

Fun-filled Membership Night at Officers' Club set for July 28

Country and western style music by Gene Bare and his band will be featured at the "Membership Night" party which is to be held on Friday, July 28, at the Commissioned Officers' Mess.

Plans call for a country barbecue buffet which (weather permitting) will be served on the lanai at the COM. The menu will include charcoal-broiled chicken, baked potato, salads, corn on the cob, hot biscuits and rolls — all for the nominal price of \$3 each for COM members and their guests.

Dinner will be served from 6 to 9 p.m., and music for the listening and dancing pleasure of those who attend the "Membership Night" fete will be played from 8 p.m. to midnight.

In order to bring in a popular musical group and still stay within budget, the evening's entertainment will be limited to the band.

Based on the tremendous success of the past two monthly "Membership Night" parties at the COM, another well-attended,

fun-filled affair is expected on the night of July 28.

The continuation of this type of support for activities at the COM will make possible bigger and better events in the future, it was stressed by E. B. "Stav" StavRue, head of the Special Services Division's Clubs and Messes Branch, who is currently acting as manager of the COM.

Reservations to attend the July "Membership Night" party can be made by calling 446-2549.

World travelers to show movies of New Zealand trip

A talk about their trip to New Zealand and America Samoa, illustrated by 8mm movies, will be presented by Hal and Jean Bennett on Tuesday evening, starting at 7:30, at the Pierce Elementary School multi-use room.

This program, entitled "Wandering Around New Zealand," has been arranged by the Maturango Museum, and is open to all interested persons.

During their trip to the spectacular countryside and bustling villages of New Zealand, the Bennetts, who are employed in the Physics Division of the NWC Research Department, were accompanied by Bill Norris, acting head of the Organic Chemistry Branch in the Chemistry Division of Code 38, and his wife, Naomi.

For the past several years the Bennetts have been making a popular annual tradition of presenting movies of their trips free of charge to the public under the sponsorship of the museum. Their presentation next Tuesday will begin with some colorful footage of Rotorua, the "Yellowstone Park of New Zealand" and one of only three geyser basins in the world.

Highlights of a hike the Bennetts and the Norrises took on the Milford Track will also be shown, as will such adventures as a ride on a paddlewheel steamer and a raft trip down a rapids-filled river. Beautiful glacier country will be viewed, as will several transplanted English and Scottish cities.

Wildlife footage will feature birds unique to New Zealand, including some remarkably tame flightless varieties.

After they visited New Zealand for five weeks, the two local couples, took a week-long side trip to American Samoa before returning home. Primary goal of this trip was a visit to Norris' daughter.

Activities featured in films of this portion of their trip include hiking, snorkeling, visiting native villages, and a tram ride over the harbor of Pago Pago.

Enlisted Mess patrons are looking forward to tonight's return performance of hypnotist Larry Corona, who will put the audience "under his spell" between dance sets played by "Hot Wax," a San Diego-based soul music group.

Corona packed the club during his appearance here a few weeks ago, and the combination of his show and the club's first soul group in some time is expected to fill the club again.



WORLD TRAVELERS — Three NWC employees (from left) Bill Norris, Jean and Hal Bennett are shown as they prepared to start out on a hike on the Milford track during a trip to New Zealand. The three, along with Mrs. Norris (Naomi), will tell about their travels "down under" and show 8mm movies on Tuesday night at the Pierce Elementary School multi-use room.



POPULAR SUMMERTIME EVENT — Getting in practice for the annual ice cream social, sponsored by the Protestant Women of the Chapel, Beth Wallace tries her hand operating an ice cream maker. Looking forward in anticipation of this fun-filled activity are Troy Sample and Bret Wallace (on left) and Lisa Sample, who is holding a poster advertising this event. —Photo by Ron Allen

Protestant Women of Chapel's annual ice cream social to be held Tuesday evening

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

Not only will there be ample servings of ice cream along with the patron's choice of either homemade cake or pie, but coffee and punch also will be included for donations of \$1 for adults and 50 cents for

children 11 years of age and under.

Tickets to the ice cream social can be obtained in advance on weekdays at the All Faith Chapel office, on Sunday following the regular Protestant Congregation service, and also will be sold on Tuesday evening.

A large enough number of tables to accommodate the anticipated throng of 1,000 to 1,500 persons who regularly attend this event will be set up in a shaded area. In addition to the tasty dessert items, there will be musical entertainment by Ken Robinson's Dixieland band.

A new attraction this year will be a "Tattoo Lady," who, for the nominal sum of 25 cents, will paint a design (using water soluble paints) on a patron's arm or leg.

A "Pickpocket Lady" also will be circulating among the crowd. She will be wearing an apron which has large pockets filled with surprise gifts for youngsters 2 through 8 years of age.

By purchasing a 25-cent ticket, children will be entitled to reach into the apron pocket and pluck out a prize.

Money raised by the ice cream social, the plans for which are being coordinated by Judy Weaver and Jan Arisman, chairman and co-chairman, respectively, will be used to support various missionary projects supported by the All Faith Chapel's Protestant congregation.

Public invited to inspect clinic construction work

The public is invited next Thursday, July 20, to a walk-through of the new Desert Counseling Clinic, now under construction.

Billed as a "Sidewalk Supervisors' Peek," this event will take place between the hours of 5 and 8:30 p.m.

On hand will be members of the Desert Counseling Clinic board of directors and staff, who will serve as hosts and tour guides.

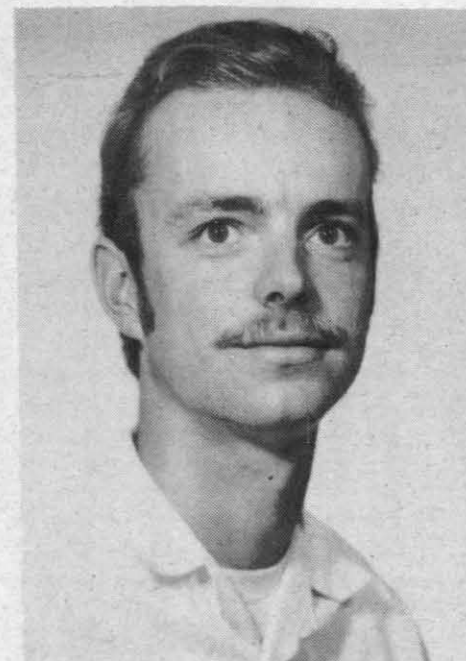
Florence Green, general chairman of the clinic's building fund drive, will accept additional donations to the fund that guests may want to make when they see the new building.

Refreshments will be served.

U.S. Government Printing Office:
1978—No. 134

From: _____	PLACE STAMP HERE
To: _____	

Program subject to change without notice.
For further information call NWC ext. 3097.



AQAN Lawrence P. Lenz

AQAN Lenz picked as Bluejacket of Month by VX-5

Aviation Fire Control Technician Airman Lawrence P. Lenz of Air Test and Evaluation Squadron Five has won the coveted NWC Bluejacket of the Month award for June.

In a letter of commendation that accompanied the award, Capt. L. E. Guilliani, VX-5's Commanding Officer, noted that Lenz received the honor in recognition of his "outstanding performance, selfless devotion to duty and the enthusiastic manner" in which he pursues all activities.

AQAN Lenz, who was named VX-5 Sailor of the Month last April, is a plane captain assigned to the Line Division. He reported to the squadron last October.

"Assigned to the Line Division," the letter of commendation continues, "you rapidly qualified yourself as a plane captain in both the A-4 and A-6 aircraft. Your pride in your work and appearance sets an excellent example."

"You have been a leader among your fellow plane captains. On several occasions, your extra effort in aircraft daily inspections has resulted in the detection of discrepancies which, if not discovered, could have caused serious damage or loss of an aircraft."

AQAN Lenz was also cited for his enthusiastic approach toward training new plane captains which, according to the commendation, has greatly enhanced his division's training program.

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R. A. Boot officially named as head of Fuze, Sensors Dept.

Congratulations were extended Monday morning to Robert A. Boot by R. M. Hillyer, NWC Technical Director, who had the pleasure of announcing that Boot has been officially named head of the Fuze and Sensors Department.

Since June 1975, when he replaced Hillyer as head of the Fuze Department, Boot has been the acting head of Code 33.

Boot, as head of the NWC Fuze and Sensors Department, also serves as the Chief of Naval Material's Executive Agent for Fuze Development. This responsibility was added to those of his department head duties in April 1977, when a charter was issued by the Chief of Naval Material assigning to NWC management responsibility for the Navy fuze technology base program.

An important part of Boot's duties as the CNM Executive Agent is to represent the Navy in tri-service coordination of fuze development. He is supported by Dr. Robert E. Wilson, of the Naval Surface Weapons Center, Dahlgren, Va., as Deputy Executive Agent.

