

### Chief Petty Officers' luau attracts hundreds



COME DANCE WITH ME — More than 300 people turned out this past Saturday evening for the CPO club's annual luau. Girls in native Hawaiian costumes are inviting members of the audience to come and learn the hula.



YUM-YUM — In preparation for the festivities, volunteers for the CPO club luau hoist a 200 lb. Emu (pig) into a hot lava pit covered with banana leaves and banana stalks; it was just one of a variety of foods served at the Hawaiian style buffet.



GREAT BALLS OF FIRE — Pete Seanoya, a member of the Tiare Productions group, performs a Polynesian fire dance that delights the audience.

SITTING PRETTY — These four dancers dressed in grass skirts and headdresses were part of Tiare Productions authentic Tahitian extravaganza.

Photos by  
Ron Allen



Commissioned Officers' Mess  
Monday, September 3, the Commissioned Officers' Mess invites all members of the pool and their house guests to a "thank you for enjoying our club facilities" party.

The party will begin at 1 in the afternoon and continue until 3 with the COM staff serving free hot dogs, soda pop and beer to everyone in attendance.

Scheduled for Tuesday, September 4, at the COM will be an "Islands Dinner" featuring such culinary delights as charcoal broiled Samoan chicken, and Hawaiian charcoal broiled trout.

Dining hours for Islands Night will be from 6 to 9 p.m.

### Calendar

Sept. 6 — Welcome aboard National Parachute Test Range personnel, 5:30 to 7 p.m. at the Commissioned Officers' Mess.

### Metal Trades Council sets meeting Sept. 6

The Indian Wells Valley Metal Trades Council will hold its next regular meeting on Thursday, Sept. 6, at 65-B Halsey Ave., China Lake. The meeting will get underway at 7:30 p.m.

The Council is the representative of a unit composed of the Center's non-supervisory ungraded civilian employees who are located at China Lake.

**MOVIES**

ALL AGES ADMITTED  
General Audiences  
PG: ALL AGES ADMITTED  
Parental Guidance Suggested  
Some Material May Be Inappropriate  
R: RESTRICTED  
Under 17 requires accompanying Parent or Adult Guardian

Regular starting time — 7:30 p.m.  
For synopsis information call  
Code-O-Phone 939-2411

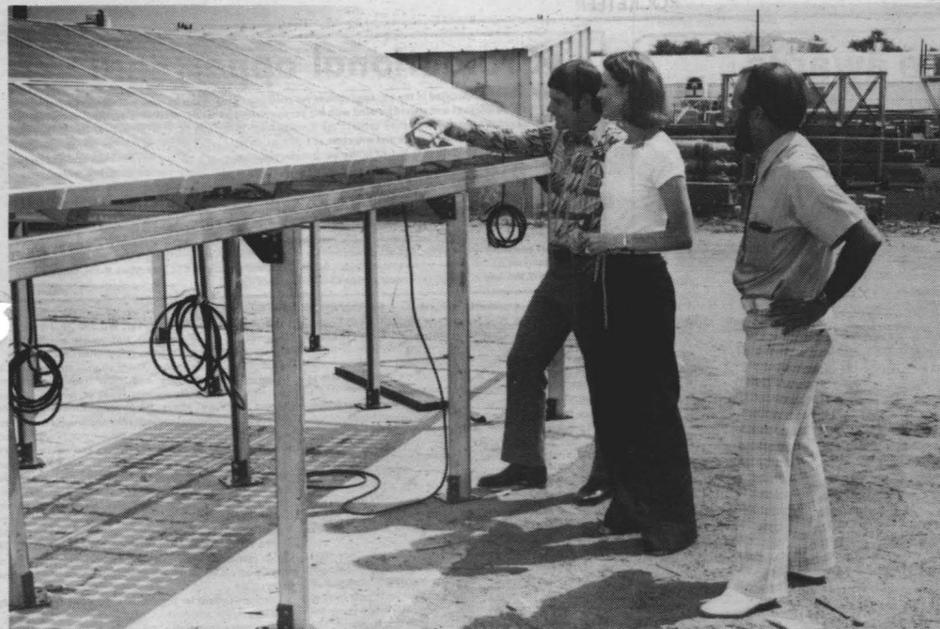
FRIDAY	AUGUST 31
"SATURDAY NIGHT FEVER"	
Starring John Travolta (Musical-drama, rated R, 125 min.)	
SATURDAY	SEPT. 1
"PINOCCHIO"	
(Animated cartoon, rated G, 95 min.)	
TUESDAY	SEPT. 4
"THE CHAMP"	
Starring John Voight and Faye Dunaway (Action-drama, rated PG, 123 min.)	
WEDNESDAY	SEPT. 5
"CALIFORNIA DREAMING"	
Starring Glynnis O'Connor and Seymour Cassel (Comedy-drama, rated R, 100 min.)	
FRIDAY	SEPT. 7
"COMA"	
Starring Michael Douglas and Elizabeth Ashley (Suspense-drama, rated PG, 113 min.)	
SATURDAY	SEPT. 8
"NORMA RAE"	
Starring Sally Field and Ron Liebman (Social-drama, rated PG, 115 min.)	

U.S. Government Printing Office  
1979—No. 42

From: \_\_\_\_\_

PLACE STAMP HERE

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



USING THE SUN — Garyl Smith, who manages the local photovoltaic program, shows arrangement of solar cells in panels to Elaine Smith, Department of Energy, head of the Federal Photovoltaic Utilization Program, while Dick Fulmer, head of the NWC Energy Program Management Office looks on. The Naval Weapons Center is lead laboratory for the Navy's photovoltaic

program. The photovoltaic arrays currently being assembled in the Public Works complex will be checked out there and then transported to remote sites throughout the Center where they will provide sun-generated electricity to power radio repeaters and other electric equipment. NWC has long been involved in photovoltaic studies. — Photo by Ron Allen



## nwc rocketeer

Naval Weapons Center  
China Lake  
California

August 31, 1979

Vol. XXXIV, No. 35

### 'Never Undersold' policy being instituted by Navy Exchanges at China Lake, Long Beach

The Navy Exchanges at China Lake and Long Beach have implemented a "Never Undersold" program to provide authorized patrons merchandise at the lowest practical price.

In the past patrons have reported that they are able to purchase some merchandise offered by the NEX at a lower price from civilian sources.

From now on, to take advantage of the new program, the patron must simply bring

to the NEX a dated, local advertisement from a newspaper or other source that verifies that the Exchange item is more expensive than the identical item depicted in the advertisement.

The patron will then be sold the item at the lower advertised price.

Ltjg. Robert Boyd, NEX officer, said this policy is applicable only for identically matched items. The model advertised must match the model sold in the Exchange. Also the price, not a discount percentage, must be clearly stated in the advertisement.

If the item is normally carried in the NEX but is temporarily out of stock, a raincheck

will be given to the customer so that he might still take advantage of the sale price.

Ltjg. Boyd said that at China Lake the "Never Undersold" program is applicable at the main retail store, the Annex store, and the service station auto accessory store. Because of the extensive industry-wide loss leader practice regarding food prices, all food items are excluded from this policy as is gasoline. However, beer and soda are included under the program.

Areas of the Exchange which are specifically excluded from the "Never Undersold" policy include Personalized Services and all snack bar locations.

### NWC landowners are invited to make contact with P.W.

Recent articles in the Rocketeer and the local press described contract efforts now underway to appraise and survey private property beneath the low-level aircraft approaches to "C" and "G" ranges.

These continuing planning efforts are in support of a proposed Military Construction project tentatively programmed in FY 1981.

As part of the contract effort, names and addresses of the owners of each of the affected parcels will be identified, so that direct contact may be made.

