



TOPFLIGHT INSTRUMENTAL GROUP — The Westwood Wind Quintet will perform Monday night at the Center theater. Members of this popular group, and the instruments they play, are (l.-r.) Peter Christ, oboe; John Barcellona, flute; Calvin Smith, French horn; Kenneth Meyer, bassoon; and David Atkins, clarinet.

Noted woodwind gp. to present concert Mon. night at theater

The Westwood Wind Quintet, one of the world's leading woodwind groups, will present a program ranging from an 18th century classical selection "Serenade" by W. A. Mozart to "Summer Music" by Samuel Barber, one of the best-known of present-day American composers, on Monday evening at the Center theater.

Curtain time is 7:30 p.m. for this the fifth concert of the 1981-82 season to be presented by the Indian Wells Valley Concert Association.

Now in its 23rd year of existence, the Westwood Wind Quintet has won wide acclaim for its thousands of concert performances throughout the United States.

The ensemble has made nine recordings, all of which have won rave reviews, and the group has been much in demand for radio and television appearances, in addition to participating in numerous workshops and music festivals.

General admission tickets to Monday night's concert are on sale locally at the Music Man, the Gift Mart, Medical Arts Pharmacy, the Center Pharmacy, McNeil's Fashions, and at the Maturango Museum. If

Arrangements to purchase these tickets can be made by calling the IWV Concert Association's 24-hour line, phone 375-5600.

Special event car passes will be issued Monday night at the NWC main gate to concert-goers who need them to get on board the Naval Weapons Center.

As an added bonus, the Westwood Wind Quintet will present a special youth concert on Tuesday, starting at 10 a.m., in the Cerro Coso Community College lecture hall.

Although intended primarily for students from local schools, this program is open to the public without charge. All interested persons, whatever their age, are invited to attend.

This event is one of six educational programs made possible this season by the many contributions to the Concert Association's student education fund.

Anniversary ball for CEC, Seabees to be held March 20

Preparations are nearing completion for a gala anniversary ball that will be held on Saturday, March 20, at the VFW Hall in Ridgecrest to mark the 40th anniversary of the founding of the Seabees and the 115th anniversary of the Navy Civil Engineering Corps (CEC).

The CEC/Seabee anniversary ball will begin with a social hour at 6:30 p.m., and be followed by a prime rib dinner. Dinner tickets are \$11 per person.

The program for the evening will be presided over by the "King Bee," Capt. J. L. Horacek, CEC, USN, who heads the NWC Public Works Department, and the function of master of ceremonies will be handled by Harry Parode, a former Public Affairs Officer and active duty Navy officer at NWC.

Highlight of the evening will be announcement of the selection of the Seabee of the Year, the introduction of honored guests, and recognition of the oldest and youngest Seabees in attendance.

EOC Cy Ebersberger, officer-in-charge of China Lake Detachment 0217, Reserve Naval Mobile Construction Battalion 17, invites all Seabees (active duty or retired) to attend this annual celebration, which also is open to anyone who is now or has been affiliated in the past with the CEC.

The appropriate uniform is blue jacket or dinner dress blues for officers and CPOs, and full dress for enlisted personnel, while civilian guests should wear semi-formal attire.

The oldest and youngest Seabees present will participate in cutting a large birthday cake that will be baked for this occasion. Music for listening and dancing will be provided by "Sunlight".

China Lake Desert Dancers to host folk dance festival

Lech Lamidbar 82, the seventh annual folk dance festival hosted by the China Lake Desert Dancers, will take place on Saturday, March 20, from 1:30 to 4:30 p.m. and from 8 p.m. until midnight. The festival will be held in the multi-use room at Burroughs High School.

The afternoon session is free for both dancers and spectators. A \$3 admission charge for the evening session helps meet the cost of NAMA, a nationally-known orchestra, and dance exhibitions by the Dunaj International Dance Ensemble from Orange County.

The exhibition dances will include a Tunisian water jug dance and various Hungarian and Romanian dances, all of which will be performed by dancers wearing authentic costumes.

MOVIES

(G) ALL AGES ADMITTED
General Audiences
(PG) ALL AGES ADMITTED
Parental Guidance Suggested
(R) RESTRICTED
Under 17 requires accompanying
Parent or Adult Guardian

Regular starting time 7:00 p.m.

FRIDAY MARCH 12
"CHU CHU AND THE PHILLY FLASH"
Starring
Alan Arkin and Carol Burnett
(Comedy, rated PG, 92 min.)

SATURDAY MARCH 13
"STUDENT BODIES"
Starring
Kristin Ritter and Matt Goldsby
(Horror-comedy, rated R, 81 min.)

SUNDAY MARCH 14
"BLACK STALLION"
Starring
Mickey Rooney and Kelly Reno
(Drama, rated G, 117 min.)

MONDAY MARCH 15
IWV Concert Ass'n
presents
WESTWOOD WIND QUINTET
7:30 p.m.

WEDNESDAY MARCH 17
"AN EYE FOR AN EYE"
Starring
Chuck Norris and Christopher Lee
(Action-drama, rated R, 104 min.)

Membership Night fete scheduled on March 20 at COM

The Commissioned Officers' Mess has scheduled a Membership Night fete on Saturday, March 20.

A buffet dinner consisting of a tossed green salad, baron of beef, baked potato, vegetables, rolls and butter, and coffee or tea will be served from 6:30 to 9:30 p.m.

On stage, for the entertainment of members and guests, will be "Baska and Scavali," a Los Angeles-based musical group that will provide music for listening and dancing from 8 o'clock until midnight.

A price of \$5 for members and their spouses and \$6 for guests will be charged. Reservations, which are a must, can be made no later than noon on Friday, March 19, by calling the COM office at 446-2549.

Talk slated on services provided by Cancer Soc.

Life-saving services provided in the local area by the American Cancer Society (ACS) will be described at a meeting, open to the public, that will be held next Wednesday, March 17, in the East Wing of the All Faith Chapel.

Arrangements for this meeting have been made by the Indian Wells Branch of the ACS, and the speakers will be volunteers and staff members from the ACS office in Bakersfield.

Additional information can be obtained by calling Rose Varga at 446-3939.

Country-western dance class registration open

Registration is now being taken at the Community Center for a country and western dance class, sponsored by the Recreational Service Department, that will begin on Friday, March 19.

This class, which is to be held at the Community Center, is scheduled on Fridays from 7 to 8 p.m. It will continue for six weeks, through April 23. There is a fee of \$20 that is payable at the time of registration prior to the first class session.

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NAVAL WEAPONS CENTER
CHINA LAKE
CALIFORNIA

NWC, VX-5 Bluejackets of Year honored at annual banquet held on March 6



CONGRATULATIONS IN ORDER — Capt. Lahr extends both his congratulations and an NWC plaque to AZ1 Craig Wilson, NWC's Bluejacket of the Year.

Aviation Maintenance Administration First Class Craig G. Wilson and Aviation Machinist's Mate Second Class Jerald Brooks have been selected as Bluejackets of the Year for the Naval Weapons Center and Air Test and Evaluation Squadron Five, respectively.

The selection was announced at the Bluejacket of the Year dinner sponsored by the Indian Wells Valley Council of the Navy League last Saturday night when more than 250 military and civilian personnel from China Lake and from the community gathered to honor the Navy's bluejackets as represented by the eight Bluejackets of the Quarter who were guests at the banquet.

Each of the winners received \$700 in cash, a \$50 bond from the Bank of America, a \$50 bond from First Federal Savings and Loan, a \$50 bond purchased jointly by Security Pacific and by the IWV Council of the Navy League, and a lube job, oil change and filter from Bud Eyre Chevrolet. The other six nominees each received \$150 in cash and a

\$50 bond from the Bank of America. These nominees were, from VX-5, AZAN Angela Amos, AMH3 Tracy Hinds, and AMS3 Julie Webber. Nominees from NWC were AK1 Virgilio Esguerra, AMSS James Houston, and AMH3 Avon Burrell.

The winners were announced by Capt. Lahr for NWC and Capt. P. F. Hollandsworth for VX-5, each with appropriate expressions of pride in the excellent representation of their commands that the Bluejackets of the Year demonstrate.

Vivian Boultinghouse, president of the IWV Council of the Navy League, and Tom Andress, Jr., past president of the group, shared the microphone for the evening's introductions of guests.