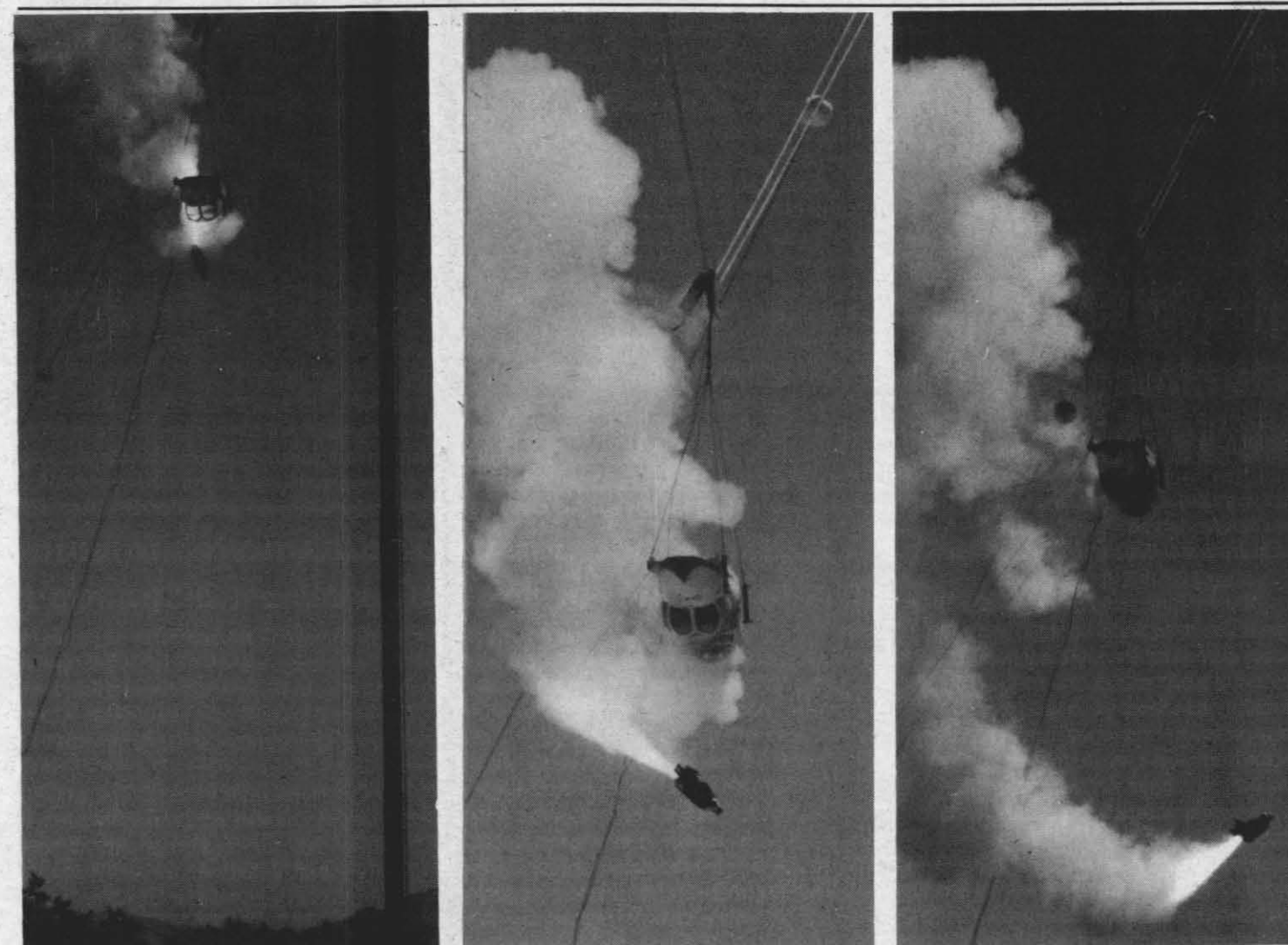
Boot, who this past May was singled out to receive the L.T.E. Thompson Award (the Center's highest recognition for individual achievement), is a native of Philadelphia, Pa., and attended Drexel Institute in



Naval Weapons Center
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GO—The vertical-seeking seat blasts out of the inverted cockpit, ejecting a crewman from an aircraft flying upside-down at an altitude of 100 feet.

Spectacular first recorded during test at SNORT of vertical seeking ejection seat

By Duane Blue

A spectacular first in aircrew escape was accomplished recently at the Naval Weapons Center when a vertical-seeking ejection seat rocketed earthward from an upside-down cockpit suspended 100 feet above the ground.

After traveling straight down less than 45 feet, the seat reversed direction, carried a

dummy crewmember skyward and, then, parachuted it safely to the ground.

The test, conducted at NWC's Supersonic Naval Ordnance Research Track (SNORT), dramatically increases the altitude range and aircraft attitude at which an aircrew member can eject and be safely recovered using the Vertical-Seeking Seat (VSS).

Although ejection from an aircraft flying upside-down at 50 feet above the ground is a situation every pilot hopes to avoid, the test demonstrated the VSS will recover an ejected aircrew member under those conditions.

Equally important, the test shows that safe ejections will be possible from an aircraft that is rolled 90 degrees, even when the lower wingtip is just above the ground.

Designed, Developed by NWC

The escape system is being designed and developed by NWC for incorporation in the Maximum Performance Escape System (MPES) program. The MPES program is conducted by the Naval Air Development Center (NADC), Warminster, Pa., for the Naval Air Systems Command.

Project Engineer Bill Stone, of the Systems Technology Branch in the NWC Ordnance Systems Department's Propulsion Systems Division, explained that the VSS has two key subsystems — a digital, programmable autopilot and a propulsion/steering system.

The propulsion power necessary to maneuver the seat to a vertical seeking attitude and to provide the critical increase in altitude is supplied by an 8-inch-diameter spherical rocket motor mounted under the seat. The motor is mounted in a two-axis gimbal ring that moves to provide thrust in any direction up to 20 degrees from the center position.

Steering commands to the gimbal rings are initiated by an autopilot, consisting of a

three-axis rate sensor system, an Intel 8080A central processing unit, and the necessary associated electronics.

Autopilot project engineer Ron Stoutmeyer, of the Weapons Department's Signal Processing and Control Branch, explained that the autopilot is a micro-computer that functions automatically.

Input Received Continuously
"It receives inputs continuously on the seat's rate of attitude change, calculates what direction the motor should be thrusting in order to get the seat back to a vertical position, and signals the actuators to gimbal the motor," Stoutmeyer said.

The capability of the system was fully demonstrated during the June 14 test.

Within about one second after ejection was initiated, the seat maneuvered to a near vertical attitude about 55 feet above the ground — the lowest point in the flight trajectory.

At burn-out the seat had reached an altitude of slightly more than 100 feet and continued on to 137 feet where the parachute opened normally and floated the dummy back to earth.

The significance of increasing the safe ejection "envelope" to any altitude above 50 feet without regard for aircraft attitude is vividly illustrated by Navy ejection statistics.

Survival Rate Near 80 percent

The survival rate for Navy ejections is just under 80 percent. More than half of the fatalities result from ejecting "out of envelope." A safe ejection envelope is determined by a combination of factors including an aircraft's altitude, attitude and sink rate, which is the rate that the aircraft is moving towards the ground.

"Many fatal ejections would have been safe ejections with the capabilities of the VSS," project engineer Stone said.

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Robert A. Boot



EXTENSIVE USE MADE OF COMPUTERS — Pat Johnson, an analyst in the Advanced Business Systems Division of the Office of Finance and Management, works at Univac equipment of the division's offices in old Dorm 15. The division has remote terminals connecting its offices with the main Univac 1110 computer in NWC's central computer facility to facilitate its monitoring of the 130 business and financially oriented programs for which it is held responsible.

Cutting paperwork big concern of Business Systems Division

By Mickey Strang

"If we do our job well, nobody ever hears about us," says Ernie Solberg, head of the Advanced Business Systems Division (Code 084) of the Office of Finance and Management. "If we make a mistake or skip a report, it would create all kinds of trouble."

This group's primary job is twofold: first, it consists of the systems analysis and programming efforts to keep the Naval Weapons Center financial system going and to improve upon it to reduce the amount of paperwork needed for this while still providing the same information. Secondly, the group does the automatic data processing reporting required by federal regulations.

Paperwork Mind-boggling

Reduction of paperwork looms heavily in the minds of 084 personnel—they are responsible for reports that comprise more than 400,000 pieces of paper a month to a mind-boggling total of nearly five million pieces a year, all of which must be totally accurate and on time. Considering that the division has less than 20 employees, it is fortunate that Code 084 is able to use contractor assistance for production and distribution of this mountain of regular reporting.

Code 084 maintains and updates 130 computer programs dealing with accounting, payroll, and other Centerwide financial reporting. The programs are written in COBOL (Common Business Oriented Language), which is basically English rather than the figures and symbols used in scientific programming languages such as FORTRAN. These programs are on the Univac 1110 in the Central Computer Facility.

The aim of Advanced Business Systems Division personnel is to automate as much as possible so they will be able to use the computer terminals not only for seeking information but for data entry as well.

The 130 programs call for a considerable interface between division personnel and the customer. Code 084 is customer-oriented; flexibility and responsiveness to the needs of the customer are of prime importance, and each of the analysts or programmers is empowered to make common sense decisions immediately.