All NWC employees who own land in the affected area and who wish to make themselves known in advance are invited to contact Bob Barling at Public Works, telephone 3411, extension 408. In addition to name, address, and telephone number, information which will identify the parcel or parcels of land would be helpful.

Information will be provided by direct mailing to parcel owners as the planning for the project continues.

### Varied program offered during Hispanic week

Plans were announced this week for special events that will mark the local observance of National Hispanic Heritage Week, which is to be celebrated Sept. 10 through 16.

Activities that have been arranged by the Naval Weapons Center's Hispanic Employment Program will begin with a training class on Tuesday, Sept. 11, followed by a luncheon on Thursday, Sept. 13, and ending with a dinner-dance sponsored by Los Amigos Hispanos, the local Hispanic organization.

The latter event will be held on Saturday, Sept. 15, at the Ridgecrest Elks Lodge. Dinner will be served from 7 to 8:30 p.m., and music will be provided by the "The Night Owls" band from 9 p.m. to 1 a.m. "Our Hispanic Heritage" will be the subject of the Equal Employment Opportunity (EEO) training class that has been scheduled from 9 to 11:30 a.m. on Sept. 11 at the Community Center.

The guest speaker at this workshop will be Dr. Domingo Nick Reyes of Domingo Nick Reyes and Associates of Alexandria,



Dr. Domingo Nick Reyes

Va. Dr. Reyes is a manager, communications and media consultant and educational technologist with a wide range of experience in both the private and public sector.

Dr. Reyes has represented many national Hispanic-American community organizations in the Washington area. He also serves on numerous boards and committees as a public affairs and community relations advisor.

Guest speaker at the luncheon at the Enlisted Mess on Sept. 13, will be David Rosales, head of the Chicano Cultural Center at Bakersfield College. The luncheon menu, served from 11:30 a.m. to 1 p.m., will consist of chiles rellenos, refried beans, Spanish rice and flour tortillas at a cost of \$2.50 per person. Reservations must be placed with the NWC EEO office by Sept. 10, by calling NWC Ext. 2738.

Four hours of EEO training credit will be given to employees who attend both the training session and the luncheon at the Enlisted Mess.

### Open Letter

To Our Military and Civilian Family: The children and I and our families deeply appreciate your many expressions of sympathy and friendship. It has comforted us all to have the support and love of so many people at this time.

To those of you who are signing the petition to change the name of Ridgecrest Heights School acknowledging my husband's efforts to avoid the school and residential area — our heartfelt thanks. We feel very honored to think that his name may be remembered in this way.

Betty Falter



GETTING BRIEFED — Admiral James D. Watkins, the prospective Vice Chief of Naval Operations, received a briefing from the Sidewinder family of weapons from Norman Woodall during his visit to the Naval Weapons Center on Monday. Admiral Watkins met with senior NWC officials to receive an overview of current projects and operations. — Photo by Ron Allen

### Employee service awards

The following Naval Weapons Center employees have received Federal service or NWC length-of-service awards:

 Jerome L. Zaharias 20 yrs. Fed'l & NWC Service Code 3132	 Charles M. Nilsen 30 yrs. NWC Service Code 6237	 Cecil T. Daley 30 yrs. Fed'l Service Code 6232	 Cecil A. Glass 30 yrs. NWC Service Code 3263
 L. R. Haugen 20 yrs. NWC Service Code 3942	 Frank W. Peck 35 yrs. Fed'l & NWC Service Code 6211	 James E. Farmer 35 yrs. Fed'l Service Code 6211	 Frederick H. Davis 30 yrs. Fed'l Service Code 3820
 Donald W. Moore 30 yrs. Fed'l Service Code 3851	 Frank S. Driggers 25 yrs. Fed'l & NWC Service Code 3263	 Thomas E. Crookshanks 30 yrs. NWC Service Code 3254	 Curtis A. Hamilton 20 yrs. Fed'l Service Code 6231

### Vehicle operators asked to drive safely over Labor Day weekend

On Labor Day weekend, even with the high cost of gasoline, there will be more vehicles on the roads than usual because drivers will be taking advantage of the last holiday before the start of school.

Among the various situations drivers should be aware of to avoid accidents and to come back to China Lake safely after the holiday are not watching the speed at which they drive, and not watching out for the other vehicle operator who may contribute to them getting into an accident.

Speed is the number one factor in accidents. Not only can high speeds be a problem, but speeds too fast for conditions also contribute to accidents.

In one accident report the driver made the statement, "but I was only going 25 mph when this kid darted out from the side of the street and I was unable to stop in time." The driver of a vehicle must always be alert and realize that sometimes even a slow speed

may be too fast for the situation.

Whatever the problem, kids, heavy winds, sand on the road, sun in the eyes or rain, drivers should slow down to handle the situation safely.

The driver or operator of any vehicle, bicycle, moped, motorcycle, car or truck, has the responsibility for the safe handling of that vehicle at all times. Each and every driver accepts this responsibility when he or she is licensed to operate a vehicle on streets or roadways.

When you are traveling over the Labor Day weekend pull of the road and stop if you have to check a map, tend a child or if there is an insect in the car. In addition, plan your trip so you will get adequate rest. If you do become tired or sleepy, pull off the road into a rest stop or service station to rest before you proceed on your journey.

"Always drive so that your license will expire before you do."

### Promotional opportunities

Unless otherwise specified in the ad, applications for positions listed in this column will be accepted from current NWC employees and should be filed with the person named in the ad. All others desiring employment with the Naval Weapons Center may contact the Employment-Wage and Classification Division, Code 092, Ext. 2049. Ads will run for one week and will close at 4:30 p.m. on the Friday following their appearance in this column, unless a later date is specified in the ad. Employees whose work history has not been brought up to date within the last six months are encouraged to file a Form 171 or 172 in their personnel jacket. Information concerning the Merit Promotion Program and the evaluation methods used in these promotional opportunities can be obtained from your Personnel Management Advisor (Code 094 or 097). Advancing positions in the Promotional Opportunities column does not preclude the use of alternate recruiting sources in filling these positions. As part of the rating process, a supervisory appraisal will be sent to the current supervisor and the most recent previous supervisor of those applicants rated as basically qualified. The Naval Weapons Center is an equal opportunity employer and selection shall be made without discrimination for any nonmerit reason. The minimum qualification requirements for all GS positions are defined in CSC Handbook X-116, while those for all WG, WL and WS positions are defined in CSC Handbook X-118C.

**Employee Development Clerk, GS-203-4, PD No. 7909022, Code 094** — This is a temporary position NTE 1 year, located in the Employee Development Division, Personnel Department. The incumbent performs registrar duties in support of the Center's Professional and Technical Development Programs. Duties include preparing course announcements, training agreements, class rosters, receiving and processing enrollment forms, arranging space for classes. Incumbent also maintains fiscal records and prepares procurement requests and codes information for input into employees' training records. Job Relevant Criteria: Ability to deal tactfully and effectively with all levels of NWC employees; ability to work under stress and pressure; ability to plan, organize and accomplish work independently; ability to perform a variety of clerical functions; ability to type accurately and efficiently; ability to comprehend and apply regulatory information. Promotion potential to GS-5.

**Engineering Aide, GS-802-3, PD No. 792014N, Code 4214** — The position is located in the Range Engineer Section, Air Operation Branch, Range Operations Division, Range Department. The incumbent will assist in the conduct of ground and air operations of range tests and insure the safety of personnel participating in these operations. The incumbent will monitor the operation of aircraft and ground ranges, record all personnel entering the range and advise the responsible Range Engineers of any hazards. On all G-1 Range tests, the incumbent will monitor personnel engaged in the operations of opto-mechanical data recording devices, electronic trajectory measuring systems, and telemetry equipment. Job Relevant Criteria: Ability to communicate effectively both orally and in writing; knowledge of basic mathematical principles; knowledge of safety practices. Potential to GS-11. Previous applicants need not reapply.