STATE PRESIDENT ATTENDS
First introduced was Bert Iacuanelli, State President of the Navy League, and his lovely wife, Eleanor, who had come up from San Marcos to be present. He noted the support that the community was giving to the Navy personnel was obvious, as represented by the size of the gathering.

Capt. Lahr added, during his brief remarks, that he feels very much a part of the community here and feels that he and other military personnel are most fortunate to be in such a community. He also said that if Iacuanelli was seeking the best Navy League Council in the state, he need look no further because it was obviously the Indian Wells Valley group.

Capt. Hollandsworth agreed, noting that seeing all the people from town who were in the audience indicated that this was a microscopic picture of the whole community, and that this support "makes us all feel good." He also pointed out that the nominees for the Bluejacket of the Year honor were the epitome of what the Navy sought in its personnel.

SEA CADETS PARTICIPATE
Representing the youngest elements of the Navy in the community was the group of the Sea Cadets who formed an honor guard at the entrance of the dining room of the Enlisted Mess as guests entered. The Sea Cadets, sponsored by the IWV Council of the Navy League, also presented and retired the colors at the beginning and end of the evening's program.

Both AZ1 Wilson and AD2 Brooks are career military men. AZ1 Wilson, a 17-year Navy veteran, is the maintenance (Continued on Page 2)

Success mounts in geothermal drilling area

Success is continuing to crown the efforts being made by the California Energy Co., Inc., of Santa Rosa, Calif., to tap the energy production potential of the Coso Known Geothermal Area located in the northern range area of the Naval Weapons Center.

According to information released this week, the first well (No. 75-7) has been confirmed as a producer. Drilled to a depth of 1,329 ft., it is capable of giving off 180,000 pounds per hour of steam, or the equivalent of 8 megawatts of electrical energy.

This well alone is sufficient to meet roughly 40 percent of the electric power needs of the Naval Weapons Center.

According to Dr. Carl Austin, head of the Geothermal Utilization Division in the NWC Public Works Department, the second well (No. 31-8), which was drilled approximately three-fourths of a mile northeast of the first one, also has been tested and produces a volume of steam sufficient to be converted into 4 megawatts of electrical power.

Although it is has not yet been tested, a third well (No. 71-7) located three-fourths of a mile north-northwest of that first well (No. 75-7) appears to be a producer, Dr. Austin added. Drilling work is underway on a fourth well (75-7A) that is located in close proximity but offset from well No. 75-7, the first one drilled.

Well No. 75-7A is being drilled both for the purpose of conducting tests that will be run to determine how satisfactorily the reservoir of super-heated steam or water will flow through fractures and pores in the underground rock strata and to obtain data on the vertical extent of the steam zone.

Data from the tests on well No. 75-7A also will be useful in establishing how close to one another that future geothermal wells can be drilled in order to maintain optimum steam production.

For the drilling work that currently is underway on well No. 75-7A, high pressure air is being used as the drilling fluid instead of mud in order to protect the reservoir from (Continued on Page 5)



HAPPY OCCASION — His happy smile reveals how Capt. P. F. Hollandsworth, Commanding Officer of VX-5, feels about the selection of AD2 Jerald Brooks as VX-5's Bluejacket of the Year. —Photos by Don Cornelius

Valley shaken by latest swarm of earthquakes

Residents of the Indian Wells Valley were reminded once more last Sunday at 12:50 p.m. (and 45 seconds later) that California is earthquake country when the newest swarm of earthquakes resulted in two shakes of 4.3 and 4.6 on the Richter scale, respectively.

In the time period of Saturday through Tuesday afternoon, more than 45 quakes were locatable (so that their epicenters and hypocenters could be plotted), and numerous other smaller tremors were noted on recording instruments.

The current series of earthquakes swarms began on Feb. 19; whether it will continue, unfortunately, still unknown.

In case that the tremors do continue, however, accelerometers have been placed in several locations near the faults along which the swarms have been happening in

order to measure the vertical forces produced by the quakes. These strong motion instruments start recording when ground motion exceeds one-quarter the force of gravity (g), measuring the energy exhibited in terms of g.

United States Geological Survey personnel have also installed a smoke drum recorder, which is a short period seismograph, to record ground motion on the epicenter of the quakes at Charlie Tower in the Center's range area.

Charlie Tower caught the worst damage recorded in the current series of shocks. Windows on the east and west side of the tower at both the second and third floor were broken, cracks were found in the windows on both north and south sides, books from bookcases were spilled onto the floor, an air duct for a vent was pulled about

2 in. from the wall, a fire extinguisher was bounced off the wall, and numerous small, high objects were tipped over.

The road to Baker Tower also showed the effect of the quakes, with the asphalt cracking dramatically. This asphalt has shown some cracking prior to the beginning of the current earthquake swarm series, indicating that creep was happening, but within the past three weeks the cracks have widened noticeably.

Even though the full series of seismic recording stations planned as a joint venture by the Navy, USGS and the California Institute of Technology is not yet emplaced (six more stations will be set up within the next three weeks), data is being gathered from those already in place and CalTech is sending the information to the Center as (Continued on Page 4)



COLOR GUARD — An early start on possible careers in the Navy is obtained by participants in the training program offered by the Navy League-sponsored NWC Sea Cadet Squadron. Local Sea Cadets formed the color guard that took part in the opening ceremony at the Bluejacket of the Year banquet.

Top Bluejackets honored . . .

(Continued from Page 1)

management data analyst in the Quality Assurance/Analysis work center at Armitage Airfield.

The son of a career Air Force man, he says that he can't list a home town because he grew up in so many different towns; Capt. Lehr, in making his announcement of AZI Wilson as winner, commented that perhaps he should just list the United States Navy as his home town.

AD2 Brooks is assigned to the Line Shack

Ejection seat escape system subject of talk at AIAA meeting

Information on NWC's participation in and contributions to the development of a vertical-seeking automated aircrew ejection seat escape system will be the subject of a talk to be presented at the next meeting of the China Lake Section of the American Institute of Aeronautics and Astronautics (AIAA).

The meeting, which is open to all interested persons, will be held at 11:30 a.m. Tuesday in the Chart Room of the Commissioned Officers' Mess, and the speaker will be Dennis Sorges.

Sorges is the coordinator for the Maximum Performance Escape System (MPES) program, which comes under the Propulsion Systems Division of the Ordnance Systems Department.

The objective of the MPES is to develop a reliable, low maintenance escape system

where he inspects the work done by about 40 VX-5 personnel, records times and checks on aircraft movement to make sure that all flights are out on schedule.

He is a veteran of 13 years in the Army, from which he switched in order to get into the field of aviation and because "a person's chance to learn is much better in the Navy than in the Army." AD2 Brooks' wife and five children are now quite happy that he made the change.

with superior performance over a greatly expanded operational envelope.

The vertical seeking seat subsystem, which was developed and tested successfully at NWC, consists of a propulsion/steering system, a thrust vector control rocket, a digital autopilot, and a microwave radiometric attitude reference system.

During his talk, Sorges will concentrate on information regarding development and testing of the vertical seeking seat subsystem and the future of the MPES. In addition, motion pictures of the tests will be shown.

Reservations for the Tuesday luncheon meeting of AIAA can be made by calling either Stephen Carter, at NWC ext. 2627, or George Menard, ext. 2943.

Hillyer to address next IEEE meeting Monday at COM


"The Development and Maintenance of Technical Skills in Today's R&D Center Environment" will be discussed by Bob Hillyer, NWC Technical Director, at a meeting of the China Lake section of the Institute of Electrical and Electronics Engineers (IEEE) on Monday.

The meeting will be held in the Commissioned Officers' Mess at 11:30 a.m.

Reservations to attend the meeting must be made today. They can be made by telephoning Mel Creusere, NWC ext. 2009; Bob Williams, NWC ext. 6488; or Harold Manos, NWC ext. 3695.

Training class

To enroll in the following classes students should submit NWC Training Request and Authorization Form 12410 73, via department channels, to reach code 094 before the deadline listed. If handicapped indicate need for first floor room location on training request.



Digital Systems and Computers (Part 2); March 23-26, 8 a.m. to 4 p.m., Training Center. Instructor: Rudy Pannholzer, Naval Postgraduate School, Monterey.