Computer Consultants Help

Consultants from the Computer Sciences Division (Code 313) of the Systems Development Department are called on when needed. Solberg notes that with the mandated change in payroll to CIVPAY, one pay day would have been without paychecks for the Center had not the assistance of Code 313 been available. Solberg adds that thanks to the efforts of Dave Devous, Bill Osborne, John Simpson, and Joan Crista, the problem has been cleared up so that there is no need for concern that any payday will be missed.

An appreciative nod also goes from the Advanced Business Systems Division to contractor personnel from the Computer Sciences Corp. who run most of the "batch" programs and produce the mammoth quantities of resultant paperwork. Payroll, for instance, is a "batch" program.

An approach to help cut down on the volume of paperwork is the division's use of microfiche whenever possible. Microfiche is a card version of microfilm although much more compact in that each microfiche card contains the same amount

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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 may be obtained from your Personnel Management Advisor (Code 096 or 097). Advertising positions in the Promotional Opportunities column does not preclude the use of alternate recruiting sources in filling these positions. As part of the rating process, a supervisor appraisal will be sent to the current supervisor and the most recent previous supervisor of those applicants rated as basically qualified. The Naval Weapons Center is an equal opportunity employer and selection shall be made without discrimination for any nonmerit reason. The minimum qualification requirements for all GS positions are defined in CSC Handbook X-118, while those for all WG, WL and WS positions are defined in CSC Handbook X-118C.

Clerk-Typist, GS-322-3/4, PD No. 7195001-3N, Code 012 — Part time 36 hours per week. This position is located in the Office of Patent Counsel. Duties include typing material of a legal and technical nature, processing invention disclosures and reviewing for proper signatures and completeness of related attachments. Incumbent also maintains patent case files and administrative files, orders supplies, and serves as timekeeper. **Job Relevant Criteria** — Ability to type accurately and efficiently; ability to get along with others in the work group; ability to meet deadlines under pressure. Although duty station is NWC, China Lake, incumbent will be employed by Office of Naval Research, Arlington, Va. Applications will be accepted from status eligibles.

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

Accounting Technician, GS-525-5/6, PD No. 770058N, Code 0861 — The position is located in the General Accounting Branch, Financial Operations Division of the Office of Finance and Management. The incumbent maintains the NIF general ledger, prepares transmittals on special manual system documentation, and is responsible for the maintenance of the master control totals for the ADP cash supplement system. **Job Relevant Criteria** — Knowledge of nonprofessional accounting techniques; knowledge of overall operations of NIF accounting systems; ability to work with figures; skill in working effectively with people. Status eligibles accepted.

File applications for the above with Tina Rockdale, Rm. 206, Bldg. 34, Ph. 2514.

Mechanical Engineer, GS-830-9/11, PD No. 7822976 or Engineering Technician, GS-802-9/11, PD No. 7742013, Code 62231 — This position is that of a range engineer in the Ground Operations Branch of the Range Department. Duties are to plan and direct experimental, developmental or evaluation tests of missiles, mass detonation studies, projectiles and other gun propelled missiles of various calibers. This includes test design, safety criteria and necessary material and support services. **Job Relevant Criteria** — Practical knowledge of electronics and mechanics. Familiarity with most ordnance equipment. Experience in missile system testing and assembly. Experience in safety planning for testing.

Ordnance Equipment Mechanic, WG-641-8/10, JD No. 481N, 438N, Code 6211, (2 vacancies) This position is located in the Ballistics Test Branch of the Range Department. Duties are to assemble, modify, and service test hardware used in the experimental and developmental evaluation of warheads, rockets, missiles, high explosives, and ordnance-related items. The incumbent will operate specialized test equipment while working with ordnance items. **Job Relevant Criteria** — Experience with ordnance/explosive items and/or field test techniques; ability to perform field test operations in a safe manner and to work as a member of a team.

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

Clerk-Typist, GS-322-3/4, PD No. 7824015N, Code 2403 — This position is that of clerk-typist located in the head of staff office, Safety and Security Department. The incumbent types official correspondence, memoranda, financial status reports, personnel reports, statistical reports and other documents. He/she acts as receptionist for the office and collects and prepares information for the supervisor's use. The incumbent also maintains files for the office. **Job Relevant Criteria** — Ability to type accurately and efficiently. Knowledge of the rules of grammar, punctuation, and spelling. Ability to work independently. Knowledge of Navy correspondence policies and procedures. Experience collecting and typing statistical material.

Police Officer, GS-083-4/5, PD No. 7724029N, Code 2413 — Applications will be accepted from both NWC employees and status eligibles. This position is located in the Police Division of the Safety and Security Department. Incumbent will perform his duties as uniformed patrolman. He will be responsible for the prevention of criminality, repression of crime, apprehension of offenders, recovery of property, regulation of non-criminal conduct including traffic control and enforcement. In

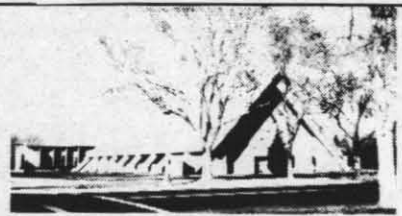
addition, to these duties the incumbent will function as the division canine handler. The incumbent will train in all aspects of narcotics and explosive detection utilizing a police dog. **Job Relevant Criteria** — Ability to work in stress situations; ability to exercise good judgment; knowledge of police investigation and patrol procedures; knowledge of laws and regulations, experience working with animals. Summary of qualification requirements: GS-4 two years law enforcement experience; GS-5 three years law enforcement experience. Promotion potential to the GS-6 level.

Electronics Technician, GS-856-5/6, PD Nos. 7835024N / 7835038N, Code 3553 — Applications will be accepted from both NWC employees and status eligibles. This position is located in the Threat Radar Evaluation/Development Branch, Countermeasures Division, Electronic Warfare Department, with a duty station in the Randsburg Wash Test Area. Duties are the adjustment and calibration of the circuitry of a sub-system(s) of a one-of-a-kind threat radar system that is used in the test evaluation of electronic warfare and associated optical/electro-optical devices and tactics. An incumbent receives extensive training in radar operation, test equipment and radar circuitry, both formal and on the job, to enhance his/her knowledge of electronics. **Job Relevant Criteria** — Knowledge of basic electronic theory. Working knowledge of circuitry used in radar subsystems. Troubleshooting experience with electronic circuitry. Experience using basic test equipment such as multimeters, oscilloscopes, power meters, frequency meters. Ability to take direction to work in stressful test environment, to be sufficiently dependable to meet test requirements, to cooperate with peers. Promotion Potential: GS-10.

Electronics Technician, GS-855-8/9/10, PD Nos. 7835040N / 7835041N / 7835036N, Code 3553 — Applications will be accepted from both NWC employees and status eligibles. This position is located in the Threat Radar Evaluation/Development Branch, Countermeasures Division, Electronic Warfare Department, with duty station in the Randsburg Wash Test Area. Duties are operating, aligning, calibrating and repairing one-of-a-kind threat radar systems that are used in the test/evaluation of electronic warfare and associated optical/electro-optical devices and tactics. An incumbent must establish and maintain compatible electronic interfaces on assigned radar subsystems, and assist in providing technical expertise to engineers responsible for modification of the threat radar systems to which assigned. **Job Relevant Criteria** — Knowledge of radar subsystem design. Trouble shooting experience with radar subsystems/ systems. Experience using test equipment to include RF sweepers, spectrum analyzers, frequency synthesizers, IC analyzers, pedestal servo system analyzers. Ability to work well with others in pressure situations. Demonstrated ability as a radar operator. Promotion Potential: GS-10.

Interdisciplinary Position, GS-830/861/893/1310-11/12, PD Nos. 7835082/7835083E, Code 3522 — Applications will be accepted from both NWC employees and status eligibles. This position is interdisciplinary in any one of the following series: Mechanical Engineer, GS-830;

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DIVINE SERVICES

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

REWARD OFFERED — The ROCKETEER has been advised that a China Lake resident who wishes to remain anonymous has offered a \$200 reward for the arrest and conviction of the owner of this fine-looking dog, which was found abandoned last week in the China Lake housing area. Anyone who has information concerning this dog is asked to contact the Ridgecrest Police Department, ph. 375-5044, and ask for Mert Davis, the animal control officer.

— Photo by Ron Allen

Stop Smoking Clinic produces results, attendees report

The Training Center is accepting applications for another "Stop Smoking Clinic," and the nine days of aversive reaction training will begin when enrollments reach ten.

The first clinic ended more than two months ago, and several of the ten participants have effectively "kicked the habit."

Florence Meeks, an accounting technician in Code 0862, said that she had consumed a pack of cigarettes a day for 40 years, but hasn't smoked since taking the course.

"I was ready to quit and admitted to myself that I had to quit. The clinic provided the tools that made it possible. For me, it was beautiful," she said.

She had been warned by physicians to quit, but said that she finally got the moral support she needed from the course and, because of taking it, from fellow employees.

Richard Smith, a Code 338 visual aids specialist, also attended the first "Stop Smoking Clinic;" however, he hasn't been able to stop smoking completely.

He has cut his cigarette consumption from two packs a day to one pack a week. He said that he only smokes on weekends while driving long distances in his car.

Smith has smoked for 20 years and said that the clinic was a tremendous help in helping him cut back on the number of cigarettes he smoked.