**Electronics Engineer, GS-855-11/12, PD No. 7920263, Code 4241** — This position is located in the Telemetry Systems Branch, Range Department. Duties are design and development of telemetry systems and associated instrumentation, maintain expertise in environmental instrumentation for airborne and ground systems, development of test methods and evaluation testing. Job Relevant Criteria: Experience with telemetry systems; experience with analog and digital systems; design and associated test equipment; ability to effectively present data orally and in writing.

**Aerospace Engineering Technician, GS-802-7, PD No. 794030N, Code 4411** — As a member of the Engineering Investigation Branch of the Parachute Systems Department, the incumbent will provide technical documentation support for the entire department. This will entail preparing and maintaining drawings for production equipment, experimental devices and test equipment as part of design disclosure documentation. Incumbent will review formal documentation and drawings developed by contractor support personnel and also perform occasional on-site investigations and failure analysis to identify technical design defects. Promotion potential to GS-9. Job Relevant Criteria: Knowledge of documentation procedures; ability to work effectively in a team situation. File applications for the above with Bonnie Owens, Bldg. 34, Rm. 204, Ph. 2577.

**Secretary (Typing), GS-318-4/5, PD No. 7712002, Code 12** — This position is located in the Weapons Planning Group and reports to the Program Director for R & D Planning. Major duties include receiving visitors, telephone calls and mail; typing official correspondence, travel orders, security clearances and itineraries; scheduling conferences and meetings; and maintaining supervisor's calendar and files. Job Relevant Criteria: Must be proficient typist; must have thorough knowledge of Center clerical procedures; must be able to deal with a wide variety of clerical and administrative procedures.

**Interdisciplinary - Electronics Engineer, Mechanical Engineer, Aerospace Engineer, Physicist, GS-855-830-641-1310-9/11, PD No. 7939071, Code 39082** — This position is located in the Missile Development Office of the Sparrow Program Office, Weapons Department. The current primary effort of the Missile Development Office is to support the Full Scale Development of the Sparrow variety aircraft. Knowledge of principles of guided missile systems; ability to communicate effectively orally and in writing; ability to deal effectively with a variety of personnel. Promotion potential to GS-12. Promotion potential is subject to development of progressively higher level responsibilities.

**Secretary (Typing), GS-318-5, PD No. 7531030, Code 3908** — This position is located in the Sparrow Program Office, Weapons Department. The incumbent provides a variety of duties for the supervisor such as maintaining his calendar, setting up appointments and meetings, receiving and screening visitors and phone calls; receiving, opening and screening all mail; reviewing all outgoing correspondence for proper format and typographical errors; and arranging for travel. In addition, incumbent types a variety of correspondence, reports, viewgraphs, and memoranda from hand written drafts. Job Relevant Criteria: Ability to type efficiently and accurately; thorough working knowledge of grammar, spelling, and punctuation; working knowledge of proper format for reports and correspondence; ability to work independently and exercise personal judgement and diplomacy. File applications for the above with Kitty Berry, Bldg. 34, Rm. 204, Ph. 2723.

**Sheet and Plate Metal Worker, WG-3801-11, JD No. 51, Code 24411** — (Two positions). Positions are located in the Metal Shop, Public Works Department. Incumbent is responsible for the layout, fabrication, assembly and installation of prototypes and experimental parts and equipment made from various types of ferrous and non ferrous metal and alloys. Performs electrical arc welding, oxyacetylene welding, radio graph machine cutting. Uses a wide variety of hand tools and power machines for such processes as bending, forming, fitting and welding. Works with many different commercial stock shapes and forms ranging from light gauges to heavy steel plate. Job Relevant Criteria: Knows and understands electrical design; development; ability to cut materials pertinent to the trade; ability to braze, solder, spot weld and gas weld; ability to use hand and power equipment (braking, forming, fastening, etc.); reading blueprints; ability to do sheet and plate metal work without more than normal supervision.

File applications for the above with Lucy Lambert, Bldg. 34, Rm. 212, Ph. 2032.

**Electronics Technician, GS-854-12, PD No. 7931144, Code 3141** — This position is located in the Inertial Systems Branch, Avionics Division, Systems Development Department. It is primarily engaged in the operation of Navigation Systems Integration Laboratory. Associated with the laboratory functions are: statistical design, tests and evaluates computer related hardware and interfaces devices associated with aircraft inertial navigation systems. Job Relevant Criteria: Knowledge of electronic and digital hardware; knowledge of current inertial navigation development; ability to apply electronics experience to design and development of specialized equipment for avionics and inertial systems.

**Mathematics Technician, GS-1521-4, PD No. 7931143, Code 3182** — This position is located in the Fuze Evaluation Branch: Survivability and Lethality Air Targets Division, Systems Development Department. The incumbent participates as a member of teams responsible for investigating ordnance system requirements and capabilities, including fuze optimization analyses, ordnance system effectiveness studies, statistical analyses and warhead effects analyses. The incumbent modifies computer programs to conduct specific analyses, writes new programs as the need arises, the data required and summarizes the data and results in either oral or written form. Job Relevant Criteria: Knowledge of higher level mathematics; knowledge of digital computer programming; ability to communicate effectively orally and in writing.

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

**Mail and File Clerk, GS-305-3/4, PD No. 7933023N, Code 33** — Applications will be accepted from status eligibles. This position is located in the Support Center of the Fuze and Sensors Department. Incumbent serves as Mail and File Clerk and Custody Control Point for the Fuze and Sensors Department. Duties include: receives and processes incoming and outgoing mail and messages; reads, studies, sorts and distributes incoming mail and

### DIVINE SERVICES

- PROTESTANT** 1000  
Sunday Worship Service 0830  
Sunday School - All Ages 0830  
Sunday School Classes are held in Chapel Annexes 1, 2, 4, (Dorms 5, 6, 8) located opposite the former Center Restaurant.  
Communion Service first Sunday of the Month.
- ECUMENICAL** 1130  
Wednesday Noon Bible Study 1130  
Thursday Men's Prayer Breakfast 0630
- ROMAN CATHOLIC**  
MASS 1700 fulfills Sunday obligation 0830-1130  
Nursery, Chapel Annex 1 0815-1245  
Daily except Saturday, 1135. Blessed Sacrament Chapel.
- CONFESSIONS** 1115 to 1130  
Saturday 1615 to 1645  
Sunday 0800 to 0825
- RELIGIOUS EDUCATION CLASSES** 1000  
Sunday Pre-school thru 11th grade  
Above classes are held in the Chapel Annexes across from the former Center Restaurant.  
Sunday afternoon 12th grade 1630  
As announced "In Home" Discussion Groups and Youth Rallies  
Contact Chaplain's Office for specifics.
- JEWISH SERVICES**  
EAST WING - ALL FAITH CHAPEL 1930  
Sabbath Services every Friday  
UNITARIAN  
CHAPEL ANNEX 95 1930  
Sunday Services - (Sept. May)

### Dr. Stewart helping employees to cope with personal problems here

By Ernest R. Sutton  
"I am here to help human people with human problems, not to treat sick people. It is normal for people to have problems in everyday living," states Dr. David A. Stewart of the Desert Counseling Clinic.

Dr. Stewart, teacher, philosopher and author of more than 30 publications, is available to military and civilian personnel with problems under the Employee Assistance Program (EAP) at the NWC Training Center parts of three days a week. Counseling services are offered here by Dr. Stewart on Monday and Friday afternoons and all day Wednesday. In addition, he holds two weekly seminars every Wednesday at 11:30 a.m., and 4:45 p.m.

The first one at 11:30 is a drop in seminar that everyone can attend to share fellowship for a caring experience. Those attending are encouraged to bring brown bag lunches.