RXS-11M Fortran/Macro User; March 22-26, 8 a.m. to 4 p.m., Training Center. Instructor: Walter Gallant, Mini & Micro Education Services. Students will need to provide a job order number for \$350.

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Captain Jude Lehr
NWC Commander

R. M. Hillyer
Technical Director

Dennis Kline
Public Affairs Officer

Don R. Yockey
Editor

Mickey Strang
Associate Editor

Don Cornelius
Staff Photographer

Beverly Becksvort
Editorial Assistant



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Promotional opportunities

Applications (Standard Form 171) should be put in the drop box located at the Reception Desk of the Personnel Department, Bldg. 34. Unless otherwise specified in an ad, applications for positions listed in this column will be accepted from current permanent NWC employees only. All others desiring employment at NWC may contact the Employment-Wage & Classification Division, Code 092, Ext. 2069. Ads will run for one week and will close at 4:30 p.m. on the Friday following their appearance in this column, unless a later date is specified in the ad. Advertising positions in the Promotional Opportunities column does not preclude the use of alternative recruiting sources in filling these positions. The filling of these positions through Merit Promotion is subject to the requirements of the DSD Program for the Stability of Civilian Employment. The minimum qualification requirement for all GS positions and positions subject to the Demonstration Project are those defined in OPM Handbook X-118; those for all wage system positions are those defined in OPM Handbook X-118C. Applicants will be evaluated on the basis of experience, training, education, and awards as indicated in a written record consisting of a SF-171, at least one supervisory appraisal if it can be obtained, and any tests, medical examinations, interviews, and supplemental qualifications requirements that may be necessary. For managerial/supervisory positions, consideration will be given to applicant's support of the Equal Employment Opportunity programs and objectives. Applicants must meet time in grade and qualifications requirements by the closing date of the ad. The Naval Weapons Center is an Equal Opportunity Employer; selections are made without discrimination for any nonmerit reason.

Announcement No. 39-007, Administrative Officer, GS-341-11, PD No. 8139014E Code 3904 — This position is in the Short Range Air-to-Surface Missile Program Office, Weapons Department. The incumbent provides administrative support for the Laser and Infrared Maverick, Advanced Medium Range Air-to-Air Missile, and Anti-Submarine Weapon/Standoff Weapon Programs. Duties include: providing fiscal monitoring, control, planning, and reporting assistance; providing financial and management analyses, projections, and recommendations regarding program problems/situations; interfacing with Navy and Air Force (sponsor) financial specialists, providing procurement/contract assistance; and assisting with personnel, space, and facilities matters. **Job Relevant Criteria:** Knowledge of Naval Weapons Center/Naval Weapons Department of Defense administrative management techniques and processes, including budget processes, fiscal cycles and controls, and system development/acquisition; ability to work independently and in team situations and to develop organizational plans of actions; ability to analyze and present findings/recommendations orally and in writing.

Announcement No. 0810, Accounting Technician Supervisory, GS-525-4/7, PD No. 7808091N, Code 08422 — This position is located in the Cost Accounting Branch, Accounting and Disbursing Division, Office of Finance and Management. The incumbent will serve as a supervisor in the control and maintenance of cost accounting, including subsidiary ledgers for the Major Contracts section. Duties will include the review of incoming contracts and amendments for accuracy and completeness; reconciling subsidiary ledger accounts; extracting necessary information from source documents, collating the data and preparing reports to enter the data into the cost accounting system; auditing computer outputs for accuracy; validating 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; ability to deal effectively with people; ability to work accurately with figures. Support of the EEO Program.

Announcement No. 34-003, Writer/Editor (Printed Media), GS-1082-5, PD No. 8234004N, Code 3411 — The position is located in the Writing Branch, Publications Division of the Technical Information Department. The incumbent edits manuscripts and writes and rewrites papers, articles, etc.; based on information gathered from a variety of sources, research files, literature sources, etc. Promotion potential GS-9. **Job Relevant Criteria:** Ability to interface effectively with all levels of Center personnel; ability to analyze data; ability to gather information; knowledge of editing techniques; specialized archival skills and familiarity with NWC products and programs. This position is part-time. Previous applicants need to reapply.

Announcement No. 00-008, Secretary (Typing) GS-318-5, PD 810008, Code 0008 — This position provides secretarial support to the Office of the Technical Director, The Assistant to the Executive Committee and the Consultant to the Technical Director. Duties include: maintaining calendar; setting up regular and special conferences and meetings; receives and directs visitors and phone calls; reviews and prepares correspondence; receives and screens incoming mail; maintains files; prepares travel orders and itineraries, etc. **Job Relevant Criteria:** Ability to perform receptionist and telephone duties; ability to

maintain files; preparing travel orders and itineraries, etc. **Job Relevant Criteria:** Ability to perform receptionist and telephone duties; ability to

Announcement No. 8-44-18, Supervisory Electronics Engineer, DP-855-3, PAC No. 8244511E, Code 4422 — This position is that of head, Instrumentation/Payload Buildup Section, Test Support Branch of the Parachute Systems Department. The incumbent is responsible for the technical management, planning, direction, coordination and supervision of the project tasks assigned to the section. The section is responsible for the design, fabrication, installation of all instrumentation used by the department in the testing of aerodynamic decelerators. The section is also responsible for the mechanical fabrication and build-up of the various types of test vehicles used by the Test Support Branch. **Job Relevant Criteria:** Knowledge of airborne telemetry instrumentation systems and various types of transducers such as accelerators, strain gauges, etc. Understanding of microprocessor technology and its application to instrumentation systems design; ability to supervise various level technicians, and engineers. If interested, contact: Don Stapleton, ext. 3741.

Announcement No. 3610, Electronics Engineer, DP 855-2/3, PAC 823618E, 823619, Code 3622 — This position is located in the Systems Electronics Branch, Systems Engineering Division, Engineering Department. The incumbent will provide production support for the Sidewinder AIM-9M guidance electronics system. This involves electronic circuit design and analysis, interface with contractors and other government activities, and support of documentation reviews. **Job Relevant Criteria:** Experience in missile system design and technical support; effective writing and verbal skills are necessary.

Announcement No. 3610, Electronics Engineer, DP 855-2/3, PAC 823618E, 823619, Code 3622 — This position is located in the Systems Electronics Branch, Systems Engineering Division, Engineering Department. The incumbent will provide production support for the Sidewinder AIM-9M guidance electronics system. This involves electronic circuit design and analysis, interface with contractors and other government activities, and support of documentation reviews. **Job Relevant Criteria:** Experience in missile system design and technical support; effective writing and verbal skills are necessary.

Announcement No. 38-034, Editorial Assistant, GS-1087-5/6, PD No. 8238004N, Code 388 — This position is located in the Aerothermochemistry Division of the Research Department. The editorial assistant forms editorial support services in preparing rough drafts for publication as center technical reports, for presentations at technical meetings, or as scientific journal publications. The incumbent is responsible for advising the authors of the division on publication requirements and procedures. In addition to editing the manuscripts for grammar, punctuation, syllabification, spelling, capitalization, accepted English usage, and grammatical structure, the editorial assistant edits for conformance to stylistic requirements of the various publication media, and arranges the layout for the best presentation. The incumbent works on several projects at the same time, each in various stages of completion, and reviews the final manuscripts to assure consistency between text and figures, tables, and references, and verifies all numerical sequences. It is the responsibility of the incumbent to obtain all required reviews and releases prior to publication, and to follow up on all editorial services obtained outside the division. **Job Relevant Criteria:** Ability to work with people; ability to maintain a high level of accuracy in work requiring close attention to details; ability to plan work, to work with a minimum of supervision, and to work under tight deadlines.

Announcement No. 31-045, Electronics Engineer, Computer Scientist, Physicist, Mathematician, Aerospace Engineer, Mechanical Engineer, DP 3 (Interdisciplinary), PAC 8231527, Code 3113 — Position is located in the A-7 Facility Branch, Avionics Facilities Division, Aircraft Weapons Integration Department. The A-7 Facility Branch is responsible for the development, operation, and maintenance of the real-time simulation facilities for the A-7E Program Office. The facilities provide the testbed for the development, testing and validation of the A-7 tactical software, avionics systems and digital hardware. The incumbent will define, analyze, design and test software for the A-7 real-time simulator. Software will be developed as part of a team effort, using state-of-the-art techniques of structured software analysis and design. The software to be developed includes system models, environment models, real-time ballistics analysis, hardware interface drivers, etc. He/she will further be required to monitor and supervise the work of junior software engineers. **Job Relevant Criteria:** Ability to communicate well, both orally and in writing; ability to plan; familiarity with good software design procedures; experience in software testing.

