates and corrects cable books, operates PABX switchboard and IBM-OS6 equipment. Job Relevant Criteria: Clerk-typist, GS-322-4: ability to type rapidly and accurately; knowledge of MAG II typewriter operation; ability to file. Communication Clerk, GS-394-4: of telephone procedures; equipment ide printouts; ability to operate PABX switchboard; ability to

Budget Analyst, GS-560-5 / 7, PD No. 7808080 / 7708037, Code 0832 - This position is located in RMA Branch A. Budget Division, Office of Finance and Management. The incumbent provides services to one or more operating departments, including guidance of financial staff. In cumbent is responsible for all phases of budget execution. formulation, control and monitoring of direct, overhead, and capital budgets. Analyzes manpower vs. funding and workload, identifies financial problems and recomm colutions, and is responsible for identifying system errors and inaccuracies. Job Relevant Criteria: Ability to gather and analyze raw financial data; ability to communicate effectively, both orally and in writing; ability to work rapidly and accurately with names, numbers, codes and symbols; ability to meet deadlines under pressure. motion potential to GS-11. Previous applicants need not reapply. Status eligibles accepted

Accounting Technician, GS-525-3/4, PD No. 608003, Code 0862 — Position is located in the Cost Accounting Branch of the Office of Finance and Management. The incumbent is a trainee in the Cost Accounting Branch performing tasks on a rotating basis within one of the three sections. Major contracts, government orders and F / C, and commercial orders. He / she codes and processes purchase documents, files and maintains files of paid documents, posts entries on reconcilliation sheets, and assists in monitoring control log of transactions. Job Relevant Criteria: Ability to work with figures; ability to perform routine clerical duties; ability attention to detail. Promotion potential to GS-5 (accounting technician). Status eligibles accepted.

File applications for the above with Tina Rockdale

### The Rocketeer Official Weekly Publication

**Naval Weapons Center** China Lake, California Rear Admiral William L. Harris **NWC Commander** R. M. Hillyer

> Technical Director Dr. Robert H. Pearson

Technical Information Department Don R. Yockey

> **Ernest Sutton** Associate Editor

**Beverly Becksvoort Editorial Assistant** Ron Allen Staff Photographer



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Office of the Commander, Code 003.



without the parking brake set and the

vehicle placed in gear. In such instances as

the latter, the vehicle began to roll and an

During 1978, 69 persons were arrested for

driving while under the influence of alcohol

or drugs, compared to 65 persons arrested

in 1977. Some of these individuals were

involved in the accidents mentioned above.

this new year and make an extra effort to

stay alert and to check for hazards and

driving problems in order to avoid ac-

cidents. Let's learn from the mistakes of

others. Traffic accidents don't have to

The Public Works Department's Trans-

portation Division announced this week

that effective Monday, March 5, the mor-

ning work run bus for enlisted military

personnel on duty at Armitage field will

arrive at the Enlisted Dining Facility at

The bus will also make one stop enroute at

the share-a-ride station at the corner of

Lauritsen Rd. and Blandy Ave. This change

is in response to a request made by the

that Department of Defense regulations

Personnel who use the bus are reminded

6:45 a.m. and depart at 7:05 a.m.

Blandy Ave. stop

added to morning

air field bus run

All Centerites are urged to be concerned

Tuesday, 11:30 a.m

**Recreation Roundup** 

### **Preparations for** volleyball league play now underway

Preparations for the spring season of intramural league volleyball competition are currently underway, with the league season scheduled to begin some time around March 20.

A clinic for prospective players interested in learning more about the fundamentals of the game was held last Wednesday night, and a meeting for the purpose of discussing the rules of the game and officiating is scheduled next Wednesday, March 7, from 7 to 9 p.m. at the Center gym.

Plans call for setting up separate divisions for men's Class A and B teams, coed Class A and B teams, and teams for women only.

#### Water Safety Class

Registration is now being taken at the Center gym office for a combined water safety and advanced lifesaving class that will meet on Mondays and Wednesdays from March 5 through 21.

The class sessions on Mondays will be held from 6:30 to 8:30 p.m., while those on Wednesdays are slated from 9 a.m. to 12 noon. The instructor is Elaine Mikkelsen.

Persons interested in enrolling must be at least 15 years old and be able to pass a swimming test that will be given at the first

The class size will be limited to 20 students, and there is a small charge (Continued on Page 7)

#### Girl gymnast does well in State Class Il meet in Redlands

Betsy Babcock of Ridgecrest barely missed placing in two of the four events in which she was entered, as well as in the allaround competition last Saturday during the United States Gymnastics Federation's California State Class II gymnastics meet held in Redlands.

Miss Babcock, who represented the City of Ridgecrest's Hi-Desert Tumbleweeds, qualified for the state meet by virtue of high scores at the zone and district level. Her scores last Saturday of 8.2 in floor exercise and 8.0 on the balance beam earned her a seventh-place standing in each of these two events for the Senior Division compulsoryonly competition.