"I never made this kind of progress before, although I tried half a dozen times to quit on my own," he said.

The clinic uses the aversive reaction technique to induce smokers to quit. This method makes smoking an unpleasant instead of a pleasant experience by forcing smokers to chain-smoke many more cigarettes than they normally would and, then, by blowing the smoke back into their faces. They are not permitted to smoke between clinic sessions.

Smokers are also asked to smell a stale mixture of water and old cigarette butts as another means of impressing upon them the unpleasant side of smoking.

Participants attend daily 30- to 45-minute sessions, and most stop smoking by the eighth day.

They must keep daily records indicating the circumstances, duration and intensity of their smoking urges to determine why they smoke and to channel these compulsive urges away from the desire to smoke a cigarette.

The fee for attending the clinic is \$160, of which \$20 is refunded to participants who complete the course. More information and registration requirements may be obtained by calling Lynn Lacey on NWC ext. 2574.

Applications being taken for course in cost analysis

Applications are now being taken for enrollment in a cost analysis course that will be held from 8 a.m. to 4 p.m. on July 27 at the Training Center.

The objective of this course, which will be taught by John Wilson, a mathematician in the Weapons System Cost Analysis Division of the Office of Finance and Management, will be to provide project managers with an overview of the impact of cost in systems acquisition.

In addition, the use of cost analysis in systems selection and as a design parameter also will be discussed. The emphasis will be on the use of cost analysis in reaching management decisions, rather than how to do it.

This is one of the classes included in the Certificate Course for Program Managers.

Employees interested in attending must submit a training request and authorization form via proper department channels in time for it to reach Code 094 no later than Monday.

Director of Child Care Center to attend symposium

Polly Walsh, director of the Employee Services Board's Child Care Center, is making plans to attend the 1978 West Coast Child Care Symposium, which will be held from July 18 to 21 at the Naval Air Station, Alameda, Calif.

The purpose of the symposium, which is sponsored by the Chief of Naval Personnel, is to bring together directors of child care centers for a series of presentations, discussions and information on child care center management and operations.

Ms. Walsh, who has been director of the ESB Child Care Center at China Lake for the past four years, will be making a presentation on staff training and also will participate in a panel discussion on problem solving.

Cynthia Garvin, assistant director of the Child Care Center, will accompany Ms. Walsh to the symposium at NAS Alameda. Among the topics to be covered will be BUPERS insurance coverage, naval facilities' building and fire codes, the Navy Bureau of Medicine child care standards, and federal Health, Education and Welfare guidelines.

The ESB Child Care Center at China Lake operates regularly on weekdays from 7 a.m. to 5 p.m. with a full-time staff of eight



Polly Walsh

members — all of whom have at least 12 units of college level classwork in child development training.

In addition, when there is a squadron party by VX-5 or other sizeable groups on the Center, special arrangements can be made with the Child Care Center for providing after-hours care of youngsters.

The Child Care Center is open to youngsters from 6 months through 9 years of age who are the dependents of NWC employees or military personnel. Some 70 children attend full time, but with the facilities that are available there is space reserved for parents who wish to drop their youngsters off while they have a doctor's appointment, must attend a college class,



IT'S PUZZLE TIME — A group of pre-schoolers enrolled at the Child Care Center try their hand working on puzzles, with the help of Lahoma Boyd, a staff member. The children are (facing camera, from left) Corrine Corriolo, Ian Clark and Monica Brayman. The youngster nearest the camera is Bryan Daberi.



STORY TIME — Cynthia Garvin, assistant director of the Employee Service Board's Child Care Center, shares a story with (l.-r.) Michele Lellis, Jeanine Zerr, Dirk Hartman (in foreground) and Michelle Martineau. This is one of the Child Care Center's regular activities for pre-kindergartners. — Photos by Ron Allen

go shopping or attend a meeting.

The ESB Child Care Center offers a program that is designed to supplement training in the home by providing experiences aimed at helping the child in his or her total growth — intellectually, physically, and emotionally. While the program is an educational one that offers assistance in the development of pre-reading, pre-writing and pre-math skills, the instructors strive to make the atmosphere as close to home-like as possible.

Ms. Walsh has a primary teaching certificate from the State of Tennessee, and has studied the Montessori method of teaching children, in addition to taking classes in child development offered by the University of California at Riverside, UC San Bernardino and Cerro Coso Community College.

She emphasized that it is the teamwork

among all staff members involved that leads to a good child care center program. In this regard, she is happy to have the help of the following staff members:

Ms. Garvin, the assistant director, who is in charge of pre-kindergartners (youngsters 3½ to 5 years of age); Virginia Orozco and Pam Bradley, who work with infants 6 months to 2 years of age; Lahoma Boyd, the instructor of pre-schoolers 2½ to 3½ years old; Sandra Franks, who is involved with extended day care attendees who are dropped off at the Child Care Center after the regular school day ends; and Jennifer LaFromboise, an aide who assists where needed with any and all of the various age groups.

In addition, the daily snacks and well-balanced hot lunches that are served are prepared by Freddie Adair.

Promotional Opportunities . . .

(Continued from page 2)

Aerospace Engineer, GS-861; Chemical Engineer, GS-893; Physicist GS-1310. The incumbent assists the project manager in the development of specialized electronic countermeasures hardware and systems. Responsible for the design, fabrication, test and evaluation of a novel countermeasures systems in on-going Army/ Navy test program. Will control and coordinate this program which involves tests both on Center and off Center. **Job Relevant Criteria** — Broad background of knowledge and experience in engineering and physical sciences. Must have ability to work closely with engineers and scientists of various disciplines and other government agencies and contractors. Demonstrated ability to communicate, orally and in writing.

File applications for above with Charlotte Sieckowski, Bldg. 34, Rm. 208, Ph. 3118.

Supply Clerk, GS-2005-5, PD No. 7825026N, Code 2572 — This position is in the Customer Service Branch, Control

Division, Supply Department. Incumbent will act as contact point for all procurement requests for material, equipment, forms, printing, publications and services. Duties include receiving, reviewing, and analyzing procurement request to assure needed data and approvals are given; assign priority; determine source of supply, funding requirement, document preparation and coding, submission channel, etc. **Job Relevant Criteria** — Knowledge of the Federal Supply System; knowledge of the supply functions and procedures; ability to meet and deal effectively with others; ability to plan and organize work and establish priorities; ability to work independently. **Promotion Potential:** GS-6.

File applications for the above with Ginger Hamaty, Bldg. 34, Rm. 212, Ph. 3271.

Electrician, WG-2805-8, JD No. 316N, Code 25421 — Temporary NTE 1 yr. Positions are in the Electric Shop, Maintenance-Utilities Division, Public Works Department. The purpose of this advertisement is to establish a register to fill temporary (not to exceed one year) electrician vacancies. Maximum time in an appointment of this type will be 12 months in any 24 month period. NWC will accept applications from reinstatement eligibles, individuals currently on Civil Service Register, and individuals not on registers who have skills necessary to qualify for this position. The incumbent works with qualified journeymen electrician or under the direct supervision of the foreman in the accomplishment of electrical work in industrial field such as industrial wiring, trouble shooting and shop repair. **Job Relevant Criteria** — Knowledge of electrical theory; use of electrical test equipment; knowledge of electrical equipment and technical practices; trouble shooting; electrical drawings; hand and power tools; safety and dexterity; ability to do the work of the position without more than normal supervision.

File applications for the above with Evelyn Hughes, Bldg. 34, Rm. 100, Ph. 2049.

Architect, GS-808-12, PD No. 7826031E, Code 2637 — This position is located in the Architectural and Specifications Branch, Engineering Division, Public Works Department. This branch provides architectural design services and contract documents for construction of new facilities and alterations/ additions to existing facilities. The primary purpose of this position to provide specifications and cost estimates for contract accomplishment of construction and maintenance/ repair work. **Job Relevant Criteria** — Demonstrated ability to evaluate and compare various construction systems in regard to first cost, long-range operation and maintenance; ability to write and assemble contract specifications in a concise, clearly understandable format; demonstrated ability to make accurate decisions concerning methods of construction and materials to be used in the construction and alterations of facilities.

File applications for the above with Marge Stanton, Bldg. 34, Rm. 210, Ph. 2032.

The Rocketeer

Official Weekly Publication
Naval Weapons Center
China Lake, California

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NWC Commander

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Due to holiday, few games played in softball league

The Fourth of July holiday put a crimp in the number of games played last week in the China Lake Intramural Softball League.

Just two contests took place on Wednesday night of last week in the Women's Division. In the first tilt, CSC shut out the Frisbee team, 17-0, while the Merchants, who are a game out of first place, trounced JD's 15-2.

Linda Bengston pitched a 1-hitter in the CSC win over Frisbee. CSC's 16-hit attack was led by Mitzi Patterson, who hit two singles in two trips to the plate, scored two runs and was credited with four RBIs.

Midge Hiatt also singled twice in two at-bats and scored two runs, while Teresa Daugherty was two for three at the plate and tallied three times for CSC.

Big news last week in the Men's Slow Pitch Division of the Intramural Softball League were the first losses of the season by the Homestead and the Zephyrs.