Announcement No. 32-035, Physical Science Technician, DT-1311-1/2, PAC No. 8232766 and 8232767, Code 3272 — (Two positions). These positions are located in the Ordnance Systems Department, Propulsion System Division, Solid Propellants Branch. The incumbent's duties include the preparation of raw materials for the formulation and processing of rocket motor liners, solid propellants and explosives. The incumbent will also formulate or assist in formulation and processing or oversee the processing of solid propellants and explosives. Duties will also include the casting of these materials and developing methods for mixing and casting. The incumbent will assist engineers or chemists in planning programs, analyzing results, and writing appropriate reports. **Job Relevant Criteria:** The ability to work closely with others; the ability to safely handle propellants and explosives; basic knowledge of common math; knowledge of propellant and explosive chemistry; ability to write reports.

Announcement No. 26-291, Pipefitter, WG-4204-1, JD No. 204-1N, Code 2641K/2642U — (2 vacancies) Position is located in the Maintenance-Utilities Division of the Public Works Department. Incumbent performs the duties of a pipefitter and steamfitter, as well as some plumbing duties, such as pipe, fittings and fixtures to construct or maintain piping systems such as steam heating, steam power, hot water heating, hydraulic, high pressure air, chemical water, various gases, Cardox, fire sprinkler system, vacuum lines, nitrogen lines and oil line systems. Locate leaks or obstructions and repairs or clears them. Tests piping systems. Maintains and repairs all steam, oil, water and gas distribution lines in and connected to boiler plants, various experimental installations. May install wall heating boilers not requiring work of boiler-makers. **Job Relevant Criteria:** Ability to do the work of the position without more than normal supervision; in-depth specifications, blueprints, etc.; measurement and layout; materials, tools and equipment to boiler troubleshooting; technical practices. **Supplemental Qualifications Statement** is required along with SF-171 and may be picked up in the Personnel building, Rm. 100.

review, control, screen, and distribute incoming mail; ability to review outgoing correspondence; ability to compose correspondence and/or to prepare non-technical reports; knowledge of filing systems and files management; ability to meet the administrative needs of the office; ability to train clerical personnel and organize workload of clerical staff or processes; ability to plan and coordinate travel arrangements; ability to maintain and coordinate supervisor's calendar and to arrange conferences. **Supplemental Qualifications Statement** required, along with 171 Supplemental Qualifications Statement in the Personnel building, Rm. 113, from Susie Cross.

Announcement No. 33-006, Electronic Engineer, DP-855-2/3, PAC 8023580E, Code 3337 — This position is located in the Short Range Missile Fuze Branch, Fuze System Division, Fuze and Sensors Department. The branch is responsible for the design, development and production support of proximity fuze systems for small air-to-air and surface-to-air weapons. The incumbent will be responsible for the design and development of electronic circuits and subsystems for ranging devices. The incumbent will develop analog and digital circuits, evaluate circuit and subsystem performance against requirements and prepare ranging systems for demonstration tests. **Job Relevant Criteria:** Knowledge and understanding of analog and digital electronic circuits and systems; effective in written and oral communication; some knowledge of optical RF systems desired. Previous applicants need not reapply.

Announcement No. 32-034, Electrical Engineering Technician, DT-802-2, PAC No. 8223255, Code 3254 — (This position is located in the Test Support Branch, Parachute Systems Department. The incumbent is responsible for the technical management, planning, direction, coordination and supervision of the project tasks assigned to the section. The section is responsible for the design, fabrication, installation of all instrumentation used by the department in the testing of aerodynamic decelerators. The section is also responsible for the mechanical fabrication and build-up of the various types of test vehicles used by the Test Support Branch. **Job Relevant Criteria:** Knowledge of airborne telemetry instrumentation systems and various types of transducers such as accelerators, strain gauges, etc. Understanding of microprocessor technology and its application to instrumentation systems design; ability to supervise various level technicians, and engineers. If interested, contact: Don Stapleton, ext. 3741.

Announcement No. 3610, Electronics Engineer, DP 855-2/3, PAC 823618E, 823619, Code 3622 — This position is located in the Systems Electronics Branch, Systems Engineering Division, Engineering Department. The incumbent will provide production support for the Sidewinder AIM-9M guidance electronics system. This involves electronic circuit design and analysis, interface with contractors and other government activities, and support of documentation reviews. **Job Relevant Criteria:** Experience in missile system design and technical support; effective writing and verbal skills are necessary.

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Burros win CIF basketball title . . .

(Continued from Page 6)

the length of the court for a basket, and Heyward then slam-dunked a 2-pointer. He was, however, given a technical for hanging on the rim after the shot.

The fourth quarter began with Burroughs leading by an 11-point margin of 52-41, and at the final horn the Ridgcrest team still held an 11-point bulge, as the scoreboard read 66-55 in favor of the Burros.

During the final 8-min. of action, the Cougars, who hadn't been able to stop Heyward any other way, took a couple of shots at him that sent him to the floor hard in what is considered to be a limited contact sport.

Heyward was hammered once under the Capo Valley basket by Curt Ball, but got off the deck to sink a pair of charity tosses that fattened the BHS lead to 56-48 midway through the final period of play.

A minute later, Don Sedwick, the other starting guard for the Cougars, battered Heyward with such extra zeal that the game was halted for 2-3 min. and two paramedics came out onto the floor along with members of the BHS coaching staff to check over the fallen team leader for Burroughs.

After this mid-court collision, Heyward again dropped in two charity tosses, and the Burros' fans breathed a little more easily as the home team sat atop a 60-50 lead with 2:56 left until the final horn.

Cool free throw shooting in the crucial fourth quarter of play also was exhibited by Paul VanderWerf, who came off the bench to hit four charity tosses and followed that up with a field goal that gave the Burros a lead of 64-50 as the game wound down to the final 90 sec. of action.

While the Burros tallied 10 points at the free throw line in the fourth quarter, the Cougars tallied only two.

Volleyball is next on Commander's Cup schedule of events

Military athletes representing NWC Blue, NWC Gold and VX-5 will tangle next week at the Center gym in Commander's Cup volleyball competition. All games will get underway at 5 p.m.

The schedule opens with a match on Tuesday between NWC Gold and NWC Blue, followed on Wednesday, March 17, by a contest between NWC Gold and VX-5.

Volleyball competition will conclude on Thursday, March 18, when the teams representing NWC Blue and VX-5 pair off.

Military personnel interested in taking part in the volleyball competition are asked to contact the appropriate member of the Military Athletic Committee. They are: for NWC Blue, Basil Robinson, call NWC ext. 5564; for NWC Gold, Ken Dorrell, call 3411, ext. 439; and for VX-5, call either Tom Ringler, ext. 5260, or Boyd Dunham, ext. 5322.

Military marksmen invited to try out for NWC pistol team

Tryouts for military personnel interested in marksmanship competition as members of the Naval Weapons Center pistol team will be held on Tuesday from 11:30 a.m. to 1 p.m. at the Sierra Desert Gun Club Range. The range is located off Sandquist Road, west of the security gate enroute to Armitage Airfield.

The tryouts will consist of a standard 300-point National Rifle Association match course fired with .22 caliber target pistols. Both pistols and ammunition will be furnished for use by prospective members of the NWC pistol team.

Because of the limited number of firing positions at the gun club range, tryouts next Tuesday will be limited to the first 20 individuals who apply.

If additional military personnel wish to try out for the team, another day will be scheduled.

Additional information can be obtained by calling Lt. John Gilbert at NWC ext. 2421.

Cougars' hopes went down the drain as they were able to connect on just 2 out of a possible 10 charity tosses during the fourth quarter.

Heyward, named the Class 2-A Division's "Most Valuable Player," was the game's high point man with 21 on 7 field goals and 7 out of 10 free throws. Wooten and Means, the two BHS guards, tallied 11 and 10 points, respectively; Fulton and Killilea, who round out the starting five, added 9 and 8, respectively, and VanderWerf chipped in 6 points.