Miss Babcock's other scores were 7.15 on the uneven parallel bars and 7.25 in vaulting, for a 30.80 all-around total.

Her goal for the season of making a 9.0 in an individual event still eluded this Burroughs High School senior, who suffered two .5 deductions on the beam and one during the floor exercise event for slips and falls.

Undeterred by the conclusion of the Tumbleweed season, Miss Babcock is now competing on the Burroughs gymnastics team and is determined to achieve her goal.

The first meet of the 1979 season for the Burroughs High School girls' gym team, many of whose members have received most of their training through the City of Ridgecrest Recreation Department program, was held Wednesday night at Joshua Hall on the Desert Empire Fairgrounds. The Burros girls defeated their counterparts from Antelope Valley High School in Lancaster 142.4 to 125.05.

### Close loss to Cabrillo ends season for Burros cagers

ROCKETEER

The quest by the Burroughs High School's occasions after one of the BHS cagers had crowd, which included more than 100 fans boys' varsity basketball team for the Class 2A Southern Section basketball title was stymied during a hard-fought, 70-64, loss to Cabrillo High in a game played Tuesday night at the Lompoc High School gym in

The Cabrillo Conquistadores, the No. 1 ranked team in the CIF 2A Division, had posted a 22-point victory last Friday over Temple City to gain the second round of the CIF playoffs. That same night, the Burros, coached by Larry Bird, hung a 21-point defeat (70-49) on the Arrovo High School team from El Monte during a game played at the BHS gym.

On Tuesday night at Lompoc, the Burros had a low (for them) field goal shooting percentage in the first half. On several missed a shot at the basket, the Cabrillo team was able to hustle the ball quickly back down the court and ring up a 2-pointer before the Burros' defense was set up.

While the Conquistadores controlled the game in this fashion, they got off to a 19-14 first quarter lead which they extended to 10 points (40-30) at the half.

Following the mid-game intermission, the Burros went into what Coach Larry Bird calls "a combination defense" and began to control the tempo of the contest. As a result, they were able to reduce the Cabrillo lead to 59-54 at the end of the third period of play, and from that point on the final outcome of the game was up for grabs.

Excitement mounted among those in the jampacked Lompoc High School gym



WHO'S GOT IT? - Connie Reeder (No. 11) of NWC Blue battles for the ball with Kelvin Curry (dark uniform) of VX-5 during a hotly-contested, Admiral's Cup basketball tilt played on Thursday, Feb. 22, at the Center gym. NWC Blue won the game 67-66, thereby increasing its lead in the Admiral's Cup standings. Other NWC Blue players visible are Charlie Barrows (No. 15), Andy Price (No. 31) and Jim

### All-military team, The Pride, wins post season intramural basketball tourney

elimination tournament between the three best teams in Division A of the China Lake Intramural Basketball League were won gym for the "mythical" championship in Andy Price, and 11 by Jim Carr. last week by The Pride, an all-military Division B of the China Lake Intramural

In the tourney title tilt, The Pride had to stave off a second half rally by the Time Out hoopsters in order to win by a 2-point margin of 60-58. The Division A champs led 38-32 at the half.

Barry Adams scored 29 points for The Pride and a teammate, Connie Reeder, hit another 15. The Time Out cagers were led in the scoring department by Tim Cornelius, who had 28 points, and Chuck Barrows with

In the Division A tourney opener, the Time Out squad registered a 66-56 win over Desert Motors. The game was close, 35-33 in favor of Time Out at the half, but the Desert Motors cagers couldn't match their opponents on offense in the latter stages of the

Cornelius scored 26 points, and Garry Clark and Bob Bailey added 14 and 10 points, respectively, for the Time Out team. Leading scorers for Desert Motors were

Phil Bowen (13) and Terry Mangrum (11). In regular season play, these same three Division A teams placed first second and third. Their won-loss records were The

Pride, 9-2; Time Out, 7-5, and Desert

Three teams vied last week at the Center unbeaten (12-0) in regular season play, shunned the post-season tourney for NWC Gold 77-61 in the first contest of the Division B teams, which was won by three-game Admiral's Cup basketball Loewen's B in the "title-decider" that was played against the Night Stalkers.

In this tilt, won 63-55 by the Loewen's B cagers, Garyl Smith (of Loewen's) was the game's high point man with 16, and three of his teammates - Rollin Jones, Fritz Artz. and Mel Foremaster - ended up in the double-figure scoring column with 11, 11 and 10 points, respectively.

The Night Stalkers, who trailed 30-25, at the half, were led in the scoring department by Danny Lopez (14) and Mark Lehman

In the first round of Division B tournament competition, the Night Stalkers edged the Dispensary squad, 40-38. Brad Domine chalked up 14 points for the Dispensary team, but his efforts coupled with those of a teammate, Bill Lindhart, who tallied 10, weren't quite enough to offset the better-balanced offense of the

(Continued on Page 7)

from the local area, who made the long trip to cheer on the Burros.