The Homesteaders, who have a 11-1 record, were knocked off, 10-9, by the Knights on Wednesday of night of last week, and the next evening it was the Zephyrs turn to take a fall as they lost to Pizza Villa by a score of 10-7.

Scores of other games played in the Men's Slow Pitch Division were: Shacklets 9, VX-5 4; Rat Pack 27, SC 8; NWC O's 13, CSC 9, and Grand Good 18, Marauders 7.

League standings at the beginning of this week were as follows:

China Lake Intramural Softball League standings				
Women's Fast Pitch Div.				
Team	Won	Lost	Tied	
Time Out	9	0	1	
Merchants	9	1	1	
Flower Shop	7	3		
JD's	4	6		
CSC	3	7		
Frisbee	2	9		
Charlie Brown	1	9		
Slow Pitch National Div.				
Homestead	11	1		
Pizza Villa	8	3		
Shacklets	7	4		
Sports Etc.	6	6		
NWC O's	3	10		
Rat Pack	2	10		
Marauders	2	11		
Slow Pitch American Div.				
Zephyrs	10	1		
Blacksheep	9	3		
Knights	9	3		
Bird Olds	7	5		
Grand Good	6	4		
VX-5	3	9		
CSC	1	12		



ALL-STAR HURLERS — Steve Kaupp (standing at right), manager of the China Lake Little League all stars, and Jim Means (kneeling), the coach, look over the squad's pitching prospects during a practice session in preparation for tournament play next Friday, July 21, in the town of Independence. The five prospective starters are (l.-r.) Steve Vie, Danny Graftan, Daniel Means, Timmy Lewis and Rickie Hunt. The China Lakers will oppose their counterparts from Owens Valley in their first tournament tilt.

— Photo by Ron Allen

VX-5 wins 1977-78 Admiral's Cup trophy competition

Admiral's Cup competition for 1977-78 came to a conclusion last Friday with a track meet held at Kelly Field on the Murray Junior High School campus.

Athletes representing NWC North won the track meet, outscoring VX-5 28-23, while the NWC South team was a distant third with

just 3 points.

The second place finish by VX-5 in the track meet was more than enough to clinch the Admiral's Cup perpetual trophy, which was accepted on behalf of the Vampires by Capt. L. E. Giuliani, Commanding Officer of the squadron. Final point standings in the

past year's Admiral's Cup competition were: VX-5, 44 points, NWC South, 32, and NWC North, 26.

During an all hands picnic at the Chief Petty Officers' Club which followed the track meet, a trophy was presented to AZ2 Sam Goode, of NWC North, who was the outstanding individual athlete of the past year.

The track meet, which turned out to be a battle between NWC North and VX-5, began with a 100 yd. dash for men that was won by Kelvin McSwain of VX-5. His winning time was 10 sec. flat. Second and third place runners-up were John Everson and Sam Goode, of NWC North.

In the women's 100 yd. dash, the winner was Florence Moran, who was clocked at 15.2 sec. Robin King and Sherry Floyd, of NWC North, placed second and third, respectively.

In the mile run for men, Everson, of NWC North, crossed the finish line first. His winning time was 5 min., 40 sec. Harry Beasley of VX-5 came in second and Jerry Bannister of NWC North was third.

The NWC South team picked up its only points of the meet (3) for placing second in the 880 yd. relay race. Winner of this event was the NWC North team composed of Chuck Pike, Steve Lampkin, David Green and Sam Goode. Their winning time was 1 min., 49 sec.

In the field events for men, a toss of 44 ft., 7 in., won the shot put competition for John McElwain of NWC North. Gregory Parrish and Clare Bingham, both of VX-5, placed second and third, respectively.

Cindy Fox, of VX-5, won the women's softball throw for distance competition with a mark of 175 ft. Robin King, of NWC North, was a distant second in this event with a toss of 118 ft.

SPORTS TROPHIES PRESENTED — Doug Nelson (center), athletic director at China Lake, presents the Admiral's Cup perpetual trophy to Capt. L. E. Giuliani, Commanding Officer of Air Test and Evaluation Squadron Five (VX-5), and the outstanding individual military athlete of the year trophy to AZ2 Sam Goode. The presentations took place following the Admiral's Cup track meet which was held last Friday.

— Photos by Ron Allen

Navy officer, wife to compete in 10km run in beach area

Lt. John Everson and his wife, Elaine, will be among the throng of entrants expected to compete in a Santa Monica Track Club 10 kilometer run on Sunday.

The race, which will start at 8 a.m. in the vicinity of Ocean Park and end up at Marina del Rey, will follow a course that has been laid out along ocean front streets and alleys.

Trophies will be awarded to the winners in each of the various age groups of the competition in both the men's and women's divisions of the race, and there will be medals for second and third place runners-up.

Lt. Everson, who was one of the organizers of the recent Navy Relief Society "fun run" from Kernville to China Lake, also is planning to take part in a 10 km run that will take place at Mammoth Lakes on Sunday, Aug. 6.

Local area runners interested in participating in this event can arrange to obtain entry blanks by calling Lt. Everson at NWC ext. 5297 or, after working hours, at 446-5436.



3 COMPETE IN 100 YD. DASH — Kelvin McSwain (at left) won the 100 yd. dash event during the Admiral's Cup track meet. The speedy sprinter from VX-5 posted a winning time of 10 sec. flat. Runners-up in second and third place for NWC North were John Everson and Sam Goode (at right).

Action continues to wind down in Minor Division of China Lake Little League

Action is continuing to wind down in the Minor Division of the China Lake Little League.

Two games leading up to a clash between the Cardinals and Pirates that was necessary to determine the Minor Division champion for the first half of the season were played last week. The results were Pirates 8, White Sox 5, and Cardinals 19, Royals 6.

Bobby Black and Tony Padgett scored 2 runs each for the Pirates in their victory over the White Sox. Pete Aguon tallied 4 runs during the Cardinals' lopsided win over the Royals.

Aguon hit a home run, a double and 2 singles, while his teammates Jess Anderson and Dennis Musgraves had 3 hits and scored 3 runs each.

In addition, the Cardinals and Indians, who had battled earlier to a 10-10 tie, played off the tie in a game that ended in a 14-10 victory for the Cardinals. Brian DeKay's double was the key hit in a 4-run, seventh inning outburst by the Cardinals, whose win earned them a first half playoff berth.

The Cubs, who had a 4-1 record at the end of last week's play, are the leaders in the second half of play in the Farm Division of the China Lake Little League.

The division leaders were knocked off, 12-10, by the Reds, who were paced by Ramon

Heard's home run and a double, which accounted for 2 runs, while Jim Wilson, also of the Reds, tallied 2 runs on 3 hits in the game with the Cubs.

Results of other games played last week in the Farm Division were:

Expos 13, Red Sox 12; Mets 15, Angels 8; Reds 12, Padres 8; Cubs 10, Expos 9, and Red Sox 17, Angels 10.

Youth basketball league registration underway

Registration is now being taken from Youth Center members 6 through 14 years of age who are interested in playing summer league basketball. The summer season will begin on Monday, July 24, and continue through Sept. 1.

Three leagues will be formed and games will be played Monday through Thursday, from 6 to 8:30 p.m., at the youth gym.

Youngsters may practice independently, or as a team, on week days from 10 a.m. to 6 p.m. at the youth gym prior to the start of the summer league basketball season.

Volunteer coaches are needed for the league. Persons interested in helping out in this capacity are asked to call Carol Hape, manager of the Youth Center, at NWC ext. 3097 or 2909 on weekdays between 7:30 a.m. and 4:30 p.m.

China Lake fire fighters play vital role in battling lumber yard blaze

Fire fighters and equipment from the Naval Weapons Center played a vital role in helping to bring under control and finally extinguish a fire that caused an estimated \$530,000 damage at the Grand Good Lumber and Supply Co., 400 S. China Lake Blvd., in Ridgecrest.

Arson is suspected as a cause of the blaze, which was reported to the Kern County fire station in Ridgecrest at 12:16 a.m. last Saturday. Shortly thereafter the China Lake Fire Division received a call for assistance and acting under the terms of a mutual aid agreement, firefighters were dispatched to the scene.

Dick Rivers, an assistant fire chief, and a pumper truck with its 4-man crew from Fire Station No. 1 were the first members of the NWC Fire Division to respond. Not far behind was the China Lake Fire Chief, Richard E. Rightner, who was off duty at the time.

Bill Brown, a captain in the Kern County Fire Department, was in charge of the fire fighting effort. He directed the first China Lake firemen who reported to begin running their fire hoses to protect private homes behind and the El Dorado Motel which was adjacent to the burning lumber yard.

Due to the magnitude of the fire, more help was summoned from the NWC Fire Division to join with the Kern County fire units and the Ridgecrest volunteer firemen and their pumper truck, and another county fire truck that was rushed to Ridgecrest from Inyokern.

The first NWC fire truck sent to the scene was soon joined by three others and their crews and an ambulance. A total of 42 fire fighters from China Lake (21 on-duty and 21 off-duty) were involved either by fighting the fire at the scene or by manning reserve equipment at China Lake. The fire for a time, threatened the nearby El Dorado Motel. The motel received some smoke damage and had to be evacuated as a precautionary measure.