**Sobriety Freedom Training**  
The second seminar "Sobriety Freedom Training," begins at 4:45 p.m. The course is not limited to those with alcohol or drug problems, but is open to anyone who wants to gain insight into ways and means to cope with these problems.

The assistance that Dr. Stewart has provided at NWC during his 1 1/2 years here marks a departure from the program that was offered before he came aboard.

"The previous requirement in this position was mostly to counsel with alcoholics. I'm available for counseling on all kinds of problems, including alcohol, drug, emotional and personal problems. An employee with problems can not be a productive worker.

"It is not a question of being sick, sick, sick. Just through the act of living we all have problems. We have to learn how to deal with them and to realize we are not unique. Others have problems too," Dr. Stewart said.

### School begins...

(Continued from Page 2)  
messages; responsible for receipt, distribution and accountability of classified documents; maintains department files. Job Relevant Criteria: Knowledge of agency and U.S. Postal Service regulations; knowledge of security regulations and procedures; knowledge of filing procedures; knowledge of records management procedure and policies; knowledge of Department and Center organizations.

**Quality Inspection Specialist (Electronics), GS-1940-10, PD No. 7933023N, Code 233102** — Applications will be accepted from status eligibles. This position is located in the Component Evaluation Section, Sensor Systems Division, Fuze and Sensors Department. As head of the Component Evaluation Section incumbent will: prepare test plans and outline tests to be performed; prepare inspection procedures and acceptance requirements; develop procedures for acceptance testing; select and specify test equipment; design interconnecting, control and metering circuitry, etc. for acceptance of cable assemblies, for microwave tube evaluation, for component qualification testing and for quality assurance inspections. Incumbent will also assist in preparation of specifications for microwave oscillators. Job Relevant Criteria: Knowledge of electronic theory and components; ability to use electronic test equipment; ability to select and perform appropriate tests; ability to communicate both oral and in writing.

File applications for the above with Susie Cross, Bldg. 34, Rm. 210, Ph. 2371.

**Visual Information Specialist, GS-1084-11, PD No. 7933014E, Code 2441** — This position will be accepted from status eligibles. This position is located in the Illustration and Design Branch, Graphics Arts Division, Technical Information Department. Incumbent designs multiview presentations for NWC customers, including those which require animation. Occasionally he/she will be called upon to produce illustrations and designs for publications. Job Relevant Criteria: Ability to communicate verbally; ability to communicate visually, technical and abstract subject matter; ability to design and create artwork, including animation; knowledge of publication art and offset printing processes.

**Supervisory Audio-Visual Production Specialist, GS-1071-12, PD No. 792011E, Code 3442** — This position is Head, Presentation Development Branch, Presentation Division, Technical Information Department. Incumbent supervises the production of mixed-media presentations and the provision of other audiovisual support to ad management and project personnel. He/she personally produces a regular multi-media presentation on key Center programs and a variety of single media presentations. Job Relevant Criteria: Skill in planning and developing multiview audio-visual productions; ability to supervise; ability to meet and deal effectively with top managers and project personnel; ability to communicate effectively orally and in writing.

**Editorial Assistant, GS-1087-5, PD No. 7553080N, Code 3442** — This position is in the Composition and Layout Branch, Graphic Arts Division, Technical Information Department. The incumbent composes and lays out copy ready material for publication. He/she records manuscripts on magnetic tape; proofreads types copy; designs layouts; integrates line or half-tone figures; runs off galleys, and marks repro with instructions for print

Stewart said.

It is necessary to revive the spirit of fellowship, Dr. Stewart says. The old civilization as it used to be, a neighbor on the sidewalk talking to a neighbor on the porch in a rocking chair... this fellowship is disappearing. Instead of talking to people at the market, people now line up and get pushed by pressure from behind and at the supermarket cash register.

"A revival of our fellowship means to share our common humanity," Dr. Stewart continued. "Without fellowship, we turn to self trips and self trips lead to trouble. Active empathy needs another person because the basic unit of human behavior is friendship."

Dr. Stewart also claims that the lack of fellowship can lead to other addictions besides drugs and alcohol. "Love disorders can be an addiction. This does not refer to sex. Someone with love-disorder has something wrong in his or her capacity to relate to other human beings," he said.

While at the Training Center, Dr. Stewart first sees employees on a one-to-one basis, then as each employee is ready for group sessions, he has them become a member of a group. "This is my theory. Humans are community people and it is easier and a lot better to get used to a community setting," he stated.

Recently Dr. Stewart received a letter of appreciation from Lynn Dodson Lacey, the EAP Advisor, for giving freely of his time, energy, and expertise to those Center employees with problems. "Your willingness to be available to Center employees after normal working hours including weekends has resulted in timely intervention in critical life or death situations," Lacey said.

Dr. Stewart, a U.S. citizen since 1965, was born in New Brunswick, Canada. He got



**PLANNING FALL PROGRAMS** — Dr. David A. Stewart (center) of the Desert Counseling Clinic, discusses plans for fall Employee Assistance Programs (EAP) at the Training Center with Lynn Dodson Lacey, EAP Advisor, and with Carol Corlett, EAP assistant, during a recent meeting. Dr. Stewart is available to NWC military and civilian personnel with problems of any nature.

his BA degree in philosophy and social sciences from Dalhousie University in Halifax in 1932, and earned master's and doctoral degrees in philosophy at Toronto University in 1933 and 1939, respectively. In addition, he has studied at Marburg University in Germany, at the University of Edinburgh in Scotland, and in this country at both Yale and Rutgers Schools of Alcoholism.

Before coming to the Desert Counseling Clinic, Dr. Stewart held a variety of positions including director and consultant on the Alcoholism Program at Brighton, Mich.; director of the alcoholism program in San Bernardino; director of Harmony Foundation, Inc., in Estes Park, Colo.; chief clinical psychologist, San Louis Obispo County General Hospital; psychology lecturer at University of Santa Barbara; and clinical psychologist, Atascadero State Hospital.

During World War II, he served as an officer in the Royal Canadian Air Force and

later in the Canadian Army Expeditionary Forces as a counselor and psychotherapist. Dr. Stewart's publications include papers for the Quarterly Journal of Studies on Alcohol, published by Yale and Rutgers Universities; the Psychoanalytic Review, New York; the Philosophical Library, New York; and the Journal of Social Therapy, New York. Some of his books are "Money, Power and Sex," "How To Be a Better Boozer," "High on a Dream," and "Thirst for Freedom." The last is a best seller and has been published in both Canada and the United States.

He expects his latest book, "Free Love," a study of addiction and fellowship, to be on the bookstands by December of this year. Dr. Stewart simplifies most of the problems of mankind saying it is all tied up in one word, "others."

"The ability to free oneself from one's own problems by putting oneself in the place of others, can change a person's entire life," Dr. Stewart concluded.

### Promotional Opportunities

(Continued from Page 2)

**Administrative Assistant, GS-341-7, PD No. 7935092N, Code 3553** — This position is located in the HARM/Standard ARM Technical Management Office, Electronic Warfare Department. An incumbent provides administrative services support to the office in areas of financial management, personnel, contract administration, and a range of miscellaneous administrative tasks. Typical of the tasks are: preparation of budget submittals; control of agency funds; preparation of personnel action requests and office training plans; and administration of contract work in documentation/ILS/reliability-maintainability/QA/programming support. General administrative duties involve: the plant account, preparation of AV needs, space/equipment management, security and safety compliance. Job Relevant Criteria: Knowledge of agency and U.S. Postal Service regulations; knowledge of security regulations and procedures; knowledge of filing procedures; knowledge of records management procedure and policies; knowledge of Department and Center organizations.