With 28 sec. showing on the scoreboard clock and the BHS cagers trailing 66-64, the Burros got the ball after a muffed free throw attempt by Cabrillo. A pass from Richi Drake to Mike Wirtz, forward, enabled the latter to get off a shot at the hoop which caught a little too much iron and just missed going in to tie the score.

After that York Gross, the game's high point man for Cabrillo with 37 points, was fouled and cashed in on two charity tosses and also hit a field goal to clinch the win, 70-64, for the Conquistadores.

In addition to York, a 6 ft., 5 in. forward, the Cabrillo team had two other players in the double-figure scoring column. They were guards Jeff Dalton and Tony Pickett, who tallied 18, and 10 points, respectively.

Leading scorers for Burroughs were Wirtz, 19, Steve Motte, 17, and Ron Garrett,

The Burros hit on 27 of 56 field goal tries, and cashed in on 10 of 16 shots at the free throw line, while their victorious opponents took 71 shots at the basket and made good on 31, and were 8 for 14 from the charity stripe. In the rebound department, the Conquistadores had the edge, 39 to 37.

In last Friday night's game against Arroyo High, the visitors, who finished the regular season in third place in the Mission Valley League, led briefly (2-1) in the opening minutes of the contest. They then fell far behind as the Burros rattled off eight unanswered field goals and raced to a 19-2 lead in the first 41/2 min. of the game.

The BHS varsity hoopsters led 23-8 at the end of the first quarter and continued to dominate their opponents in the second period. Cheered on by a crowd of some 1,000 fans jammed into the local high school gym, the Burros left the court at halftime with their biggest lead of the game, 40-18.

(Continued on Page 7)

### **NWC Blue team** wins Admiral's Cup basketball event

A basketball team representing NWC Blue (the Aircraft Support Division in Code 61), was pushed to the limit by its counterparts from VX-5 in last week's Admiral's Cup athletic competition

At the conclusion of a nip-and-tuck battle that went right down to the wire, the NWC Blue cagers emerged with a 67-66 win over the hoopsters from VX-5.

Barry Adams, of the VX-5 Vampires, was the game's high point man with 24, and teammate, Mark Lehman, tallied 11 points.

The NWC Blue team, which led, 33-31, at halftime, had a more balanced scoring attack, however, getting 17 points from Connie Reeder, 14 each by Ron Johnson and

The stage was set for the showdown on asketball game. The Turtles, who were Thursday night, Feb. 22, between NWC Blu and VX-5 after the VX-5 cagers defeated series. NWC Gold (unable to get enough players together) had forfeited to NWC Blue

on the second night of play. The game between VX-5 and NWC Gold was tied 30-30 at the half, but the difference was Barry Adams, who arrived in time to play the second half of the game and tallie. 20 points to lead the Vampires to a 77-61

The top scorer in this contest was Rick Ashby of VX-5, who had 22 points, while Tim Cornelius was the leading point-maker for NWC Gold with 17 and David Woods tallied

The VX-5 Vampires outran the NWC Gold cagers in the second half of their game. Tony Bolden helped out by stealing the ball on the outside, and Adams worked his way inside to score the points that turned the ball game in favor of the VX-5 squad.

Current point standings in the Admiral's Cup competition are NWC Blue, 30; VX-5, 22; and NWC Gold, 20.



CLIMAX TO NAT'L ENGINEERS' WEEK — A field trip to the Coso geothermal area concluded the local observance of National Engineers' Week last Saturday. During the outing, Dr. Whelan (in foreground), head of the Geothermal Technology Branch in the NWC Public Works Department, provided information to the 55 field trip participants about the geothermal energy test program. At right are the various valves at the capped off Coso exploratory drill hole No. 1 which extends 4,824 ft. beneath the earth's surface. This exploratory drilling work has been done approximately two miles from the old Coso Hot Springs resort.

The consumption of energy is a vital civilian employees and military personnel

factor in performing the mission of the are asked to carry out the following energy

Naval Weapons Center; however, the cost

of energy is increasing at a much faster rate

than is the annual operating budget. Energy

costs directly reflect on the overhead rates

In view of this, a vigorous and effective

minimize the impact of high energy costs on

Here at the Naval Weapons Center, all

employees and military personnel are

asked to voluntarily contribute their utmost

to a reduction in energy consumption. This

but also to their dependents who occupy

Throughout the heating season (October

through April), all Centerites are asked to

make sure that thermostats remain set at

between 65 and 68 degrees during working

hours in offices and laboratories. After

working hours, thermostats are to be set

back to 55 degrees, which is where ther-

mostats are to remain around the clock in

warehouses and storage areas during the

heating season. This is a Department of

through September), temperatures in

buildings are to be no lower than 78 degrees

unless specifically authorized by the

In order to facilitate the above, a contract

has been awarded and work is under way on

the installation of manual timeclocks in

nearly 90 buildings on the Center. These

timeclocks will automatically set back

thermostats after working hours and

change them to a pre-determined setting in

the mornings. These settings vary depen-

In order to reduce energy usage, all NWC

(Continued from Page 1)

supplies and materials (including aviation

supplies), and maintaining the proper

controls to insure a smooth operation from

the time an item is ordered until it is

The roster of Navy Supply Corps per-

ding upon the season the year.