Fire Division pickup trucks from China Lake were used to return wet hose to the main fire station at NWC, to re-supply the firemen with air bottles for use with the self-contained breathing apparatus they each wore to prevent injury from smoke inhalation, and to shuttle off-duty fire fighters from China Lake to the fire in relief of those who were the first to be called out.

In addition, the China Lake Fire Division's rescue truck was called out. The rescue truck generator provided power for lights needed to help illuminate the scene as the fire continued to smolder in some places after the major portion of the blaze

was knocked down.

Although the lumber yard itself was still fully engulfed in flames, fire fighters succeeded in extinguishing the flames inside the store building by 1:40 a.m.

Containment of the fire in the lumber yard was reported at 2:15 a.m., but mopping up operations continued long after that — extending into the afternoon on Saturday.

The first two engine companies from China Lake were able to return a short time after the fire in the lumber yard was contained, and by 6 a.m. Saturday the last of the NWC Fire Division personnel had left the scene.

Two patrol units from the China Lake Police Division also assisted by helping to control traffic in the vicinity of the fire, and local members of REACT (Radio Emergency Assistance Citizen Team) gave their support to this effort along with Ridgecrest Police Department personnel.

Two Kern County fire fighters, Engineer Terry Broughton and Fireman Bill Dierck, were treated at the Ridgecrest Community Hospital before being released and returned to duty. Broughton suffered smoke inhalation and Dierck had first degree burns on his face and hands.

The latter had just arrived on the scene when a plateglass window on the front of the building burst from the heat and a ball of fire shot out. Had Dierck not been wearing a face shield, his injuries could have been severe or possibly fatal, according to Kern County Fire Capt. Brown.

The nearby Carl's Jr. restaurant in Ridgecrest provided free food and drink for firemen, police and volunteers on the scene, and invited the firemen to have breakfast while the mop up operations were underway on Saturday morning.

Kern County Fire Department and China Lake Fire Division personnel spent considerable time training together in order to be better prepared for emergencies such as the Grand Good Lumber and Supply Co. fire. The rapport between the two fire fighting organizations is a definite plus towards better fire protection for the entire community. The officers and men of both activities are to be congratulated for their professional performance during the Grand Good Lumber Co. fire.

Damage to buried cable causes power outage Sunday night

A power failure cut off electricity in a large part of the Naval Weapons Center housing area on Sunday night when a damaged underground cable located at Schoeffel Field shorted out, blowing switches and cutouts.

The outage occurred between 8:30 and 9 o'clock when the lights were turned on at Schoeffel Field. The area affected included most of the "officers' hill" housing area and areas near Schoeffel Field and the Branch Medical Clinic.

The cable had been damaged by a ditch digger Saturday, but it did not short out until switches were thrown to turn on the Schoeffel Field lights.

Power was restored to the blacked out areas in about 30 minutes, and the cable was repaired by a crew of Public Works Department electricians by 3 p.m. Monday.

Dave McKinney, a Public Works power and communications foreman, said the outage was the most serious experienced by the Center since the snow storm two winters ago.

However, he said that short outages in small areas often occur during high winds.

McKinney said that Center residents and employees should report outages and power lines lying on the ground or hanging loose from poles by calling the Public Works Trouble Desk on NWC ext. 2268.

Under no circumstances should downed power lines be handled by anyone except Public Works Department repairmen dispatched to the scene, he warned.

Series of explosives tests at G-2 range due to begin tonight

Provided that proper weather conditions prevail (i.e. the winds are not too strong), a series of explosives tests will be conducted tonight, starting at around 9 o'clock, and will continue throughout the night and early morning hours on Saturday at the G-2 range gunline, which is located approximately two miles northeast of the China Lake-Ridgecrest area.

The tests call for the detonation of 1 lb. reference charges and the firing of a 5-inch naval gun. A total of 32 firings is planned during a period of 10 hours.

Purpose of the test project, which is being sponsored by the Naval Surface Weapons Center in Dahlgren, Va., is to produce data for predicting the distant sound profiles for guns.

At the very least, there will be one test period of 10 to 12 hours during which the 5-inch gun will be fired a maximum of 32 times, and one shorter test period with up to 12 firings. Prior to each firing of the naval gun, a 1 lb. reference charge of C-4 explosive will be detonated for sound calibration purposes.

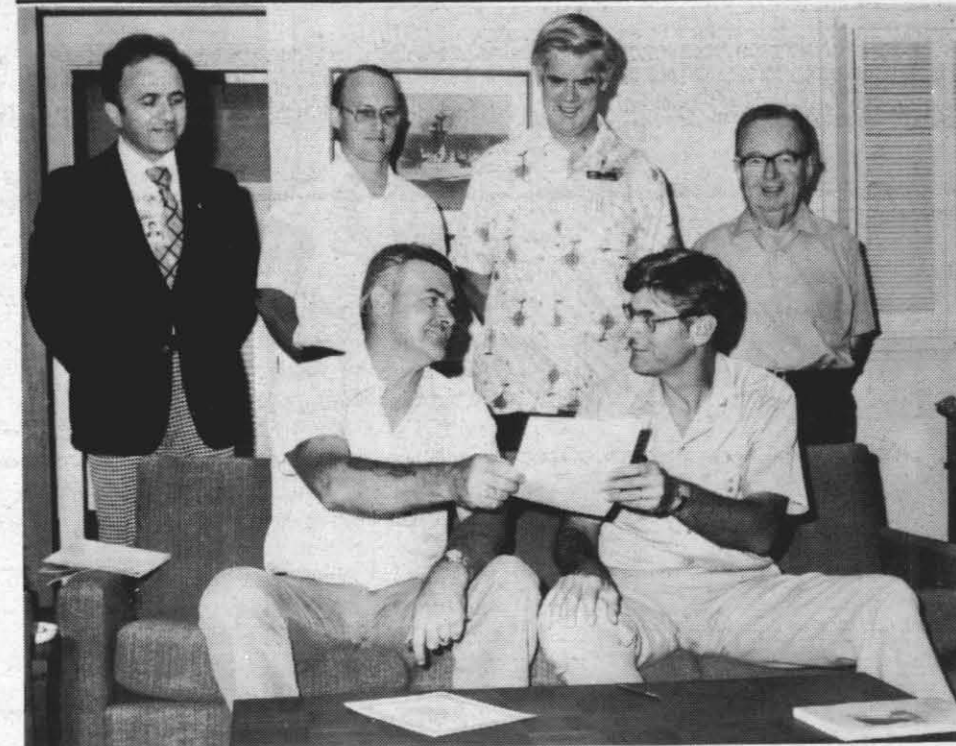
The tests will be conducted during the night and early morning hours because the type of atmospheric conditions that are required occur only during this time.

In the event that the test is not completed between tonight at 9 and 7 a.m. Saturday, additional test periods are scheduled to start at 9 p.m. on Monday, Thursday, Friday and Saturday, July 17, 20, 21 and 22, and continue until noon of the following days.

Because the atmospheric conditions desired for these tests are expected to enhance the transmission of sound, residents of Ridgecrest, China Lake, Inyokern and other portions of the Indian Wells Valley may hear the gun being fired.

While it is difficult to predict, it is believed that light sleepers may be awakened in the late evening or early morning hours. Every effort will be made to minimize the problem.

Any inconvenience experienced by the people of the community is sincerely regretted.



PROCLAMATION SIGNED — The local observance of U. S. National Space Week, July 16 through 22, has been launched by the signing of a proclamation by Capt. F. H. M. Kinley, NWC Vice Commander, and (seated at left) Don Chize, Mayor of Ridgecrest. The proclamation signing was witnessed by (standing, l.-r.) James E. Serpanos, Bruce Bartels, Tony Miller and John Cox who are members of the American Institute of Aeronautics and Astronautics, California Society of Professional Engineers, American Society for Quality Control, and American Society of Civil Engineers, respectively — four of the nine engineering societies whose local chapters have made the arrangements for the annual observance of Space Week here.

— Photo by Ron Allen

Trip to inspect space shuttle plant, dinner set during Nat'l Space Week

This year's observance of U.S. National Space Week, which is being held to commemorate the ninth anniversary of the Apollo II flight to the moon, will be highlighted by two special events that are open to all interested persons.

The first of these will be a dinner and program next Friday, July 21, at the Commissioned Officers' Mess. A social hour will precede the 7 p.m. dinner, and the program, which will feature a talk on "Space Travel and Communications," will follow at 8.

Master of ceremonies for the occasion will be William J. Werback, head of the Systems Development Department's Structural Mechanics Branch, and the featured speaker will be Dr. Norman L. Chalfin, a member of the staff of the Office of Patent Counsel at the California Institute of Technology.

Also a part of the local observance of Space Week will be a tour of Rockwell's space shuttle facility which is to be held on Saturday, July 22, starting at 1 p.m. Both events are being arranged by the local chapters of engineering societies that have formed the High Desert Engineering Association (HIDEA).