**Quality Inspection Specialist (Electronics), GS-1940-10, PD No. 7933023N, Code 233102** — Applications will be accepted from status eligibles. This position is located in the Component Evaluation Section, Sensor Systems Division, Fuze and Sensors Department. As head of the Component Evaluation Section incumbent will: prepare test plans and outline tests to be performed; prepare inspection procedures and acceptance requirements; develop procedures for acceptance testing; select and specify test equipment; design interconnecting, control and metering circuitry, etc. for acceptance of cable assemblies, for microwave tube evaluation, for component qualification testing and for quality assurance inspections. Incumbent will also assist in preparation of specifications for microwave oscillators. Job Relevant Criteria: Knowledge of electronic theory and components; ability to use electronic test equipment; ability to select and perform appropriate tests; ability to communicate both oral and in writing.

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**Supervisory Audio-Visual Production Specialist, GS-1071-12, PD No. 792011E, Code 3442** — This position is Head, Presentation Development Branch, Presentation Division, Technical Information Department. Incumbent supervises the production of mixed-media presentations and the provision of other audiovisual support to ad management and project personnel. He/she personally produces a regular multi-media presentation on key Center programs and a variety of single media presentations. Job Relevant Criteria: Skill in planning and developing multiview audio-visual productions; ability to supervise; ability to meet and deal effectively with top managers and project personnel; ability to communicate effectively orally and in writing.

**Editorial Assistant, GS-1087-5, PD No. 7553080N, Code 3442** — This position is in the Composition and Layout Branch, Graphic Arts Division, Technical Information Department. The incumbent composes and lays out copy ready material for publication. He/she records manuscripts on magnetic tape; proofreads types copy; designs layouts; integrates line or half-tone figures; runs off galleys, and marks repro with instructions for print

shop. Job Relevant Criteria: Skill in operation of magnetic tape input and output equipment; skill in proofreading; knowledge of technical nomenclature; skill in preparing layouts. Position could lead to Visual Information Assistant, GS-1001-07, but promotion is not guaranteed.

File applications for the above with Linda Bego, Bldg. 34, Rm. 208, Ph. 3118.

**Administrative Assistant, GS-341-7, PD No. 7935092N, Code 3553** — This position is located in the Threat Radar Eval/Dev Branch, Countermeasures Division, Electronic Warfare Department. The incumbent provides administrative services support to the office in areas of financial management, personnel, contract administration, and a range of miscellaneous administrative tasks. Typical of the tasks are: preparation of budget submittals; control of agency funds; preparation of personnel action requests and office training plans; and administration of contract work in documentation/ILS/reliability-maintainability/QA/programming support. General administrative duties involve: the plant account, preparation of AV needs, space/equipment management, security and safety compliance. Job Relevant Criteria: Knowledge of agency and U.S. Postal Service regulations; knowledge of security regulations and procedures; knowledge of filing procedures; knowledge of records management procedure and policies; knowledge of Department and Center organizations.

**Quality Inspection Specialist (Electronics), GS-1940-10, PD No. 7933023N, Code 233102** — Applications will be accepted from status eligibles. This position is located in the Component Evaluation Section, Sensor Systems Division, Fuze and Sensors Department. As head of the Component Evaluation Section incumbent will: prepare test plans and outline tests to be performed; prepare inspection procedures and acceptance requirements; develop procedures for acceptance testing; select and specify test equipment; design interconnecting, control and metering circuitry, etc. for acceptance of cable assemblies, for microwave tube evaluation, for component qualification testing and for quality assurance inspections. Incumbent will also assist in preparation of specifications for microwave oscillators. Job Relevant Criteria: Knowledge of electronic theory and components; ability to use electronic test equipment; ability to select and perform appropriate tests; ability to communicate both oral and in writing.

File applications for the above with Susie Cross, Bldg. 34, Rm. 210, Ph. 2371.

**Visual Information Specialist, GS-1084-11, PD No. 7933014E, Code 2441** — This position will be accepted from status eligibles. This position is located in the Illustration and Design Branch, Graphics Arts Division, Technical Information Department. Incumbent designs multiview presentations for NWC customers, including those which require animation. Occasionally he/she will be called upon to produce illustrations and designs for publications. Job Relevant Criteria: Ability to communicate verbally; ability to communicate visually, technical and abstract subject matter; ability to design and create artwork, including animation; knowledge of publication art and offset printing processes.

**Supervisory Audio-Visual Production Specialist, GS-1071-12, PD No. 792011E, Code 3442** — This position is Head, Presentation Development Branch, Presentation Division, Technical Information Department. Incumbent supervises the production of mixed-media presentations and the provision of other audiovisual support to ad management and project personnel. He/she personally produces a regular multi-media presentation on key Center programs and a variety of single media presentations. Job Relevant Criteria: Skill in planning and developing multiview audio-visual productions; ability to supervise; ability to meet and deal effectively with top managers and project personnel; ability to communicate effectively orally and in writing.

**Editorial Assistant, GS-1087-5, PD No. 7553080N, Code 3442** — This position is in the Composition and Layout Branch, Graphic Arts Division, Technical Information Department. The incumbent composes and lays out copy ready material for publication. He/she records manuscripts on magnetic tape; proofreads types copy; designs layouts; integrates line or half-tone figures; runs off galleys, and marks repro with instructions for print

software algorithms; experience in radar receiver design; experience as a project engineer on radar signal processing subsystems; and experience as a system engineer of complex RF emitter simulators as applied to test of avionics equipment and/or missile guidance systems.

**Electronics Technician, GS-854-11, PD No. 7835031N, Code 3553** — This position is in the Threat Radar Eval/Dev Branch, Countermeasures Division, Electronic Warfare Department. The incumbent provides administrative services support to the office in areas of financial management, personnel, contract administration, and a range of miscellaneous administrative tasks. Typical of the tasks are: preparation of budget submittals; control of agency funds; preparation of personnel action requests and office training plans; and administration of contract work in documentation/ILS/reliability-maintainability/QA/programming support. General administrative duties involve: the plant account, preparation of AV needs, space/equipment management, security and safety compliance. Job Relevant Criteria: Knowledge of agency and U.S. Postal Service regulations; knowledge of security regulations and procedures; knowledge of filing procedures; knowledge of records management procedure and policies; knowledge of Department and Center organizations.

**Quality Inspection Specialist (Electronics), GS-1940-10, PD No. 7933023N, Code 233102** — Applications will be accepted from status eligibles. This position is located in the Component Evaluation Section, Sensor Systems Division, Fuze and Sensors Department. As head of the Component



HEAD WORK — Five of the 60 youngsters who showed up for the fourth and final youth soccer clinic on Saturday, Aug. 25, are shown how to stop the soccer ball with their heads by Dr. Karl C. Kauffman, director of the youth soccer program at China Lake. Youngsters pictured are (l.-r.) Phillip Walker, Nathan Krebs,

Shawn Hamilton, Wade Hamilton and Bryant Gustavson. Tryouts for the league's fall season will be held at Davidove Field on Wednesday and Thursday with a second session on Saturday, Sept. 8. Grades 7-9 will also be included in the league this year.

—Photo by Ron Allen



### Registrations being taken for 8-man flag football teams

Registration of 8-man flag football teams to compete during the flag football season that will begin during the early part of September and continue through the early part of November is now being taken at the Center gym.

Additional information about flag football, including the fee to be charged for participation, can be obtained by calling NWC Ext. 2334 or 2571.

The Special Services Division also has announced that organizations or individuals wishing to officiate at flag football games should call Bob Kundinger, assistant athletic director, as soon as possible.

Kundinger, whose telephone numbers are listed above, has information on the tentative starting date for the flag football season, the times that games will be played, and the fees officials will be paid.

### Military personnel invited to take part in 11th N.D. tilts

Naval Weapons Center military personnel have been invited to participate in two Eleventh Naval District tournaments in San Diego taking place in September.