Supply Corps . . .

delivered to the user.

Throughout the cooling sea

charged to Center projects.

the mission of the Center.

housing at China Lake.

Defense requirement.

Command.

# Colonizing planets in space seen as answer to survival of mankind

The future survival of mankind may lie in planet or planets in space. colonizing a new planet or planets in the stellar system, according to William J. mechanisms for their survival, and humans Sauber, guest speaker at the National Engineers' Week banquet which was held on Feb. 22 at the Commissioned Officers'

ROCKETEER

Sauber, who is a distinguished lecturer for the American Institute of Aeronautics and Astronautics and a long-time engineer and employee of the Dow Chemical Co., is the author of a book entitled "The Fourth Kingdom" in which he expands on this

The fruits of the human mind - the products of modern day technology in particular - are the "fourth kingdom" to which Sauber is referring in his book and also had reference to during the talk (illustrated by film slides) that he presented at the banquet which highlighted the local observance of National Engineers' Week, Feb. 18 through 24.

New scientific evidence, the speaker said, indicates that the sun is far less constant than previously was believed to be the case. behalf of the High Desert Engineering Measurements reveal that the core of the sun is being considerably dampened.

In view of this, it is Sauber's contention that mankind must draw on "The Fourth Kingdom," the fruits of human endeavor, for survival. What is needed, he continued, is a national and worldwide commitment to send a large number of "space arks" to distant suns in order to colonize a new

time, the Center is looking at several long-

range methods of accomplishing this goal.

These include the use of alternate energy

resources - solar energy for heating and

In conclusion, all Centerites should be

aware of this growing problem and are

urged to use common sense in helping to

reduce energy consumption wherever

cooling, and possibly production of elec-

tricity by solar and geothermal energy.

Animal and plant species have developed

must do the same, Sauber believes. He sees such trips into space (initially by a few hundred brave colonists) as a stimulus to industry, technology and social systems and, consequently, of benefit to all

By utilizing the ingenuity of the human mind, the capability to "seed the universe" and thereby insure mankind's survival can be developed, Sauber said in expanding on the theme of this book entitled "The Fourth

Master of ceremonies for the banquet was William Werback, head of the NWC Engineering Department's Environmental Engineering Branch, and guests of honor were Rear Admiral William Harris, NWC Commander, and Mrs. Harris, and Don Chieze, Mayor of Ridgecrest, and Mrs.

Singled out for their contributions on Association to the plans for this local observance of National Engineers' Week were Jim Serpanos, of the American Institute of Aeronautics and Astronautics; Bruce Bartels, of the California Society of Professional Engineers: John Cox, of the American Society of Civil Engineers; Bill Webster, of the Institute of Electrical and Electronics Engineers; and Tony Miller, of the American Society for Quality Control.

# NWC to pursue vigorous energy conservation program

conservations measures: 1. Turn out lights when leaving an office. 2. Eliminate the use of electric space heaters if there is any other form of heating available in a building or office.

3. Turn off all electrically-operated energy conservation program is essential to equipment when not in use. This includes such things as typewriters, soldering irons, and machine tools. In addition, all excess

#### refrigerators should be eliminated. Rental rates to go up on April 1 for request applies not only to those at work, China Lake civilians

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

This latest increase, which is attributable to the spiraling climb in various utility rates and fuel costs that have occurred in recent years, will result in an average increase in utility charges of approximately 25 percent over current charges.

The new utility rates are comparable to those now being paid by residents of nearby

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

At the time the annual adjustment in civilian shelter charges for 1979 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 (CPI) over the past three years, an increase in utility rates for Center housing would be

The current rate schedule (excluding any change to reflect higher utility rate costs) was increased on Feb. 1, 1979 by 7 percent, compared to the 1978 rate.

In accordance with the Housing Administration Manual, charges for utilities also must be adjusted yearly based upon the sonnel on the Center lists six officers, four CPI, or if for any reason valid and realistic chief petty officers and 24 enlisted per- comparability with private utility rates has not been established.

#### Navy League meets Plans call for examining many Center March 8 at Hideaway functions in order to see where energy consumption can be reduced. At the same

Ridgecrest Chief of Police Robert Norman will be the guest speaker at the monthly meeting of the Indian Wells Valley Council of the Navy League on Thursday, March 8, at the Hideaway restaurant in

Chief Norman assumed the duties of chief of police in Ridgecrest in November 1978.