The guest speaker, who has a Doctor of Jurisprudence degree from the Southwestern University Law School in Los Angeles, joined the Jet Propulsion Laboratory (JPL) in 1966 and transferred to Caltech last year. At the present time he is involved in digging out new technology developed in the course of JPL work in the field of space travel, communication and energy projects.

During his talk here next Friday night,

Baggers at Commissary Store placed on salary

A recent Civil Service Commission ruling that makes Commissary Store baggers salaried employees means that Commissary shoppers will have to bag their own groceries or pay up to two percent extra on their grocery bill to have someone do it for them.

In the past, bagging and carry out service was performed by baggers who relied on cash tips as their sole compensation. As a result of the ruling, baggers working at military Commissary Stores in the U.S., Guam, and Puerto Rico will receive salaries instead of tips, effective July 30.

At least one checkout lane at each Commissary Store will be set aside for self-bagging by the customer, and no service fee will be charged at this lane.

New look to be taken at training for NWC scientists, engineers

Recent re-examination of the professional training the Naval Weapons Center offers its scientists and engineers has resulted in a stronger management commitment to training resources currently available and in creation of some new opportunities in continuing education.

"The need for taking a new look at training for NWC's scientists and engineers arose from the convergence of several trends," said Clara E. Erickson, head of the Personnel and Organization Development Division (Code 094). "These trends include a slowdown in numbers of new research and development professionals hired, and a consequent increase in the average age of the specialized professional employee."

"At the same time, our expanding technology has resulted in the onset of rapid technical obsolescence for the individual worker. Another trend is toward less independent contact with hardware and more interdependent engineering work where individual impact is hard to assess."

Further complicating the picture, Mrs. Erickson pointed out, is a change in the work ethic itself. "The belief that hard work in and of itself is valuable is declining," she said, "and the belief that work should be one of a number of means of self-expression is increasing."

Recent Action Taken

Center management has recently taken action to come to grips with the burden these trends place on a program of continuing education for scientists and engineers.

"Our technical and professional training program must remain responsive to the changing needs of the professional workforce," said Robert M. Hillyer, NWC Technical Director. "An active commitment has been made to expand available training options to meet the challenge of maintaining professional vitality in a changing work environment."

"I consider it incumbent upon laboratory management to make available the resources for the technical staff to maintain and increase currency and competency, and it is incumbent on our technical staff to take advantage of these opportunities," Hillyer said.

New programs now in the formative stages will be added to an impressive list of courses already available through Code 094. Already offered are a wide variety of on-center short courses, courses taught at other government installations and universities, correspondence and other self-instructional programs, and long-term training opportunities.

Among new training programs now in the planning stages is a video tape graduate certificate program for mechanical engineers that will be offered as an extension service of the University of California at Davis. Beginning in the fall, this program will involve local tutors as well as specialized instructional materials from the university; it will be conducted through the Personnel and Organization Development Division.

A more explicit Center policy on training will also be an outgrowth of top management effort in this area, as will be a restructured supervisory training program that will strongly emphasize the employee development aspect of a supervisor's responsibilities.

Employee Began Study

The professional training improvement effort began last March when Jim D. Andrews, an employee of the Ordnance Systems Department's Solid Propulsion Branch (Code 3274), made a presentation to the NWC Technical Planning Board on the problem of technical obsolescence as it relates to continuing education for scientists and engineers.

Stating his feeling that maintaining technical expertise through continuing education is a matter of life or death for an R&D organization, Andrews suggested some avenues that might be explored to increase emphasis on this important training area. Acting on one of Andrews'

suggestions, the Technical Planning Board formed a special study group, the Science and Engineering (S&E) Education Study Group, to provide direction and top management support for an expanded professional and technical training program at NWC.

Under the chairmanship of Leroy D. Marquardt, associate head of the Electronic Warfare Department (Code 3501), the S&E Study Group has been meeting monthly since that time to define problems and concerns and to make recommendations for action. Other members of the group are Capt. William B. Haff, Deputy Laboratory Director (Code 03A); James R. Wills, assistant head of the Fuze and Sensors Department (Code 3301); Dr. Edwin B. Royce, head of the Research Department (Code 38); Mrs. Erickson; Vicki Ayers (Code 094) and Andrews.

Concerns Formulated

The group began with a "chicken or egg" discussion on the relationship of technical obsolescence to a generally felt lack of technical challenges. "If employees are not challenged by their work they may not feel motivated to receive further training," explained Marquardt. "This would then contribute further to their obsolescence."

The group agreed that by providing more opportunities for challenging work assignments and stimulating technical training options, the Center could break this self-defeating cycle.

With this concern in mind, the group began work on development of an active program of management support for challenging educational opportunities. Working in close communication with the Technical Planning Board, the group began the process of defining training needs and strengths.

An important part of this definition phase has been communication with the Center's aerospace and mechanical engineers. To facilitate this communication, two meetings were set up with these 540 NWC engineers were invited.

About 115 engineers attended the meetings and 81 returned questionnaires designed to further define the training problem. The 81 engineers responding in-

dicated dissatisfaction with professional training currently provided by NWC. (The most recent ME program offered through USC was discontinued in 1975 due to lack of enrollment.)

Results Not Representative

"It should be remembered that these results show the feelings of only 15 percent, perhaps the most dissatisfied segment, of the engineers contacted," Mrs. Erickson cautioned. Results of this sample showed that 56 respondents are unhappy with the professional training currently provided at NWC. Most respondents also felt that more importance should be placed on professional training by Center management than is currently the case.

A wide range of needs expressed included suggestions that courses be offered in such subjects as energy conservation, stress analysis, fluid mechanics and thermodynamics, and mechanical design. Respondents indicated unhappiness with a perceived trend away from technical

Training Survey

On June 28, a survey was sent by the Personnel and Organization Development Division to the 81 engineers who had responded to an earlier survey described in this issue of *THE ROCKETEER*. This second survey is being conducted to determine which video courses to offer in September.

So far only 23 responses have been received. Other employees who wish to complete the survey are encouraged to pick up their survey forms at the Training Center.

engineering courses. Half of the respondents said they would be very receptive to academic coursework provided through video tape.

Following analysis of this questionnaire, the S&E Study Group met in May and agreed on three recommendations: to reinstitute a program for mechanical engineers, to restructure the supervisory training program to emphasize responsibility for employee development, and to develop a more explicit Center policy on professional and technical training. At a subsequent meeting with Marquardt, Capt.

Haff, and Erickson, Hillyer also agreed with these recommendations.

In a follow-on effort, Marquardt, Andrews, and Ayers traveled to the UC Davis campus in June to pursue the possibility of offering the university's video tape graduate certificate program for mechanical engineers at NWC. Results of the trip were encouraging, and current plans are to begin the program here in September.

Supervisory Responsibility Stressed

Also in the works is a training program for new supervisors, much more explicit than the present generalized 40-hour requirement. Supervisors will be taught to consider employee development programs not just as ladders for career development but also as essential tools for maintenance of vital technical skills. They will also learn skills to increase their competence in development counseling for their employees.

Included in the new Center policy on training presently being formulated will be an increased emphasis on long-term training. Hillyer expressed concern about the decreasing interest of the Center's technical employees in continuing their technical education but admits that this may in part be due to management's recent emphasis on program management training.

Calling the NWC Fellowship program "a somewhat neglected resource," Hillyer pointed out that during the coming year only about a dozen Center employees will be taking advantage of a program that was designed for participation of up to 20 employees per year.

In addition, it was agreed that Code 094 will publicize more information on the NWC professional development program. Outgrowths of this decision have been this article and a longer paper, now in preparation, that summarizes history and plans for continuing professional education. It will be distributed soon to all technical work groups.

Also slated for increased emphasis is the engineer-in-training (EIT) program, a two-pronged effort that provides licensing or certification for professional engineers as well as a means for technicians to become engineers.

"In addition to the new programs being developed, we will continue efforts to make short courses as relevant as possible to training needs," Mrs. Erickson said, adding that this year's inputs to the Center's annual training plan were very helpful in that respect.

Luncheon honoring employees who have earned degrees set

A luncheon honoring Naval Weapons Center employees who have earned various degrees ranging from bachelor of science to a Ph.D. will be held next Thursday, July 20, at the Enlisted Mess.

Keynote speaker at the luncheon, which is scheduled from 11:30 a.m. to 12:30 p.m., will be R. M. Hillyer, NWC Technical Director.

A group of five China Lakers have received BS degrees in business administration from Cal-State Bakersfield, and five others are the recipients of master's degrees in public administration from the University of Southern California.

In addition, there are seven Centerites who completed the Navy Postgraduate School course in systems acquisition management, four others are recipients of NWC Fellowships, and one employee has completed the work for his Ph.D. degree.

All NWC employees, supervisors, program participants and their spouses are invited to attend next Thursday's luncheon. Reservations are required and must be made no later than Monday by calling NWC ext. 2359.

The luncheon menu will include a choice of fruit salad, chef's salad, or pork chops and dressing for \$2.20 per person.

