

## MOVIES

Regular starting time — 7:00 p.m.

**FRIDAY JULY 24**  
**"NORTH DALLAS FORTY"**  
 Starring  
 Nick Nolte and Mac Davis  
 (Comedy-drama, rated R, 118 min.)

**SATURDAY JULY 25**  
**"OH HEAVENLY DOG"**  
 Starring  
 Chevy Chase and Benji  
 (Comedy-mystery, rated PG, 103 min.)

**SUNDAY JULY 26**  
**"XANADU"**  
 Starring  
 Olivia Newton-John and Gene Kelly  
 (Musical-fantasy, rated PG, 96 min.)

**MONDAY JULY 27**  
**"THE EARTHLING"**  
 Starring  
 William Holden and Ricky Schroeder  
 (Adv.-drama, rated PG, 97 min.)

**TUESDAY JULY 28**  
 2 p.m. Matinee  
**"THE CAT FROM OUTER SPACE"**  
 Starring  
 Ken Berry and Sandy Duncan  
 (Comedy, rated G, 104 min.)

**WEDNESDAY JULY 29**  
**"MY BLOODY VALENTINE"**  
 Starring  
 Paul Kelman and Lori Hallier  
 (Horror-drama, rated R, 91 min.)

**THURSDAY JULY 30**  
 2 p.m. Matinee

### Cerro Coso College to offer extensive business programs

This fall Cerro Coso Community College is offering a comprehensive program in the area of Business Administration for all interested students.

Business Law 1 acquaints students with the rules of law as related to business transactions. Emphasis is placed on the origins of the American legal system, definition and classification of law, court systems and procedure, law of contracts, the essentials of enforceable agreements, and the Law of Torts and the concept of negligence.

Financial Analysis offers students the opportunity to study the fundamentals of personal and institutional investing, including an analysis of bond issue, stock markets, and other commodities.

Introduction To Accounting presents students with the fundamentals of bookkeeping, including the "bookkeeping cycle" and its application to the business world and personal financial record keeping.

Managing Your Own Business introduces students to the procedures involved in assisting the small business owner or manager, and in determining the major policies and objectives of business, including the policies of expansion, developing assistants, buying and selling, human relations, customer service and other problems of group interest.

Principals of Accounting 1a offers students the opportunity to learn accounting concepts and techniques, including studies of interest, inventory, depreciation and accounting data processing systems.

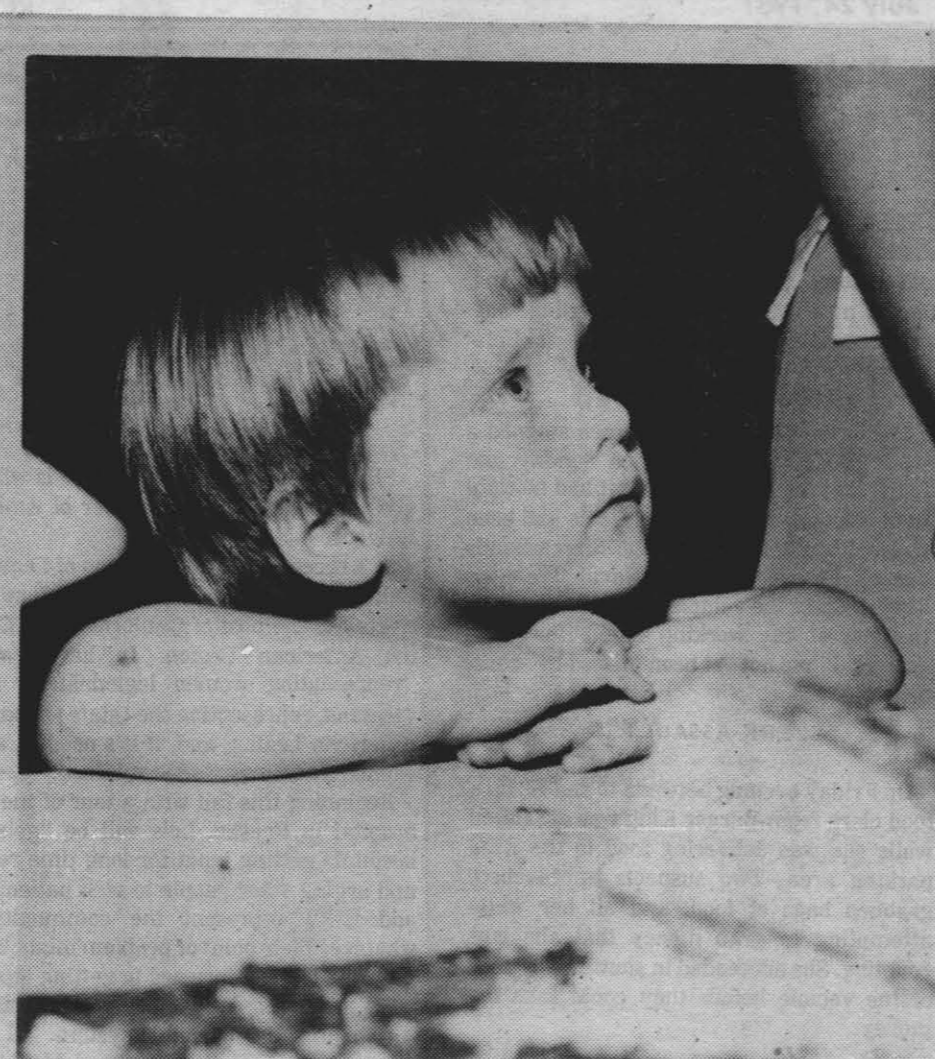
Classes begin on August 19. Late registration will continue through September 11.