The Navy League meeting will start with a social hour at 6:30 p.m. and a rock Cornish hen dinner will be served at 7:30.

#### New rental rates effective April \$112.20 \$ 489.00 416.40 118.50 132.90 397.80 102.00 433.50 416.40 378.90 Panamint (3) ......269.10 363.00 93.90 JOQ (Rear Terrace) (3)......279.60 375.30

JOQ (Front Terrace (3).......262.20 92.40 354.60 351.60 JOQ (Front Terrace) 1 Bath (3)......259.20 JOQ (Rear Terrace) (2)......225.30 303.90 76.50 287.10 360.30 MOQ (3).... 329.70 80.10 291.90 336.30 109.80 Wasp Circle (3)......226.50 338.40 89.10 335.10 319.50 Tamarisk (4) (Convertible)......234.30 85.20 317.40 318.00 Normac Duplex (3)......219.60 98.40 270.90 78.60 Normac Duplex (2)......192.30 291.90 Old Duplex (2) (Dining Addition) . . . . . . . . . . . . . 196.20 273.00 76.80 73.50 242.70 Normac (4)......248.70 134.40 383.10 Normac (3)......176.10 90.00 266.10 223.50 Normac (2)......152.40 71.10 179.10 Normac (1).....121.20 226.80 LeTourneau (2)......152.40 166.20 42.00 112.50 Motel Apartment (0) . . . . . . . . . . . . . . . . . . 75.90 36.60 226.20 72.60 151.20 43.50 Card Street Apartment (2) . . . . . . . . . . . . . . . . . . 163.20 65.10 228.30 87.00 Dormitory Single with Private Bath . . . . . . . . . 24.90 110.40 94.80 24.90 Single with Semi-Private Bath . . . 79.20 Double with Semi-Private Bath. 57.30 21.90 35.40 152.10



NWC PLAQUE PRESENTED - Rear Admiral L. S. Kollmorgen, Director of the Systems Analysis Division in the Office of the Chief of Naval Operations, received an NWC plaque as a memento of his recent visit to China Lake. The presentation was made by Capt. F. H. M. Kinley, NWC Vice Commander, prior to a series of briefings which RAdm. Kollmorgen received on Weapons Planning Group programs and projects, and reviews of tactical software programs, air-to-air and air-to-surface weapons programs.

# Airman Sunty Laguitan singled out as NWC's Sailor of Month

Airman Sunty E. Laguitan, of the Aircraft capable and worthy of representing the Department's Ground Support Equipment Naval Weapons Center as Sailor of the (GSE) Branch, has been selected as the Month," LCdr. Pike stated. Naval Weapons Center Sailor of the Month

ROCKETEER

In recommending him for the award, ferred here from aviation ground support LCdr. G. A. Pike, GSE Branch officer, said AN Laguitan is a diligent person who invariably continues to work on an assigned task until every significant detail has been given thorough attention.

LCdr. Pike said: "He welcomes responsibility and continually seeks to broaden his field of knowledge thus increasing his value to the Navy and himself. With a progressive viewpoint and sound judgment, his analysis of problems and his choice of methods for accomplishing desired results are exceptional."

The recommendation went on to say that AN Laguitan possesses great initiative and requires an absolute minimum of supervision. "His cheerful attitude, devotion to duty, loyalty to seniors and contemporaries, and a well-disciplined military bearing, combine to make him the type of individual

AN Laguitan has been stationed at China Lake since April 1978, when he was trans-"A" school at the Naval Aviation Technical Training Command in Memphis, Tenn. He was graduated from St. Louis Boys High School in Olongapo City, Zambales,

Soldering experts

hold 3rd annual

seminar at NWC

More than 320 middle and upper

management personnel representing in-

dustry or government agencies — one from

as far away as Denmark - attended the

Naval Weapons Center's third annual

Soldering Technology Seminar which was

held on Thursday and Friday of last week.

trical electronic equipment fabrication

and assembly covered a variety of subjects

during seminar sessions held at the Center

Topics discussed ranged from plating,

solder coating and automatic soldering to

cleaning requirements and static

According to Jim Raby, head of NWC

Engineering Department's Soldering

Technology Branch, last week's seminar

will serve as a catalyst to enhance the ex-

change of information between government

and industry, thereby encouraging ad-

vancement in the state-of-the-art. The end

result, Raby feels, will be a better quality

Raby expects as many as 50 papers to be

submitted for the 1980 Soldering Technology

Seminar from which about 10 will be chosen

Signups being taken

for presentation.

a.m. to 4 p.m.

discharges and their effects on parts.

Experts in the field of elec-

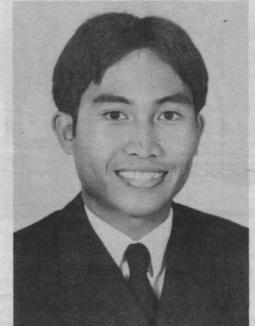
CLEANLINESS DISCUSSED - Ralph Hersey (left) of Lawrence Livermore Labs,

and Skip Livingstone of Litton Systems, discuss cleanliness testing and equipment

during a tour of NWC's Soldering Technology Branch laboratory last week. During

....