—Photo by Ron Allen



VISITORS WELCOMED BY TECHNICAL DIRECTOR — R. M. Hillyer (at right), NWC Technical Director, was present in the lobby of Michelson Laboratory on Wednesday of last week to welcome two special visitors — Leonard Weisberg and Capt. Ronald Johnson, USN. Weisberg, who is from the Office of the Deputy Under Secretary for Defense (Research and Engineering), is the Director of Electronics and Physical Sciences. He was briefed on NWC's test and evaluation activities, and visited both the Randsburg Wash area, and the anti-radiation laboratory. Capt. Johnson hails from the Office of the Deputy Chief of Naval Operations (Air Warfare), where he is head of Air Weapons Systems. During his stay at China Lake, he was brought up-to-date on the Sidewinder and Sparrow missile programs, learned about on-going work that is being carried out in the Weapons Department's Air-to-Air Systems Office, and was briefed on matters pertaining to the Phoenix fuze.

Paperwork cut...

(Continued from Page 2)

of information as 200 standard printed pages. ("Let's protect our forests and make do with less paper," says Solberg.)

An increasing portion of the work of the division has grown from adhering to the provisions of the Brooks Bill, which was passed in 1965. The Brooks Bill requires close monitoring and control of all the government's automatic data processing equipment. Master records must be maintained regarding what equipment is owned, by whom and for what purpose it is used, and the costs of such operation.

The original concerns addressed by the Brooks Bill — and still prime concerns — were the proliferation of ADP costs and the security of the data stored in memory banks. The information, much of it protected under the Privacy Act, must be secured from tampering or misuse. While at first only the management data processing equipment was covered by Brooks Bill provisions, now all computers on the Center are.

Mammoth Problem Created

This creates a mammoth problem since there are an estimated 300 computers of varying sizes scattered throughout NWC, in addition to the giant Univac 1110. Bill Huston of Code 084 is working with Ed Shramko of Code 313 to develop an automated system (a computer program) to keep track of the computers.

Supervising the ADP use on the Center is the ADP Council, consisting of Bruce Wertenberger, of the Test and Evaluation Directorate's Long Range Planning Office; Lee Lakin, head of the Computer Sciences Division in the Systems Development Department; Warren Oshel, assistant head of the Quality Assurance Division in the Range Department; and Solberg, representing the Office of Finance and Management.

Anyone on the Center may call on the expertise of the personnel from the Advanced Business Systems Division for consultation. Their skill and knowledge of business and financial systems is enhanced by the variety of their backgrounds, which includes degrees in mathematics and engineering, as well as business.

Bluejacket...

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Capt. Guilliani congratulated AQAN Lenz for his energetic and dedicated performance which "has contributed significantly to the squadron's accomplishment of its mission."

AQAN Lenz is a native Californian and a graduate of Merced High School in Merced, Calif. Following recruit training at the San Diego Naval Training Center, he attended Aviation Aircontrolman "A" School in Memphis, Tenn., and A-6 familiarization school at Whidbey Island Naval Air Station, Oak Harbor, Wash.

Because of his selection as Bluejacket of the Month, AQAN Lenz will receive a weekend trip for two to Bakersfield under the sponsorship of Walter Heisey, owner of Bakersfield Sandstone Brick, who will escort AQAN Lenz on a tour of his company.

Besides having his room and meals paid while in Bakersfield, he will also receive the loan of a new Ford from Desert Motors in Ridgecrest for the round trip.

NAS Whidbey to be site of annual Intruder Ball

The twelfth annual intruder Ball will be held at the Whidbey Island Naval Air Station, Oak Harbor, Wash., on the evening of July 29. All present and former A-6 pilots and navigator-bombardiers are invited to attend, the affair's publicity chairman said.

Special events leading up to the ball will begin the preceeding weekend.

The annual fete is being sponsored by the medium attack squadrons stationed at NAS Whidbey Island, and further information may be obtained from Lt. Kevin R. McCauslin by telephoning (206) 257-2337 or Autovon 820-2337.

The address for mail contacts is Attack Squadron 128, NAS Whidbey Island, Oak Harbor, Wash. 98278.



AUTO-TUTOR INSTRUCTORS AVAILABLE — Elizabeth Wilkie, of the Naval Weapons Center Library, selects an instruction tape for play on an Auto-Tutor programmed instructor video machine. The machines are available for use by NWC Library patrons for either credit or non-credit instruction.

Photocopier, typewriter, video tutoring available at library

The Naval Weapons Center Library now has a photocopy machine and a manual typewriter for patron use, and its Auto-Tutor programmed-instructor video machines have been moved into a separate room.

The photocopy machines reproduce "fine copies" on 8½-by-11 in. paper for 10 cents per copy, Librarian Mike Santone said.

The typewriter is in a special room and may be used free of charge; however, persons using it must bring their own paper and typing supplies. The library will not have change for the copy machine, and persons who use it must bring enough dimes for the number of copies they are going to reproduce, Santone said.

The Auto-Tutors provide instruction in a variety of fields, including English grammar and other written communications skills, mathematics, electronics and the trades.

They may be used by persons on either a credit or non-credit basis. To receive credit for an Auto-Tutor course, a student must submit a training and authorization request to Code 094 via department channels.

Examinations are administered by the Training Division after completion of an authorized credit course.

No authorization or permission is needed to use the machines for non-credit study; although, the first time a person uses the machine, its operation must be explained by a library employee.

Courses cover mathematics through high school and beginning college level; elementary electricity, including trouble shooting, through second year electronics;

and basic trades skills, such as blueprint reading.

There are also some courses in basic computer math, according to Marie Duff of the Personnel and Organization Development Division. More information on available courses and requirements for credit study may be obtained by contacting Ms. Duff on NWC ext. 2686.

Following initial use of the video equipment, no further instruction is required, and the machines are available at any time when the library is open.

Ejection seat test...

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An equally important benefit, according to Stone, is the elimination of severe neck and back injuries caused by rapid parachute deployment of ejection seats currently in use. The altitude gaining feature of the VSS and the relatively long period of stabilized flight permits a delay in the opening of the parachute.

During this delay, wind resistance substantially reduces the seat's velocity, and this, in combination with the normal aerodynamic parachute opening, effectively eliminates high opening shock loads.

The inverted ejection test was witnessed by more than 150 observers who crowded the SNORT observation dock. Present were representatives from several government agencies and private firms.

"We put a lot of pressure on ourselves by inviting so many off-Center personnel," Stone said, "but the test was such a major milestone in personnel recovery systems that interest was extremely high."



ON THE MARK — The SNORT crew prepares to hoist the vertical-seeking seat test hardware into position 100 feet above the ground.

NWC 'chopper' crew aids youth injured on Kern River trip

A helping hand in order to get an injured youth to a hospital in the shortest possible time was provided last Saturday evening by a Navy search and rescue helicopter from the Naval Weapons Center.

Lt. John Everson, assigned to the Support Division of the NWC Aircraft Department, was on duty when a call for assistance was received at around 7:20 p.m.

Accompanied by ADI William H. Hornbaker, as crew chief, and PR2 Robert Alexander, as crew member, Lt. Everson flew a UH1N "Huey" helicopter to Clover Meadows, six miles north of Kennedy Meadows along a section of the Kern River, where they picked up 10-year-old John Aufdemberg, who had suffered a puncture wound in the eye, and his father, Tom, from Santa Ana.

No details were available on the cause of the young boy's injury. He was flown directly to the Ridgecrest Community Hospital heliport and, after being seen by doctors at the local medical facility, continued on his journey by Navy helicopter to Loma Linda Hospital in the Riverside area.

The Navy personnel involved in this mission of mercy left Armitage Field at around 7:30 p.m. and returned to the airfield here approximately 4 hours later.

Variety of surplus items to be sold at auction next Thurs.

A wide variety of items, ranging from tents and sleeping bags to electrical and electronic test equipment, as well as photographic gear and supplies, will be offered for sale during an auction of surplus government property that will be held on Thursday, July 20, at the Community Center.

Registration of prospective bidders will begin at 8 a.m., and the sale itself is scheduled to get under way at 9.

Those interested can inspect the many items of surplus government property that will be up for sale by paying a visit on weekdays to the Defense Property Disposal warehouse between the hours of 8 a.m. and 3 p.m.

Public participation in the auction is encouraged. Successful bidders will have until July 27 to pay for and remove items purchase before storage charges are assessed.

Robert Boot...

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before starting to work for the government at the Naval Air Development Center (NADC) in Johnsville, Pa. He has a bachelor's degree in electronic engineering and a master's degree in engineering mathematics — both received from North Carolina State University in Raleigh, N.C.

After working for four years at NADC, he moved to the former Naval Ordnance Laboratory at Corona, Calif., and with the exception of a year (1961-1962) with the Army Materiel Command in Huntsville, Ala., was at NOL, Corona, until he accompanied the bulk of the Fuze Department personnel from Corona to China Lake in October 1970.

At the time of the move to China Lake, Boot was the associate department head for research in the Fuze Department.

He was cited during the recent presentation of the L.T.E. Thompson Award for his personal contribution to Navy guided missile fuzing, leadership and management of the Fuze and Sensors Department, and for dedication to the mission of the Center.

Boot and his wife, Martha, who is a teacher in the Sierra Sands Unified School District, were married in 1948 and are the parents of four children. They are a son, Robert A. Boot, Jr., and three daughters — Sue Ellen Jones, Karen E. Martino and Carol Ann Boot.