The first is the 11th N.D. (South) Open and Senior's Cross Country Track Meet which will be held at the Mission Gorge Golf Course at the Naval Station, Wednesday, Sept. 19.

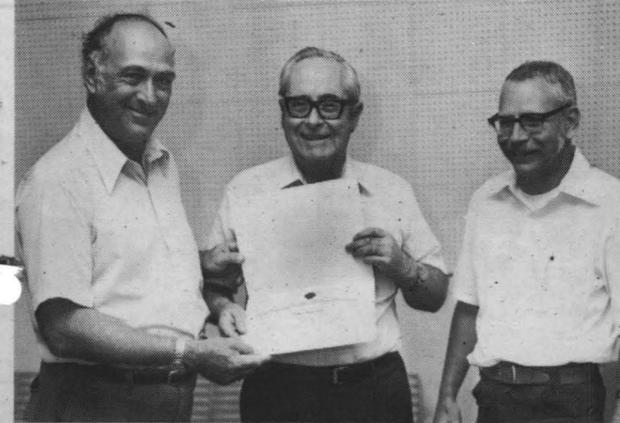
All personnel at China Lake interested in competing in the meet should sign up at the NWC gymnasium as soon as possible.

Participants are also requested for the 1979 11th N.D. (South) Men's and Women's Over-the-Line Championships to be held on Saturday and Sunday, Sept. 22 and 23, at Erdman Beach at the Naval Air Station, North Island.

In the Over-the-Line championships, three player softball teams compete against other three player teams in this beach form of softball.

Entries for this competition must be posted with the NWC gymnasium no later than Sept. 7.

For further information on either tournament, personnel may telephone NWC Ext. 2334 or 2571.



ACHIEVEMENTS HONORED — John Pearson (center), head of the Detonation Physics Division of the Research Department, was honored by being made a Fellow of the American Society of Mechanical Engineers. Pearson received this honor for a variety of contributions made to the field of mechanical engineering in his long career. The Fellow Certificate was presented by Dr. Werner Goldsmith (l.), a faculty member of the University of California, Berkeley, who represented the ASME. Dr. E. B. Royce, Head, Research Department, happily observed the presentation. —Photo by Ron Allen

### Cerro Coso College offering credit for two TV courses in biology

Once again, Cerro Coso Community College is offering students the opportunity to earn college credits through television courses.

For the fall semester, which begins September 4, two classes will be offered in biology.

Students who register for television courses can earn either two or three units of college credit, depending upon the plan they select.

Those who view the television programs and complete required examinations successfully will earn two units of credit. Those who attend a one hour weekly discussion class, related to the television programs, earn one additional unit of credit.

"Introducing Biology," Biology 49a will be offered twice, one broadcast will be on KABC Tuesday and Thursday from 6 to 6:30

p.m. from September 11 to January 17; the other class will be broadcast over KCET (28) from 3:30 to 4:30 p.m. September 18 to January 24.

Students enrolled in the television courses will have available video tapes of every program which may be aired in the Instructional Media Center, Cerro Coso Community College, Monday through Thursday 8 a.m. to 9 p.m. and on Friday 8 a.m. to 4:30 p.m. This provides students the opportunity to view course segments they might have missed, or to review programs they feel are important.

There is no tuition charged for enrollment in television courses. Students pay only for textbooks and supplies used in the courses in which they are registered.

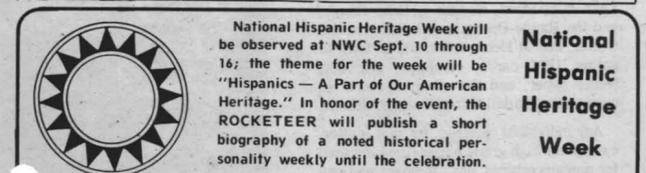
Students may register for television courses and all other classes being offered for the Fall semester starting August 27.

### Recreation hours for Labor Day

The following hours of operation will be observed by business and recreational facilities at the Naval Weapons Center during the Labor Day holiday on Monday, September 3.

Facility	Hours
Bowling Alley and Snack Bar	11 a.m. to 11 p.m.
Navy Exchange Annex	11 a.m. to 7 p.m.
Golf Course	7:30 a.m. to 7 p.m.
Gymnasium	11 a.m. to 7 p.m.
Youth Center	1 p.m. to 5:30 p.m.
Indoor Pool	12 noon to 6 p.m.
Minvielle Park	11 a.m. to 7 p.m.
COM Swimming Pool	11 a.m. to 7 p.m.
CPO Swimming Pool	11 a.m. to 7 p.m.

Facilities not listed above will be closed all day next Monday.



National Hispanic Heritage Week will be observed at NWC Sept. 10 through 16; the theme for the week will be "Hispanics — A Part of Our American Heritage." In honor of the event, the ROCKETEER will publish a short biography of a noted historical personality weekly until the celebration.

George Santayana (1863-1952)

Born in Madrid, philosopher George Santayana moved to Boston with his family when a child and received most of his education there. When he completed his doctorate at Harvard University, he joined the faculty there; his students included T.S. Eliot, Walter Lippmann, and Felix Frankfurter. He eventually moved to England and then to Italy, where he resided at the time of his death.

Santayana wrote poetry and many philosophical works, of which the most noted was the five-volume "The Life of Reason." He was noted for the beauty of his writing as well as his adherence to naturalism. He believed that what we experience and know emerges from nature and has a potential for development toward an ideal end.

Santayana claimed that "a man's feet must be planted in his country, but his eyes should survey the world." Although not a native-born American, his literary and philosophical style are inherently American by virtue of his association with American society and philosophers. He is considered the equal of William James and John Dewey in American philosophy.

### Mike Lab heating shut off helps give Center 26 percent savings

NWC's efforts to save energy are making a difference. This July the Center's heating operations saved a whopping 26 percent, compared to last July. Cutting off the steam heating for the Michelson Lab "dual-duct" heating and cooling system, plus efforts to reduce operation of absorption air conditioners and shut off hot water heaters where possible, contributed to the realization of these major savings.

An 80 percent increase in the price of No. 6 fuel oil caused the Center to shift some of its remaining heating needs to natural gas, so that natural gas consumption was actually higher than last July. As shown in the table below, however, the "bottom line", considering both types of fuels, shows over 26 percent reduction — now that's significant by anyone's standards.

	HEATING ENERGY SCOREBOARD		
	July 1978	July 1979	percent change
No. 6 fuel oil (gallons)	138,467	49,336	-64.4
Natural gas (thousands of cubic ft.)	14,184	17,834	+25.7
Heating Value Change			
No. 6 fuel oil	-13,369.7 MBTU*		
Natural gas	+3,949.3		
	-9,420.4 MBTU (26.1 percent reduction)		

\*MBTU = 1,000,000 BTU

### Opening day for school to be Sept. 4; registrations now on

School starts again Tuesday for all students registered with the Sierra Sands School District. Students who were not attending Sierra Sands District schools when school closed last June should register at their neighborhood schools as soon as possible.

All new students need to present immunization and health information and verification of grade placement (the pupil's most recent report card) as well as any standardized test scores from prior school attendance. New kindergartners merely need proof that they will be five years of age on or before Dec. 1, 1979, to enter.

Viewig School has been designated as the Basics School. Registration for attendance at Viewig has been completed and a waiting list has been established.

Site "B" Capehart, China Lake, students in kindergarten through sixth grade will attend Groves and Richmond schools this year because of limited facilities at Viewig Basic School.

The division is as follows: Kindergarten children not already assigned to Viewig will attend the morning session at Richmond School from 8:15 to 11:45. The bus will pick up students at Stroop and Viewig, Stroop and Ashworth, and Knox and Burroughs, and return.

Grades one through sixth will divide on S. Knox Road. The east side will attend Richmond while the west side will attend Groves School.