March 2, 1979



AN Sunty E. Laguitan

Philippines, in April 1974. Afterwards he took a two year course in electronics before entering the Navy in October 1977 at Subic Bay, Philippines.

NWC's new Sailor of the Month is single. He says his favorite past-times are playing table tennis, pool, or basketball.

As a result of his selection as Sailor of the Month, AN Laguitan will get an NWC plaque, a letter will be put in his service jacket denoting his selection, and he will receive a free dinner for two at the Enlisted

### Trout fishing begins tomorrow in nearby **Inyo County waters**

oduct that also will be more cost efrective. With three such seminars now history, plans are in progress for the fourth 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

Among the open waters are such popular streams as Independence Creek, Symmes Creek, Shepherds Creek, Lone Pine Creek, Tuttle Creek, lower Cottonwood Creek and Olancha Creek

> for pool tournament t Community Center Registrations are being taken from military and civilian personnel at the Naval

> > March 7. An entry fee of \$1 will be charged each player. The tourney will be a double elimination

Participants must sign up for the 8-ball

event and appropriate prizes will be given

For more information, prospective pool players are asked to call NWC Ext. 2010 or with nomination forms. Persons interested visit the Community Center.

Dr. Lowell Wilkins honored.

United States' leading authorities in signature measurements, made him a valuable asset to the Navy during this assignment. Together with representatives of the Army and Air Force, he helped work out a unified Tri-Service Program plan for tactical missile infrared/ultra-violet signatures. The purpose of this plan was to standardize measurements and modeling efforts, as well as the design and characterization of tactical missile signatures, and provide the overall direction necessary to meet this goal. Dr. Wilkins took the lead in providing necessary data on atmospheric transmission in a marine environment by

establishing a fully instrumented test complex at San Nicholas Island - near the Pacific Missile Test Center (PMTC), Point The complex consists of several instrumentation sites, as well as a system of semi-automatic meteorology equipment designed to provide data on the marine

environment necessary for Navy search set operations. This simulated ship environment is a one-of-a-kind facility available for Navy-wide use.

least seven contractors and three government laboratories whose personnel are involved in making measurements of various airborne targets during flights scheduled from the Naval Air Station at Miramar, from PMTC and NWC. The latest recipient of the Technical

Director Award has been employed at China Lake since he was graduated in June 1961 with a bachelor of science degree in physics from Brigham Young University in Provo.

Worked on Sidewinder Optics

He began working here on Sidewinder missile optics and has been associated with his present department or its predecessors for the past 171/2 years. During this time he has had the opportunity, under the NWC long-term training program, to obtain a master's degree in physics at the University of Idaho, and a Ph.D degree (also in physics) at the University of Texas in

His doctoral dissertation pertained to the accoustical simulation of the ocean environment, which tied in directly with his work as the Optical Signatures Program manager in the NWC Weapons Department.

Dr. Wilkins is called on frequently to provide distinguished visitors to China Lake with briefings in the area of electro-optical signatures and, more recently, on air-tosurface imaging infrared seekers.

Prior to assuming his present duties as head of the Imaging Infrared Office in Code 39. Dr. Wilkins was head of the Electrooptical Signatures Branch (Code 3943) and also was head of the former Infrared Measurements Branch (Code 5143) in the old Air Weapons Department.

### College schedules panel discussion on effects of alcohol

The Council on Alcohol Awareness is sponsoring a panel of speakers who will discuss the effects of alcoholism on family members, homelife, jobs, schooling, and friends on Wednesday, March 7, from 7 to 9 p.m., at the Cerro Coso Community College lecture center.

On the panel will be Dorothy Carlo, director of the Council on Alcohol Awareness in Ridgecrest, who will tell about the resources available in the local area; and Joanne and Dean Rice, and Eileen Baird, who will talk about their personal insights on the problem of

Alcoholism is a chronic, progressive, and potentially fatal disease that affects 1 out of 10 adults in the United States. The nation's 10 million alcoholics affect at least four other family members and more than 16 friends and business associations with their

Alcoholism is a family problem which has an adverse effect on family stability, unity, pocketbook.

For further information on the panel discussion, interested persons can contact Ms. Carlo by calling 375-2271.

#### Immunization clinic attend should contact their department to be held Monday

A Kern County Health Department immunization clinic at which infants 2 months of age and older through young people 17 years of age can obtain shots to protect them against common childhood diseases will be held on Monday, March 5, from 1 to 3 p.m. at the old county building, 230 W. Ridgecrest Blvd.

This Health Department clinic is open to the public and no appointments are necessary. Shots that will help to prevent DPT, polio, measles and mumps are offered free of charge, but parents or legal guardians must accompany children to the clinic and sign consent slips.