Like Heyward, Means, sophomore guard for Burroughs, also was singled out for special recognition by being chosen on the 10-man all tournament team following the CIF Southern Section finals at Long Beach. This team was made up of outstanding players from the Small Schools up through the 4-A Division of the playoff competition.



Woman athlete from China Lake plays on all-Navy hoop team

Felicia (Fee) Blackburn has made the roster cut and is one of the 12 players on the 1982 all-Navy women's basketball team that is now preparing for the military women's inter-service basketball tournament scheduled March 14 through 19 at Fort Indiantown Gap, Anville, Pa.

Blackburn is assigned to the VX-5 Administration Office, and has served for nearly two years at China Lake, after being transferred here from Yeoman A School in Meridian, Miss.

Doug Broback, coach of the all-Navy women's basketball team that is in training at the Naval Air Station, North Island (San Diego), has been starting Blackburn at one of the forward positions in practice games that have been played against women's college and university teams, and she has responded by averaging 12 points per game and snapping up 8 rebounds per tilt, as well.

This is quite a fine showing for Blackburn, who is a newcomer to the all-Navy women's basketball team — a group composed largely of returning players. In addition, the China Laker made the all-Navy team without having the advantage of previous playing experience at the college or university level.

In preparation for the upcoming inter-service tournament, the all-Navy women's basketball team has been gaining experience while losing games to women's squads from Pepperdine University, the University of California at Santa Barbara, and Oxnard College.

Coach Broback attributes the losses, in part, to the fact that his players were together as a unit for less than two weeks after the roster was cut to the final 12, and have been competing against teams that have the better part of a season's play already behind them.

Other games scheduled prior to the start of the inter-service competition included a game against Bakersfield City College at 3 p.m. on Friday, March 5, as well as contests against San Diego State, San Diego City College, and Ventura College.

Sports of All Sorts team maintains firm grasp on first place in Premier League

Sports of All Sorts saw its lead diminished slightly to 37 points over the second place Hideaway keglers during Monday night's Premier (scratch) League action at Hall Memorial Lanes.

The league leaders knocked off Vitro Systems 13 to 7 in their match, while the league runner-ups pounded out a 15-5 win over the ERI Hustlers.

Bowlers for the last place Partlow Construction squad came up with the high team China Lake Little League baseball tryouts planned

Another tryout session for China Lake Little League baseball players will be held tomorrow, from 9 a.m. to 1 p.m., at Little League diamond No. 4.

This year's Little League baseball program is open to boys and girls at least 6 years of age, but who will not be more than 12 years old on July 31, 1982.

All such youngsters who live at China Lake are eligible to participate, in addition to those who reside either in Inyokern or north of Drummond Avenue in Ridgecrest.

A donation of \$20 for one child and \$30 for two or more from the same family is requested. This donation (it is not a mandatory registration fee) is the principal means of providing financial support for the China Lake Little League.

Burros boys win CIF basketball championship

Burroughs High School's boys' varsity basketball team, urged on by a throng of nearly 2,500 hometown fans, proved itself to be the class of CIF Southern Section 2-A Division last Saturday in the Long Beach Arena.

The Burros, coached by Larry Bird and company, swept to the CIF championship with a 66-55 victory over the Capistrano Valley Cougars, a team from Mission Viejo that won the South Coast League title to earn a berth in the post-season playoffs.

This is just the second CIF basketball championship for the Burros in the history of the local high school, and the first one

since being moved up to the 2-A Division. The BHS cagers brought home not only a large team trophy, and a trophy for Coach Larry Bird, but also individual awards for each member of the 13-player squad.

No championship game jitters were in evidence during the early going on the part of the Burros, who went right to work by hitting a barrage of baskets — giving the appearance they were right at home on the Long Beach Arena despite the pressure of the title-deciding tilt.

Outside shooting by guards Dan Means and David Wooten got the Burros' offense rolling during the first 8-min. of play.

Wooten hit three field goals in a row, following an opening hoop by Means. The Cougars kept pace with three hoops of their own, but called a time out to recoup their forces midway through the first quarter after a basket by Dale Killilea was sandwiched in between a 3-point play and a second field goal by Dalton Heyward to give the Burros a 15-6 lead.

At the end of the first quarter, thanks also to two more baskets by Killilea, the Burros had an 8-point bulge of 23-15.

Things continued to turn up roses for the Burros in the second period of play as they built up a 40-25 lead with just over a minute left to play until the halftime intermission, and left the floor at half time with a 16-point advantage of 44-28.

The excellent field goal shooting (76 percent by the Ridgecrest team) was exem-

As winners of the Class 2A Southern Section CIF basketball championship, the BHS boys' varsity basketball team earned the right to enter the Southern Regional hoop competition. This, the first such regional basketball tourney to be held in recent years, is a stepping stone to the high school state basketball championship.

Back at the Long Beach Arena last night for an 8:30 p.m. tip-off, the Burros vied with the cagers from Washington Union High School in Fresno — a team that placed second in the Central Section playoffs. Results of that game were received too late for inclusion in this issue of the Rocketeer.

The Southern Region Division II title will be decided in a game at 5:30 p.m. Saturday at Long Beach between the winners of Thursday night's Burroughs vs. Washington Union and Banning vs. Riverdale games.

plified by the effort of Heyward, who banked in a 28-foot shot just after the horn sounded to end the half. Even though the basket was disallowed, Heyward already had 13 points.

Others who contributed to the well-balanced first half scoring attack by the BHS varsity were Means (10), Killilea (8), Scott Fulton (7), and Wooten (6).

The Cougars were led at halftime by Dan Dargan, a forward, and Burt Call, a guard, who had 8 points each.

Field goal shooting by the Burros cooled off some in the second half, particularly in the third quarter when the BHS varsity tallied just 8 points. Four of these points were of the spectacular variety, however. Two points came on a drive by Means, who broke loose from his defender and roared

(Continued on Page 7)



PHYSICAL FITNESS TEST HELD — A portion of each Wednesday afternoon is now set aside for the Navy's annual physical fitness testing of military personnel. The standards that must be met differ depending upon which of three age groups an individual is in. The age groups are 17-25, 26-33 and 34-39. Those 40 years of age and over also are encouraged to participate. In the upper photo, Ens. Cynthia Kurtz, head of the Communications Division, observes as RMSA Victoria Locke and RM3 Darryl Shields go through a pullup exercise to test their arm and shoulder strength. In the lower photo, Lt. Dave Feldman (standing) executive officer of enlisted personnel, watches while situps are performed as a measure of trunk strength and flexibility. Up until this week, more than 170 military personnel had completed their physical fitness tests.

The Skipper sez



All China Lakers, including military personnel, civilian employees, and their dependents are invited to submit questions to this column. Such queries must be in good taste and pertain to matters of interest to a large segment of the China Lake community. Answers to these questions are directly from Capt. Lafr. Please call NWC ext. 2727 with your question and state whether you are a military member, civilian employee or dependent. No other identification is necessary. Since only three or four questions can be answered in the Rocketeer each week, anyone who would like to ensure getting an answer to a question may leave name and address for a direct contact, but this is not required otherwise. There is no intent that this column be used to subvert normal, established chain-of-command channels.

QUESTION

Civilian employee — Regarding the new payroll system, my concern is that we do have a system that is in progress now and seems to be functioning properly. Why are we now going through the extra cost of changing the system? When the Postal Service claims it already is overworked, why are we going to a system of mailing employees' pay stubs to them, when it is well known that the mail system is extremely unreliable to say the least?

We'd also like to know what is going to happen to the personnel on Center who live from payday to payday, whose checks vary in size, when their stubs are lost or misplaced because the system at the Post Office is overworked or unreliable? Persons not knowing how much is deposited in their checking or their various accounts on Center would run into a large problem.

I would also like to know why this has been done now — especially when the system we have seems to be working? It's my understanding from talking to the other personnel on Center that they do like the new LES form because it gives them more information. Thank you.

ANSWER

The forthcoming mailing of LESs does not involve any change to the system, just a change in the method of delivery. Since NAVCOMPT redesigned the leave and earnings statement (LES) as a mailer, the decision was made to utilize the form as it was intended.