The only exception to this is that all fifth

### Capt. Stephenson to be guest speaker at Navy League meeting

Capt. Paul D. Stephenson will be the guest speaker at the monthly meeting of the Indian Wells Valley Council of the Navy League on Thursday, Sept. 13, at the Enlisted Mess at China Lake.

Capt. Stephenson assumed command of Air Test and Evaluation Squadron Five in January 1979 from duty as head of the Strike Warfare Section of the Tactical Air, Surface, and Electronic Warfare Development Division in the Chief of Naval Operations' Office in Washington, D.C.

The Captain is a graduate of Fort Hays Kansas State College in 1955 and was designated a Naval Aviator in April 1957 after completing the Navy's Aviation Cadet Program at the Naval Air Station, Kingsville, Texas.

The Navy League meeting will start with a social hour at 6:30 p.m., followed by a T-bone steak dinner served at 7:30. The deadline for reservations, which may be made by calling Tom Andreass at 446-5763 or 446-5914, or Irene Rainey at 377-4276, is Monday, Sept. 10.

### Soccer League to accept players in grades 7-9

Boys and girls in grades 7 through 9 will be accepted in the Youth Soccer League at China Lake for the first time this year because of lack of accommodations at the junior high schools in the local area.

Dr. Karl C. Kauffman announced this week that provisions were being made to add not more than four junior high teams to the China Lake soccer program.

Interested junior high school players should check with their local school to determine if they might be placed on a school team.

However, players should sign up immediately at the Community Center for the Youth Soccer League as space may be

limited and players will be taken on a first come-first serve basis.

No fees need to be paid by 7th-9th graders until they are accepted in the League. Tryout times for these older players will be announced later.

Players in grades 10 and over should join the adult team at China Lake. Workouts for this team are held on Tuesday and Friday at 5 p.m. at Davidove Field.

Youth Soccer League signups for the younger players — those in grades 1 through 6 — are now being taken at the Community Center also.

These younger players will need to be evaluated for team assignments. Two

tryout sessions will be held for each age group. Each player must attend one of the sessions in order to take part in league play.

Tryouts for school grades 1 and 2 will be held on Thursday, September 6, at 5 p.m., and Saturday, September 8, at 11 a.m.; grades 3 and 4 on Wednesday, September 5 at 5 p.m., and Saturday, September 8, at 9 a.m.; and grades 5 and 6, Wednesday, September 5, at 6 p.m., and Saturday, September 8, at 10 a.m.

All tryouts will be held at Davidove Field. Any player who cannot attend the scheduled sessions for the grade grouping because of an unavoidable conflict may attend any of the sessions.

### Post Labor Day swimming pool hours set for COM, CPO pools

New pool hours will go into effect at the Commissioned Officers' Mess and the Chief Petty Officers' Club swimming pools after Labor Day.

In addition to these new hours, the indoor pool will be closed for annual maintenance from Sept. 4 through 16. Anyone who would normally swim in the indoor pool will be welcome to do so at either the COM pool or the CPO pools during this period.

The new hours at the COM pool from Sept. 4-7 and Sept. 10-14 are 10 a.m. to 1 p.m., adult lap swim only; and 4 to 7 p.m., open swimming. On the weekends of Sept. 8-9, Sept. 15-16, the hours will be 11 a.m. to 12 noon, adult lap swim only; and 12 noon to 6 p.m., open swimming.

The new hours at the CPO pool from Sept.

4-7 and Sept. 10-14 are 4 to 7 p.m., open swimming; and weekends of Sept. 8-9 and Sept. 15-16, the hours are 11 a.m. to 6 p.m., open swimming.

The Minvielle Pool will be closed until next summer as of Sept. 4. All enlisted military swimmers will be welcome at the COM and CPO pools.

The indoor pool will begin winter operating hours on Monday, Sept. 17.

### IM softball team reps asked to return gear

The managers or representatives of this year's summer intramural softball teams are urged to return any equipment that they may have borrowed at the start of the season.

### Jogging may prove hazardous especially on San Clemente Is.

Many claim that jogging can be very beneficial but can you imagine being shot at by "Green Berets" then held prisoner? This was the plight of a jogger from the Naval Ocean Systems Center (NOSC) in San Diego.

Brian Shaw of NOSC may now have a somewhat different view of the benefits of jogging after his recent experience on San Clemente Island.

Following a day's work there, Shaw went out for a run. He made it up one hill and down the other side when he was hailed by a truckload of Green Berets and told to stop. He continued running, and was fired on with a machine gun, at which point he decided it might be wise to pay closer attention. He was put in the truck, handcuffed and carried down the road a ways, where another jogger was accosted, fired on and brought aboard. And so on, with three other joggers.

The five were locked up and "interrogated," then left alone for awhile, during which time one of the prisoners managed to free himself from his handcuffs. He found a .45 pistol, and opened fire on his captors when they returned. They fled. He then freed the others, who took off at a dead run, all except Shaw, whose leg was just recently taken out of a cast and not fully recovered. He was recaptured before he got very far down the road.

Eventually he was freed, and the real story came out: The other four "joggers" were in fact Navy Seals out on a recon mission during training exercises. Shaw, a Navy pilot until three months ago, was mistaken for one of the Seals, and fired on with a machine gun loaded with blanks, also used in the escaped "prisoner's" 45.

Shaw said he "wasn't scared" during the episode, but complained about the hardship of having to jog back the three extra miles on his still weak leg.



AWARD WINNERS — Local car buffs Bob Reber (right) of Code 3441 and John Peterson of Code 0031 recently walked away with four of six trophies given by a show at Nojoqui Falls, Calif., near Santa Barbara. The event, which had 125 entries, was sponsored

by the Santa Barbara Classic Chevrolet Club. Reber earned the "People's Choice Overall" trophy and the "Longest Distance Traveled" trophy, while Peterson won two other trophies.

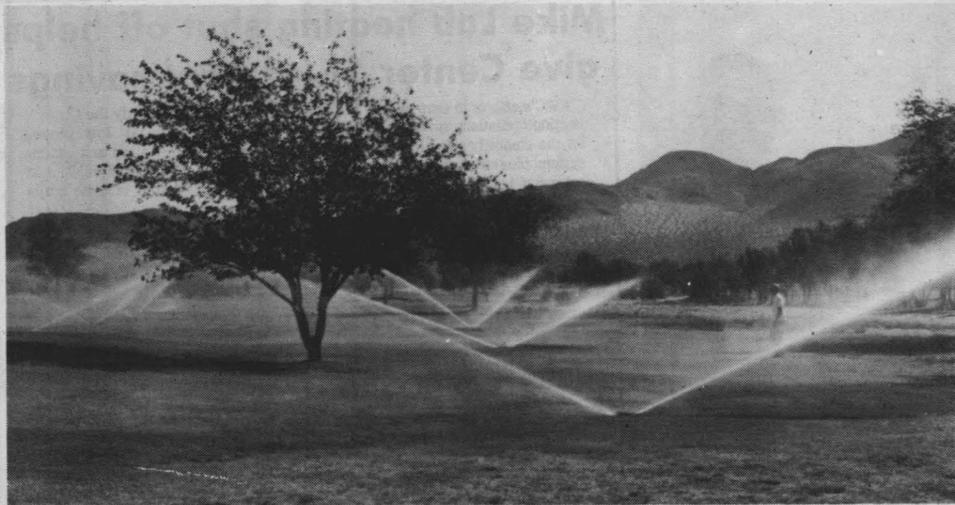
—Photo by Ron Allen



CWO3 Dale E. Barnett

Vallejo, Calif.; Explosive Ordnance Disposal Training and Evaluation Unit, Pacific; Navy Recruiting Area Six, Fort Omaha, Omaha, Neb.; and Naval Mobile Construction Battalion Ten, and Thirty-first Naval Construction Regiment, Port Hueneke, Calif.