A similar clinic has been scheduled on Monday, March 12, starting at 9 a.m., also

# Update on geothermal development . . .

(Continued from Page 1)

Included in this series of films was footage shot of the vertical launch of an anti-submarine weapon, firings of HARM (high speed anti-radiation missile) and Walleye, and in-flight tests of the Sparrow and Sidewinder air-to-air missiles.

Next, Capt. Kinley touched on the economic and financial health of China Lake and the Indian Wells Valley. The Center, he observed, is a vital stabilizing factor in the economic growth and development of the local area. By next July, it was added, relocation of the National Parachute Test Range from El Centro, Calif., will add 110 civilian and 71 military personnel to the NWC workforce.

Contribution to Economy

The presence of a population of nearly 25,000 persons in the Indian Wells Valley, composed of NWC employees and their families and military and contractor personnel and their dependents, indirectly makes a significant contribution, as well, to the economy of Inyo County, Capt. Kinley stated during his talk at the Lone Pine Chamber of Commerce meeting.

"Center employees, military personnel and their dependents take full advantage of the varied recreational opportunities offered by Inyo County, and a growing number of former Center employees have made their retirement homes in Inyo County," the speaker said.

Capt. Kinley concluded his part in the Lone Pine CoC installation dinner program by giving a report on the current status of what he called "one of the Center's most Capt. Kinley noted, "is the development of interesting projects - the development of NWC management controls for the geothermal energy in southern Inyo County.'

Studied for 20 Years

The possibility of geothermal power potential in the Coso area has been studied for about the past 20 years, Capt. Kinley said, and the first publication on this subject was written in 1963 by Dr. Carl Austin, who heads the Geothermal Utilization Division in the NWC Public Works Department.

NWC began evaluation of the Coso geothermal area in 1966 with the drilling of a shallow observation well. Since then, this 375 ft. deep well and four of the old resort wells at Coso Hot Springs have been used extensively for corrosion studies.

"Common construction materials have been studied to learn how to construct monitoring facilities at geothermal sites. Studies also were made of the effects of geothermal mists on sophisticated Navy electronics, avionics, and communications equipment," the NWC Vice Commander stated

cooperative study of the Coso geothermal and that the site was recommended by

established during the 1970s by the Department of the Interior and the Department of Energy, Capt. Kinley informed his listeners. The Navy also sponsored studies on the Coso area's geothermal possibilities that were conducted by various

"The data accumulated by these efforts has led to estimates that Coso is a major geothermal resource," the NWC Vice Commander reported. "Published estimates by scientists from outside the Navy predict a potential as high as 4,600 megawatts of electricity. To put this potential in perspective, that is enough electricity to take care of 4 million people. NWC's estimates of this potential have been more conservatively put at over 1,000 megawatts," he added.

While the Navy at China Lake is the landlord of one of the largest, potentially best, largely untested geothermal deposits in the western United States, the problem which the Center faces is how to achieve its test and evaluation mission and also allow this potential energy resource to go into production, Capt. Kinley said.

**Multiple Use Concept** 

A possible solution to this problem involving multiple use of the Coso geothermal area has been developed by the Navy. It is designed to permit both performance of the Navy's mission and geothermal develop-

"The key to this multiple use concept," hermal operations. These controls (which include approval of roads, drill sites and locations for power plants, as well as control of access to the area to protect Navy mission security) are expected to add only a minor cost when compared to the potential of the area," he explained.

"The Navy program envisions a private contractor hired by the Navy, investing private capital, and exploring and developing NWC lands. The contractor, not the Navy, would own the power plant and production facilities. The energy processed by the contractor would remain Navyowned, and the contractor would receive payment for the electricity delivered to the

"This development," Capt. Kinley continued, "is predicted to satisfy the Naval Weapon Center's electrical requirements, and has a potential of meeting the majority of the Navy's needs in southern California."

Reporting on the drilling work that has taken place in the Coso Known Geothermal The steady growth of interest in Area, the NWC Vice Commander stated geothermal power in the late 1960s led to a that the initial drilling was experimental

scientists from NWC, the U.S. Geological and similar research programs that were Service, and the University of Texas at Dallas - all of whom had been studying the Coso area for a number of years.

> Later, conventional drilling equipment was used at the same location and the result was a 4,824 ft. deep test well that is still undergoing tests and study, including the

> To date, temperatures have been recorded up to 389 degrees Fahrenheit which is commercially sound - and at least three zones were found that should produce fluids in commercial volumes," Capt.

> > **Added Complication**

"The addition of the Coso Hot Springs resort site to the National Register of Historical Landmarks has added complexities to the geothermal development," Capt. Kinley acknowledged. In view of this, NWC representatives are continuing to work with the Coso Ad Hoc Committee of the Owens Valley Indian community to provide greater access to the area by

"We expect to reach an agreement with the committee that will establish procedures and times for visits, and resolve liability issues," the NWC Vice Commander stated. "We are as concerned about properly safeguarding the environment as a result of this development as we have been about safeguarding wild life and cultural heritages," he stressed.