The elimination of hand delivery of LESs and possible future elimination of hand delivery of paychecks will save the Center an estimated six man-years of effort, which will far outweigh the extra mailing costs.

As far as problems with the mail service, we have contacted the Postmaster to determine methods to ensure speedy delivery. Should statements be lost or delivered late, you may call your financial institution or the Payroll Office to determine the amount of your deposit.

QUESTION

Civilian employee — To help to conserve energy, I ride the Navy bus, and I'd like to know if there is a reason why seat belts are not installed in the Navy bus. Is there a possibility that the Navy could install seat belts?

ANSWER

Yes, there is a reason for no seat belts on buses; however, Public Works hated to see this question come along because everyone in the Transportation Division knew that seat belts in buses were unsafe, but no one knew where to find out why. After an extensive search, they found a study conducted by the Society of Automotive Engineers at the University of California at Los Angeles.

The study found that passengers wearing seat belts on buses were subjected to more serious injuries than passengers without seat belts. Based on that study, the policy of the Navy is to buy buses without seat belts. I want to emphasize that the no-seat-belt-rule applies only to buses.

QUESTION

Civilian Employee — I would like to know why they have an energy awareness push when it's impossible to walk to work, because you can't cross China Lake Blvd. or Inyokern Rd., near the main gate at 7:30 a.m. or at 4:30 p.m.

ANSWER

Well, because there are other areas where we can conserve energy. But to address your point: the Navy has no jurisdiction in the established state highway rights-of-way and, because of government regulations, is restricted in funding a control system or changes that will provide a crossing on non-Navy property. A Cal-Trans vehicle survey in 1979 showed insufficient pedestrian traffic to warrant consideration of a control or crossing system.

Answer provided to query on Pay Deposit Quicker system

Recent effort to encourage NWC employees to take advantage of the opportunity to have their paychecks deposited directly into their checking or savings accounts at a financial institution of their choice has led to a number of questions addressed to the Skipper Sez column in the Rocketeer.

The Pay Deposit Quicker (PDQ) system does have its advantages to Payroll Office

possible, work groups turn in their time cards by the close of the working day on Thursday, since this will help to expedite the work of payroll employees. This is not mandatory, however.

At any rate, no matter what the deadline is, those responsible for submitting employee timecards must call the Payroll Office with information on any changes that occurred after timecards were submitted.

Payroll is to be called, for example, if an employee's timecard has been submitted showing a full 40-hour week, but he or she is sick or takes annual leave on a Friday afternoon or works overtime on Friday night or Saturday.

The telephone call then must be backed up by the following Monday by turning in a supplemental timecard that reflects what changes in an employee's working hours occurred.

A certain number of such changes in employee timecards do occur each week no matter what the deadline for submitting timecards happens to be. Under the current system there has been no noticeable change in the volume of such changes, Gloria Dominguez, head of the Payroll Office, stated.



personnel. It has not, however, caused any mandatory change in the deadline for weekly submission of employee timecards. On a regular basis, that deadline is still 11 a.m. on Fridays. There have been times that the Payroll Office has asked that, if



NEW BUILDING TAKES SHAPE — Steel girders, hoisted into place by a large crane, outline the shape of the Weapons System Support Facility that is being built at the east end of Hangar 3 at Armitage Airfield. Most of the underground utilities were installed before workmen began the steel work, which is now about 70 percent complete. Steel decking will follow, and then the lightweight concrete floors for the five-story structure will be poured. — Photo by Jon Partin

Family stranded by car trouble aided by Navy helicopter crew

Participation by a Navy search and rescue (SAR) helicopter and crew in a training exercise last Saturday in the Saline Valley area of Inyo County turned into an opportunity to assist a family from Costa Mesa, Calif., whose vehicle had broken down on a rough, desert road leading to Cerro Gordo Peak in the Inyo Mountains.

The desert visitors, who were traveling alone, had informed no one of their intended destination or their plans for this outing, which might well have ended in a tragedy had it not been for the fact that the Navy helicopter from China Lake happened to pass overhead while returning from the practice search exercise.

Willard Cahill, the driver of the stranded

vehicle, had touched off an emergency signal flare and was waving a jacket to attract the attention of helicopter crew members when he heard the chopper approaching. With Cahill was his wife, Diana, and the couple's 2-year-old daughter, Sara.

The Cahills whose car had given out at around the 5,000 ft. level of Cerro Gordo Peak, had been headed for the Saline Valley, but turned onto the wrong road. They had been stranded most of the day when the Navy helicopter came along around 5 p.m.

Loaded into the aircraft, the Costa Mesa residents were flown to Saline Valley, where Inyo County Sheriff's Department personnel involved in that day's practice search exercise were still on the scene.

Most fire alarm boxes to be removed in old duplex area

The majority of federal housing south of East Inyokern Road is scheduled for demolition in the very near future. Prior to the start of the demolition project, all street fire alarm boxes south of East Inyokern Road will be removed.

At present, a new fire alarm box system for the remaining houses in this area is not being considered. Experience has proven that the present fire alarm system serves little usefulness in housing areas.

Fire Division records indicate that the telephone has been the primary source of communication for reporting fires and emergencies in the housing areas over the past five years. When a fire alarm box was used in the housing area, it was often found to be a malicious false alarm.

Residents in federal housing are reminded that emergency number telephone stickers are available from the Fire Division. Those interested in having one or more such stickers mailed to them can make arrangements for this to be done by calling the Fire Division at NWC ext. 2146.





NATURE'S VANDALISM — East and west facing windows in Charlie Tower felt the full effect of last Sunday's earthquakes. Fortunately, no one was in the tower to be injured by the broken plate glass. Bookshelves in the tower spilled their contents, a fire extinguisher was knocked off the wall, and various free-standing items were knocked over by the force of the quakes. — Photo by Don Cornelius

Barbiturates offer chance for legitimate use, as well as abuse

A mixed blessing to the world has been the use of barbiturates because they have very legitimate medical uses as sedatives and sleeping medications, and yet have also resulted in serious and often fatal abuse.

The most commonly used barbiturates include pentobarbital (Nembutal), secobarbital (Seconal), and amobarbital (Amytal). Taken orally, these take effect in from 15 to 40 minutes and the effect lasts for up to 6 hours.

Both with legitimate and with street use, these drugs have a strong potential for creating psychological and physical dependence. Withdrawal from barbiturates, after a physical dependence has been established, is harder than withdrawal from heroin and should always be done only under the close supervision of a doctor.

Users, both legal and illicit, also find that tolerance for barbiturates rises rapidly, so increasingly larger doses are needed to accomplish the same purpose of relaxing the individual. (One legitimate use of barbiturates is for persons who have blood pressure problems, for instance.)

Short term effects of taking barbiturates ("barbs," "downers," "reds") include drowsiness, a feeling of well-being, relaxation, a lessening of coordination, and sleep. "Downers" are also taken, often in combination with "uppers" (amphetamines) so that persons who are addicted to these can sleep. Heroin users also take barbiturates to supplement their drug or to substitute for it.

Taken in excess quantity, "barbs" can cause slurred speech, hangover, respiratory

failure, coma, and death. Long term adverse effects are mental confusion, a chronic desire to sleep, irritability, dangerous withdrawal symptoms, and death. Death can also result from combining barbiturates and alcohol because these two in combination have a one-plus-one-equals-five effect. Several deaths of prominent show business personalities have come about from this deadly combination.

Barbiturate overdose is implicated in nearly one-third of all drug-induced deaths in the United States. Accidental deaths occur when users take barbiturates, and then become foggy enough so that they don't remember that they have already taken their "downers" and continue to take additional amounts. Less than fatal doses can still send a user into a coma.

In any case of a suspected barbiturate overdose, medical help should be sought promptly. Getting the overdosed individual through the first immediate crisis is not enough — the drug can linger in the system and create problems many hours later that still require medical assistance. (The classic movie sequence of someone being given a lot of coffee and walked back and forth to keep the individual "from going to sleep" after an overdose is an inadequate response to a life-threatening need.)

Police reports . . .

China Lake police were called to the Murray Junior High School office on Thursday morning of last week to pick up a white, male student who allegedly was in possession of marijuana and smoking paraphernalia.

The youth, who was being detained by a school administrator, was released by police to his parents to await action by the Juvenile Probation Department.