CWO3 Barnett was accompanied to China Lake by his wife, Carole, and their two daughters, Valary, 16, and Janny, 14. The Barnetts reside in quarters at China Lake.



**KEEPING IT GREEN** — More than 1.6 million gallons of recycled water are used each night and early morning to keep the golf course green during the hottest months of July and August. Water requirements during the rest of the year are somewhat

less, but are still substantial. The pond area provides storage for the water during its 50-day treatment cycle as well as for water in excess of daily watering usage.

## Recycling saves both resources and energy

The Naval Weapons Center began its effort to recycle, to save and salvage those items taking energy to manufacture, long before the current oil shortage made such an operation popular.

Because of these efforts by the Center, the savings to the Navy and the nation as a whole have been considerable.

Recycling efforts here have included both the industrial recycling that a large organization can economically attain and individual efforts of the citizens of the community. In addition to the satisfaction gained from contributing to a high-priority national objective, the individual citizen has also benefited monetarily through activities paid for by the Employee Services Board Community Recycling Center.

The first recycling effort locally, understandably for a desert, was in recycling water. Since its inception, the China Lake golf course has been kept green with treated water from the sewage pond area. The chemically treated water is safe for all except drinking purposes; the lawn, shrubs, and trees on the golf course not only don't mind, but positively thrive on the moisture piped in.

This water, otherwise not usable without further treatment, has provided green vistas and pleasant recreation facilities to thousands of local residents in the more than two decades of the course's existence.

Other potential products of the water recycling for the future are organic waste (a possible source of material for the trash-to-gasoline operation that has been developed on the Center) and methane gas. The City of Ridgecrest, which also treats NWC sewage, is studying use of both of these by-products at its plant which is located near NWC's ponds.

Industrial recycling was a long-standing policy at NWC, but major community efforts began with the formation of the High Desert Recycling Center. This group organized during the first energy crisis in the 1973-1974 era.

As with any new organization, many meetings were held and much discussion ensued. The major difficulty in recycling was to move the bottles, cans, papers, or whatever else was collected to the population centers where commercial recycling firms were located.

By the time that the first commercial operator was found who was willing to come this far to pick up "trash," the High Desert Recycling Center had moved under the Community Council at NWC; money was borrowed to start operations from this group. (When the Community Council was disbanded, the recycling organization moved under the Employee Services Board, where it is still located. Founders Jim Fath and Jud Smith have remained active with

the group throughout its moves.)

The first commercially feasible salvage collection at the recycling center, located on south Richmond Road on the Center, was glass. An operator was found who was willing to drive in from Madera, Calif., to pick up glass at \$14 a ton. The glass did not need to be sorted into green, brown, blue, and clear white to be of use — all that was necessary was that no ceramic, mirrors, or plexiglass was included. The shards of glass are remelted and made once more into bottles — green bottles, which, in Madera, means wine bottles.

Glass and bottles are collected from throughout the area. The clubs and messes on the Center contribute theirs, for instance: The Public Works Department has also contributed large quantities of glass such as broken window glass.

Most visible of the collection efforts is that of paper collection. A mammoth van sits at the recycling center area gobbling 10 tons or 12 bales of newspapers for each filling. Householders wishing to toss their newspapers into the collection van in order to save a tree are asked to either tie the papers in bundles or to sack them in grocery bags to simplify the major baling operations.

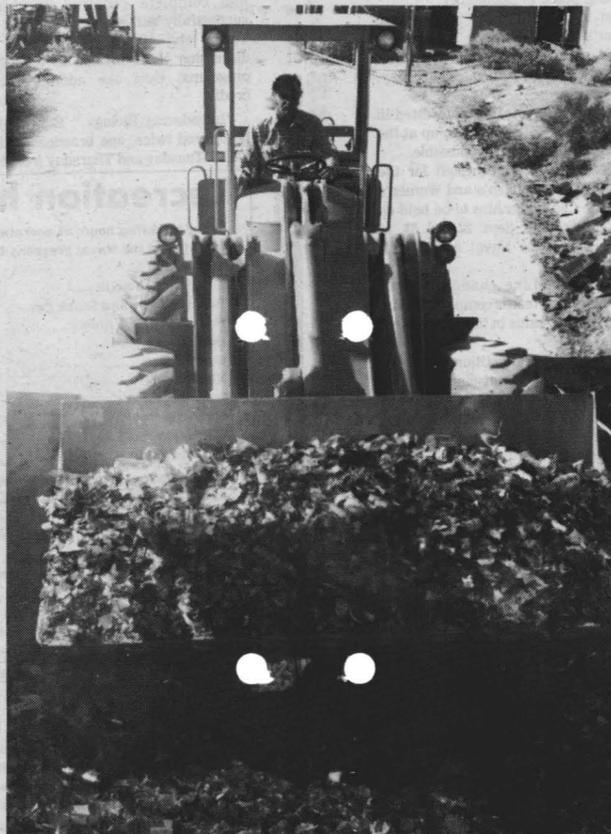
With any government organization, bureaucratic paper piles up. This is also recycled. Collection points exist at Michelson Laboratory, the Administration Building, 50 Blandy, the technical library, Building 60, the Earth and Planetary Sciences Building, Public Works, China Lake Pilot Plant, Hangar 3, Echo Range, and the Range Operations Building on the Center, and at local contractors in town to gather IBM cards, computer print-out, ledger paper, and the other off-shoots of computerized administration and research.

Any individual or group, for that matter, can gather high grade paper (the kind used for announcements, etc.) in boxes and can call for a pick-up when a box or more has been gathered. The only requirement is that the material be unclassified. A telephone call to NWC Ext. 2964 will result in arrangements for a pickup.

More profitable from both an energy and monetary return is the gathering of aluminum cans. From an energy standpoint, salvaging aluminum cans is especially important. Making new aluminum from the raw material requires large amounts of electricity. Bins sit by the vending machines throughout the Center so that those who quench their thirst can easily dispose of their cans in such a way that the



**BALING** — Newspapers collected are sorted (to remove cardboard or magazines) and then baled for ease in handling. As they are baled, they are sprinkled with water to help cut down on dust (up to 5 percent of weight of newspapers collected for resale can be water). Jim Fath gets set to toss a load in the baler.



**SCOOPFUL** — Richard Larch, operating the skip-loader, scoops up a load of broken glass at the recycling center for loading aboard a truck sent by the Madera, Calif., company that melts the glass for re-use. The volunteers who have been heavily involved with the local recycling center have high words of praise and appreciation for the assistance provided by Public Works Department personnel, the local Defense Property Disposal Office, and the Seabee Reserve Unit.

Story by

Mickey Strang

Photos by

Ron Allen



**GATHERING SPOT** — Newspapers, either bundled and tied with string or sacked in paper sacks, are collected in the van before being sorted and baled for shipment. Any cardboard or magazines tossed in need to be separated before the papers can be baled.



**CONDENSED CANS** — The aluminum cans collected are shredded, both for ease in shipment and for higher resale value. Recycling of cans represents a major saving of energy: processing one pound of new aluminum requires 8 kilowatt hours of electricity (the energy equivalent of 5 pints of crude oil), while reprocessing a pound of aluminum requires only 5 percent of the same amount of energy.



**STACKING** — Venita Hewitt stacks boxes of IBM computer cards to simplify their bundling for shipment to a recycling operation. Computer cards and printout, and the various kinds of administrative paper collected, are stored in Warehouse 918 for sorting and baling.



**READY TO GO** — Bales of newspapers await shipment out of the local area to a major recycling plant. Some cardboard is now also being baled (mainly that cardboard used as containers for paper collected from offices); a probable area of future expansion for recycling efforts will be collection of the boxes and other cardboard accumulated locally.