There are complex legal and institutional theless, Capt. Kinley stated at the close of his talk, all indicators point toward a continuation of the cooperation between federal, state and local agencies, and various citizens' groups which are involved, and the successful resolution of the various problems that exist regarding the utilization of this geothermal resource of potential national importance.

logging of temperatures.

"This year, NWC expects to award a contract for geothermal development of Navy land. Follow-on construction of pipelines and power plants should lead to production of electricity within five years," he stated. The Bureau of Land Management will begin leasing the rest of the resource area in 1981, it was added.

problems associated with the geothermal development in the Coso area. Never-

Southwestern Inyo County waters will open for fishing tomorrow nearly two months ahead of the general trout season in the Eastern Sierra, the Department of Fish and Game reminded anglers earlier this

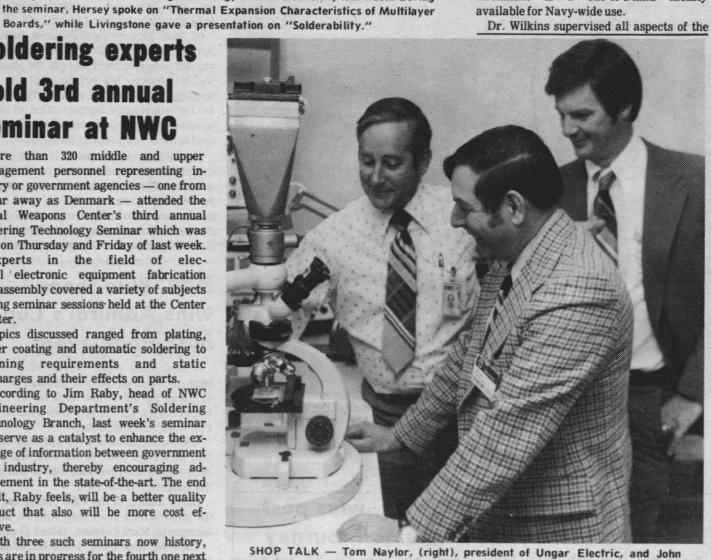
Under new regulations adopted by the State Fish and Game Commission last December, all Southwestern Inyo County waters bounded by the Inyo County line on the south and west, Independence Creek on the north and Highway 395 on the east are included in the special season which runs from the first Saturday in March through

The bag limit will be 10 trout but not more than 10 lb. and one fish. Diaz Lake, three miles south of Lone Pine just west of Highway 395, is in the southwestern Inyo County area. It opened for trout fishing on March 1.

By Commission action, Lake Diaz will be open for trout fishing all year, however planting will only be done according to water temperatures set by fishery biologists.

# CONSERVENERGY

ENERGY HOT TIP — Weather stripping around doors and windows can be one of our best energy conservation investments. A 25 mph. cold wind blowing against the walls of your home can build up a pressure differential of .4 inch gauge between the inside and outside. This results in a loss of 150 cu. ft. per minute of warm air through a five ft. long, 1/8 inch crack surrounding exterior doors and windows in your home.



DeVore, head metallurgist for General Electric, two of the participants in the Soldering Technology Seminar held at China Lake last week, discuss the microscopic investigation of soldering defects, such as cracks, dewetting of solder, and amounts of copper with Jim Raby (left), head of NWC's Soldering Technology Photos by Ron Allen

#### NWC Personnel Dept. seeks applicants for leadership assessment, development course The Personnel Department (Code 09) has assessors or in nominating a subordinate to

established an in-house leadership assessment and development program to aid in the development of potential and actual first-level supervisors at the GS-12 level and above.

Assessment Development Program will Weapons Center for a pool tournament to be be held April 1-6 at Rio Brayo Lodge in held in the Community Center's Panamint Bakersfield. pool hall on March 10, 17, and 24, from 9 Two days are spent by participants in mangerial-related activities with the

The next session of the Leadership

remainder of the week being devoted to tournament no later than Wednesday, other career development activities. The purpose of the program is to provide a career report containing accurate information about the participant's activities,

interests, and performances in a managerial setting. Code 09 has provided department offices

in attending as participants or staff Mondays.

The deadline for nominations for the program is today. Additional information may be obtained by calling Terry Mitchell at NWC Ext. 2648.

More hours in day for local hobbyists

The Special Services Hobby Shop at the Naval Weapons Center has increased its hours of operation by 21/2 half hours on weekdays and by 30 min. on Saturdays.

The Hobby Shop is now open from 11:30 a.m. to 9:30 p.m., Tuesday through Friday, and from 9 a.m. to 5 p.m. on Saturdays. Previously it had been open from 2 to 9:30 p.m. on weekdays and from 9:30 to 5 on Saturdays. The Hobby Shop is closed on