BEQ ROOM BURGLARIZED
A burglary from the occupant of Room 125-A in BEQ-1 was reported on the afternoon of March 4 to China Lake police.

Missing was \$278 in cash that had been taken from a secured locker. Police found no evidence of forced entry, but the victim had kept a key to the locker in which the money was stored in an unlocked desk in the room.

LIQUOR, BEER STOLEN
A burglar who broke windows at two residences absconded with liquor and beer from vacant VIP quarters at 1201 and 1203 Essex Circle.

The incident, which resulted in the loss of liquid refreshments valued at \$88, plus \$100 for repairs to the two broken windows — one in each residence — was reported Tuesday to China Lake police.

NECKLACE DISAPPEARS
Theft of a 14-karat gold chain necklace was reported Tuesday evening to China Lake police by the victim, who lives at 338 Sellars Circle.

Value of the missing necklace was set at \$260.

Sensible thermostat settings can save money in summer

Thoughts of summer heat, air conditioning, and the dramatic rise in electric rates have combined to cause a dread of the months ahead for many local residents.

Southern California Edison Company research has some practical suggestions for those who try to escape the desert temperatures through the marvels of air conditioning.

For instance, by setting the house thermostat at 78 degrees rather than 75 degrees, nearly 10 percent of the energy used for cooling a home can be saved. (For every degree that the thermostat is set up, about three percent less electricity is used.)

SCE also suggests that those who are out of the household for a good part of the day should shut the thermostat off before leaving in the morning, close window blinds, and try to "keep the cool in" by leaving windows shut while they are gone. The house will be warm when they return at night, but a significant amount of energy will have been saved.

Every bit of electricity saved translates into real monetary savings because charges now are 7.3 cents per kilowatt hour for the first 240 kilowatts and 10 cents per kilowatt for amounts over that minimum.

More earthquakes hit here . . .

(Continued from Page 1)

rapidly as it comes off the CalTech computer.

The actual centers of the current swarms of quakes are getting closer to the surface of the ground. Most quakes in the local area originate six kilometers or more down in the earth; these began at six kilometers, but have moved steadily closer to the surface, with the last group (this week's) up in the three-kilometer range. Quakes elsewhere in the country tend to average closer to 15 kilometers down. The closer a quake is to the surface of the earth, the more apt it is to cause damage.

What to expect for the immediate future is in doubt, according to Dr. Glenn Roquemore of the Research Department. The prediction of earthquakes (authors of the "Jupiter Effect" which suggested large shocks would occur this week notwithstanding) is still not an established science.

The swarms have been moving northwest on small faults that look like they might be part of the Little Lake fault system, indicating tectonic origin. Whether they have peaked and will stop now or whether they will continue, only the future can tell.



MEASURING DEVICE — Peter German of the U.S.G.S. makes final adjustments on an accelerometer (a strong motion detecting machine) that was installed on the range near the epicenter of this week's earthquake swarm to measure the force of the earth's movement if any further quakes might occur.



MIKE'S LAB by Bill Erwin
THIS IS AN EXTREMELY DELICATE EXPERIMENT IF ANYBODY EVEN WINKS ILL HAVE THIER HIDE!



THE GARGAWK EARTHQUAKE!
RUMBLE
QUAKE
RUMBLE



NOTE: IT'S NOT NICE TO FOOL MOTHER NATURE, BUT IT'S FOOLISH TO THE MAX TO THREATEN HER...

Earthquake expert offers advice to residents of Center housing

Earthquakes are like death and taxes, Dr. Pierre St.-Amand told those present at the monthly meeting of tenants in Center housing on Monday evening, in that there's no point in worrying about them, but it is wise to prepare for them as much as possible.

Dr. St.-Amand, a chief scientist working in the Office of the NWC Technical Director, is recognized internationally as an expert on earthquakes.

Preparation includes such things as fastening bookshelves and other free-standing shelves to the wall with sheet-metal screws and firmly attaching to the wall any other heavy object. Cleaning fluids and other flammable liquids should be put on low shelves, or, preferably, stored outside.

Any heavy items should be taken from high shelving and kept on a low shelf where they can't fall on those in the room. Dr. St.-Amand noted, and beds should not be set under large windows that could shatter.

He also warned that if a severe earthquake occurs, people should turn off their gas to avoid possible explosion and if their stove's pilot lights are out following a quake, to be sure not to relight them until a check has been made for possible leaks.

It's also wise to have at least enough food for one to two weeks on hand, plus a minimum of one gallon of water for each person per day stored — preferably at least a week's worth of water. A radio with batteries and a flashlight in each room are good to keep on hand, according to him.

Dr. St.-Amand, whose personal experience includes being in several major quakes, says that those who are living in Navy housing have little cause for concern

that their housing will collapse in any quake likely to happen in the local area. "Single story housing generally doesn't fall, and Navy housing is better built than the average housing anyway," he added.

Equally reassuring, he said is the fact that in the local area a disaster organization with a high level of competence exists that can take over if a major quake occurs.

This same group, Dr. St.-Amand said, has been meeting and studying any changes that need to be made in the way that Navy buildings are used to ensure their earthquake safety. The Public Works Department is responding to these findings as rapidly as money permits.

Other subjects covered at the meeting, which was chaired by Barbara Manning, who heads the tenants' organization, included the "run" on garden supplies at the Self Help store last Saturday and on other supplies in the Self Help store operated by the Housing Office. Bill Hatfield, who heads the Housing Division, said that a new supply of fertilizer is expected by this weekend, and that a rototiller, shovels, and lawnmowers are available.

Volunteers are going to be needed, Hatfield said, to run the Self Help Program. Those willing to help can call his office, NWC ext. 3411, ext. 318, to volunteer.

A major inspection program is continuing for the purpose of checking yards and fences and out-buildings to ensure that they are attractive and well kept, said Hatfield. Those who are cited will be given 30 days to fix up or remove unsightly structures before a demolition crew will be called to remove them.

The next tenants' meeting will be held on the second Monday in April at 7 p.m. in the Community Center, unless residents are notified of a change in time or date.

Volunteer for medical research study, all NWC personnel urged

"It's silly not to volunteer," says one of the men whose blood was taken last week when the Aircraft Weapons Integration Department personnel were contacted by Grace Seal and her team of medical technicians for the medical research study now underway.

"You get a good readout on a lot of factors in your own blood — free — and if you don't take part, you're really letting everyone else who works on the Center down."

The point that this individual made is very good, Dr. Peggy Rogers, coordinator for NWC for the study, says, because the study will be really valid only if there is close to 100 percent employee participation.

She emphasizes that everyone, regardless of what his or her job is, military or civilian, and regardless of how long he or she has been on board, should take advantage of the

opportunity to participate. Only in that way can medical personnel and Center management ever truly determine if a problem exists on board.

So far about 450 individuals have had blood drawn. Participation by Safety and Security Department personnel was only 54 percent, the Weapons Planning Group had an initial 71 percent participation, and figures have not yet been compiled for the Aircraft Weapons Integration Department.

Since individuals who did not have their teaspoon-and-half of blood drawn at the time that their group was contacted can still volunteer by telephoning Grace Seal at NWC ext. 2911 to set up an appointment, these figures are expected to increase.

Drilling work . . .

(Continued from Page 1)

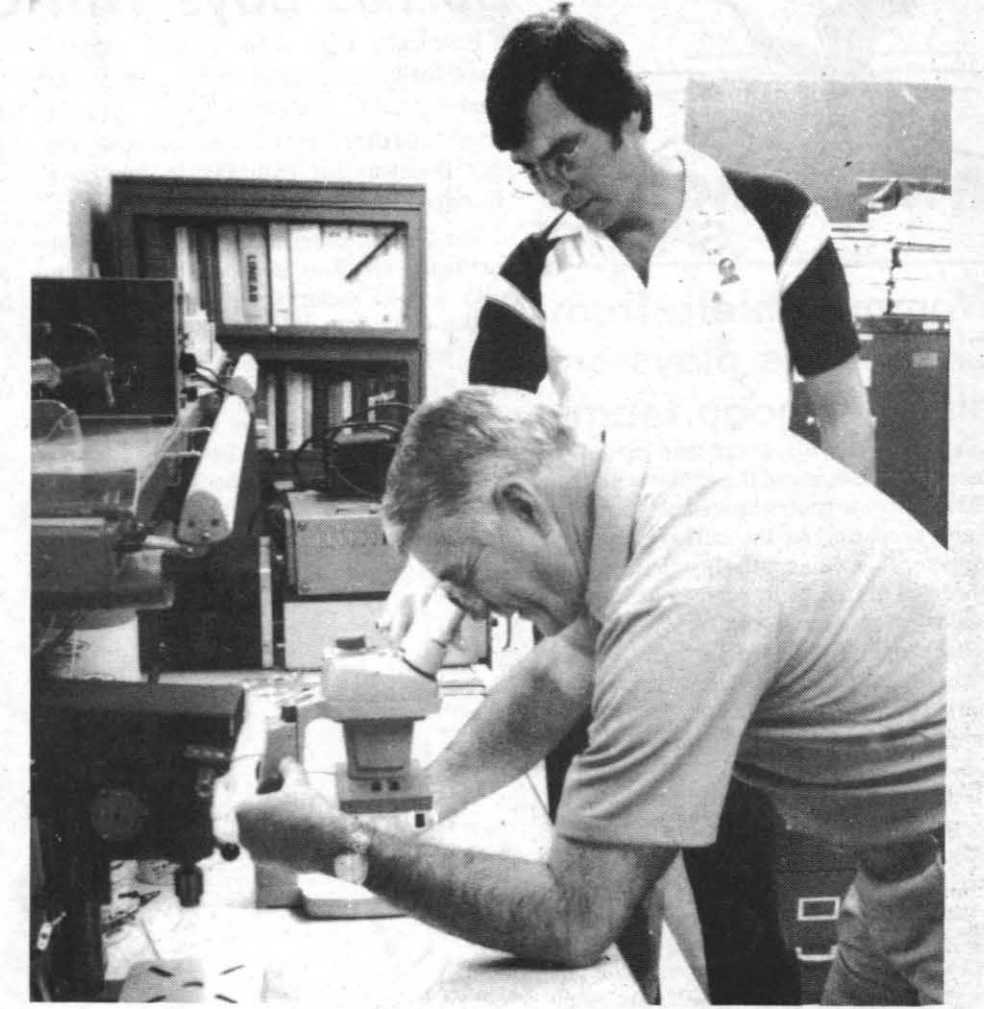
being plugged up or suffering other damage. This, Dr. Austin commented, results in a rather spectacular steam plume that can (at times) be seen from miles away during the drilling operation.

Even as the work of drilling the fourth well in the Coso geothermal area is moving ahead, preparations also are being made to start work on a fifth well.

The California Energy Co. is operating the China Lake Joint Venture on behalf of itself and an investor group headed by Caithness Corporation of New York. The company plans to provide power to the Navy within five years of the date (Dec. 6, 1979) that a contract was signed.

This contract calls for the contractor to complete evaluation of the resource, the power plant, and operate the latter at no capital cost to the Navy. The contractor will recoup his investment through payment for the conversion of geothermal energy to electricity which is delivered to the Navy.

Title to the land, the geothermal resource, and the electricity produced will remain with the Navy.



VISITOR FROM PAX RIVER — Capt. Dwight Timm, Deputy Commander of the Naval Air Test Center at Patuxent River, Md., visited China Lake recently for briefings on a wide variety of projects and a look at some of the equipment and facilities used at NWC — one of the Navy's major research and development organizations working on weapons to meet current defense needs and preparing for the advanced weapon concepts and technology that will be required in the future. As this photo was snapped Capt. Timms was in the Microelectronics Laboratory where he was using a high-power microscope to examine a hybrid microcircuit that is a component of the Standard missile fuse. With the visitor is Pat Nalley, who is in charge of the Hybrid Circuit Section of the Microelectronics Branch of the NWC Fuze and Sensors Department. — Photo by Don Cornelius

Enrollment being accepted in Pre-retirement Planning Seminar

Enrollments are now being accepted for a Pre-retirement Planning Seminar that will begin on Thursday, April 8, and continue through May 20.

Most of the sessions (except the one on "Planning for a Successful Retirement") will be 1½ to 2 hours in duration and will be held once a week. The "Planning for a Successful Retirement" session will be an all-day workshop. The total amount of time required for the seven-week seminar is 16 hours.

The seminar is intended for Naval Weapons Center civilian employees who are planning to retire within the next five years. Spouses of enrollees are also encouraged to attend.

The course is designed to provide a wide

range of information on such subjects as tax regulations, the Civil Service Retirement System, Social Security and Medicare, legal matters, health maintenance, and a special workshop designed around enrollee participation in planning for various aspects of retirement.

In addition, one of the sessions, "The Real World of Retirement — from a Retiree's Perspective" will be presented by a former NWC employee who is now retired.

Employees interested in attending this seminar should submit a training request and authorization form via appropriate department channels in time for it to reach Code 094 by March 26. The seminar will be limited to 50 employees.

Those interested in the Pre-retirement Planning Seminar also are asked to indicate the approximate date of retirement on their training request.

Further information can be obtained by calling Nancy Cleland at NWC ext. 2018 or 2592.

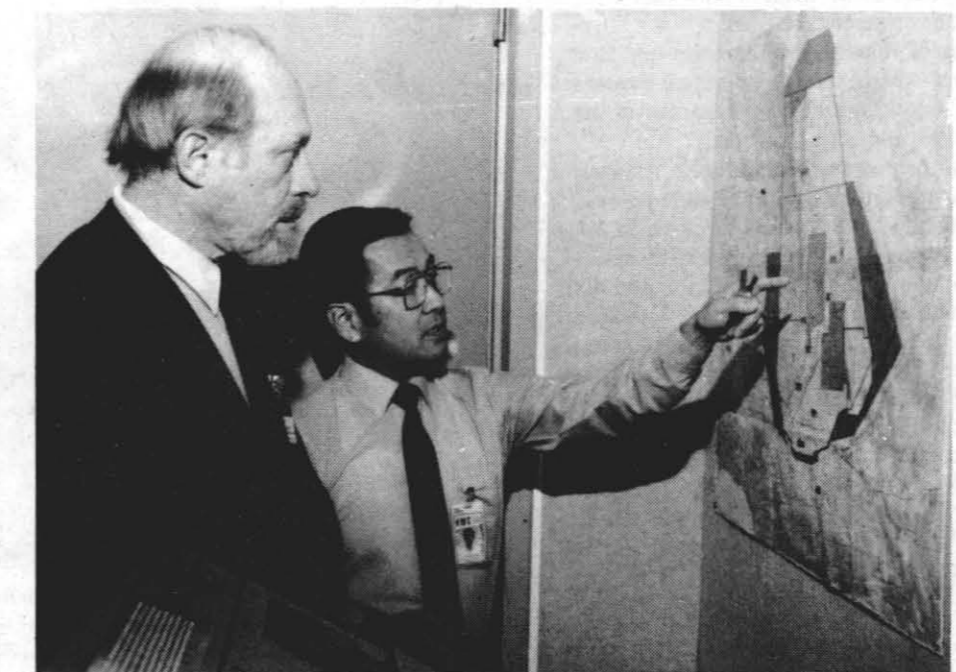
ASQC schedules talk on quality control in real estate matters

A dinner meeting of the Sierra Sands Section of the American Society for Quality Control (ASQC) will be held next Thursday, March 18, in observance of California Quality Week (March 14-20).

The dinner, which is open to all interested persons, will be held at Clancey's Claim Co. restaurant in Ridgecrest. A social hour will precede the 7 p.m. meal, and a program featuring a talk on "Quality Control of Real Estate Transactions" will follow.

The speaker will be Bernard Connolly, former head of the NWC Technical Information Department, who is now a real estate broker in Ridgecrest.

For planning purposes, reservations are requested and can be made by calling either Tony Miller at 446-2589 or Bud Stiehl at 446-5528.



HERE FOR BRIEFINGS — Dr. Jules Enig (at left), Director of Planning and Assessment for the Naval Material Command's Office of Naval Technology, visited the Naval Weapons Center recently for two days of briefings on NWC's weapons test and evaluation activities. As this photo was taken, Dr. Enig was being provided with information on the new Range Control Center by Larry Tsubakihara, head of the RCC Program Office. The two men are looking at a map of the NWC range area, which the visitor from Washington, D.C., toured by helicopter. — Photo by Don Cornelius