Enrollment is open to all high school graduates, non-graduates 18 years of age and older, and high school students who have written permission from their principal.

In addition to the cost of textbooks, at the time of registration students who are residents of the State of California must pay a general instructional materials fee of \$5.00 to help defray duplication costs, film rentals, etc. Certain courses also require lab fees.

### Documentary shown

A special video documentary, "The Americans Time Forgot," will be available for public viewing weekdays in the Sylvia Winslow Exhibit Gallery beginning Friday, July 31 and continuing for one week.



**HUNGRY** — This youngster is anxiously awaiting ice cream to go along with cake at the annual Ice Cream Social sponsored by the Protestant women of the All Faith Chapel held last Tuesday on the Chapel lawn. The event was a success — with proceeds totaling about \$1,000, which will help the various missionaries supported by the Protestant congregation of the All Faith Chapel. —Photo by Don Cornelius

### Happenings around NWC

Discount tickets for Magic Mountain and Knott's Berry Farm may be purchased from the Recreation Coordination Office, located next to the NWC theater. Discount tickets are available to active duty and retired military personnel and their dependents and to Civil Service personnel.

Discount tickets for Magic Mountain are good all year. General admission tickets are \$8.45 and tickets for children (under 48" in height) are \$5.95. (A 15-cent surcharge will be added to all tickets purchased.)

Discount tickets for Knott's Berry Farm are also good all year. General admission tickets are \$7.00. The tickets include unlimited use of all rides and attractions except the Shooting Gallery, Rowboats and Pan for Gold.

#### RED EYE SPECIAL

A trip to Las Vegas on Friday, August 7 is being sponsored by Recreational Services. This "red-eye special" trip will leave the Recreational Services parking lot at 2 p.m. and will return at approximately 8 a.m. on August 8.

The fee, which includes transportation, is \$16 for military and \$20 for civilians. Smoking will be permitted on the van.

Registration for the Las Vegas trip is being taken at the Recreation Coordination Office on Monday through Friday from 8 a.m. to 4 p.m. For more information call the Recreation Coordination Office, NWC ext. 2010.

#### SHOPPING TRIP

Interested in a day of shopping in Los Angeles Garment District? Recreational Services Department is sponsoring a tour of the garment district on Saturday, August 1. A van will leave the Recreational Services parking lot at 6 a.m. and return from a day of shopping at 9 p.m.

The cost, which includes transportation, is \$10 for military and \$13 for civilians. Registration is being taken at the Recreation Coordination Office.

Smoking will be permitted in the van. For more information call the Recreation Coordination Office at NWC ext. 2010.

#### 'SKYSCAPES' EXHIBIT

An exciting new exhibit, "Skyscapes," representing the work of artist Chris

Quinnert, opens at Maturango Museum in Sylvia Winslow Exhibit Gallery on July 27. Quinnert paints far-off unknown places and spiral galaxies. Now age 22, he has been painting in acrylics since 1976. His paintings are on exhibit at Reuben Gallery in San Francisco and in the Kernville Gallery. Many of his canvasses may be purchased by gallery visitors. One of his works will be raffled off to boost the Maturango Museum's Gallery operating expenses.

The public is invited to a special reception for Quinnert in the Sylvia Winslow Exhibit Gallery on Monday, August 17, from 7:00 p.m. to 10:00 p.m.

#### DOCENT TRAINING

This fall Cerro Coso Community College and the Indian Wells Valley Maturango Museum will team up to offer a 10-week non-credit museum docent training program. The program will begin on September 8, featuring local experts on aboriginal and recent history, petroglyphs, desert flora and fauna, regional geology and geography, and fossils.

The program will consist of Tuesday morning laboratory sessions from 9:00 to 11:00 a.m. and Thursday evening lectures from 7:30 to 9:30 p.m. The labs will cover museum docent techniques and special school tour methods.

Designed for adults interested in becoming Maturango Museum docents, the program offers an extraordinary opportunity for exceptional training. For more information, please contact the Indian Wells Valley Maturango Museum at 446-6900.

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

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

PLACE  
STAMP  
HERE



NAVAL WEAPONS CENTER  
CHINA LAKE  
CALIFORNIA

July 24, 1981

Vol. XXXVI, No. 29

### New 06

## Schiefer takes over as head of Test and Evaluation Directorate

"We're here to support the fleet," said Gerald R. Schiefer, new head of the NWC Test and Evaluation Directorate, as he discussed his management philosophy with his staff during a meeting held on Monday, his first day in his new role.

"I see our role as being to building range capability for the Center, taking care of our people, supporting the 03 Directorate, and supporting our off-Center customers," he added.

Schiefer, who has been head of the Electronic Warfare Department since 1976, replaced Bill Hattabaugh, who moved to the Pacific Missile Test Center to head the Range Development Department at that facility.

The new T&E Directorate head brings a wealth of expertise to his job. Schiefer's technical work began while he served as an instructor of the T-38 75mm gun fire control system while he was in the Army, and continued when he worked as an electronics technician (telemetry) for the Coleman Engineering Co. during the summers he was earning his bachelor's degree in electrical engineering from the University of Utah.

After coming to China Lake in 1960 as a Junior Professional, he began working at the Supersonic Naval Ordnance Research Track (SNORT), and then transferred to the Weapons Development Department in 1961 where he designed the control section electronics, telemetry systems, and test set for the Shrike missile. By 1964, he was ap-

pointed head of the Shrike Test and Evaluation Group, in which role he made five trips to Vietnam and Southeast Asia to consult on defense suppression.

His outstanding work with Shrike during the next few years led to his being made program manager for the HARM Program Office when work on that weapon system began. Schiefer's contribution to the HARM Program was acknowledged by his receiving the Michelson Laboratories Award for Engineering in 1974.

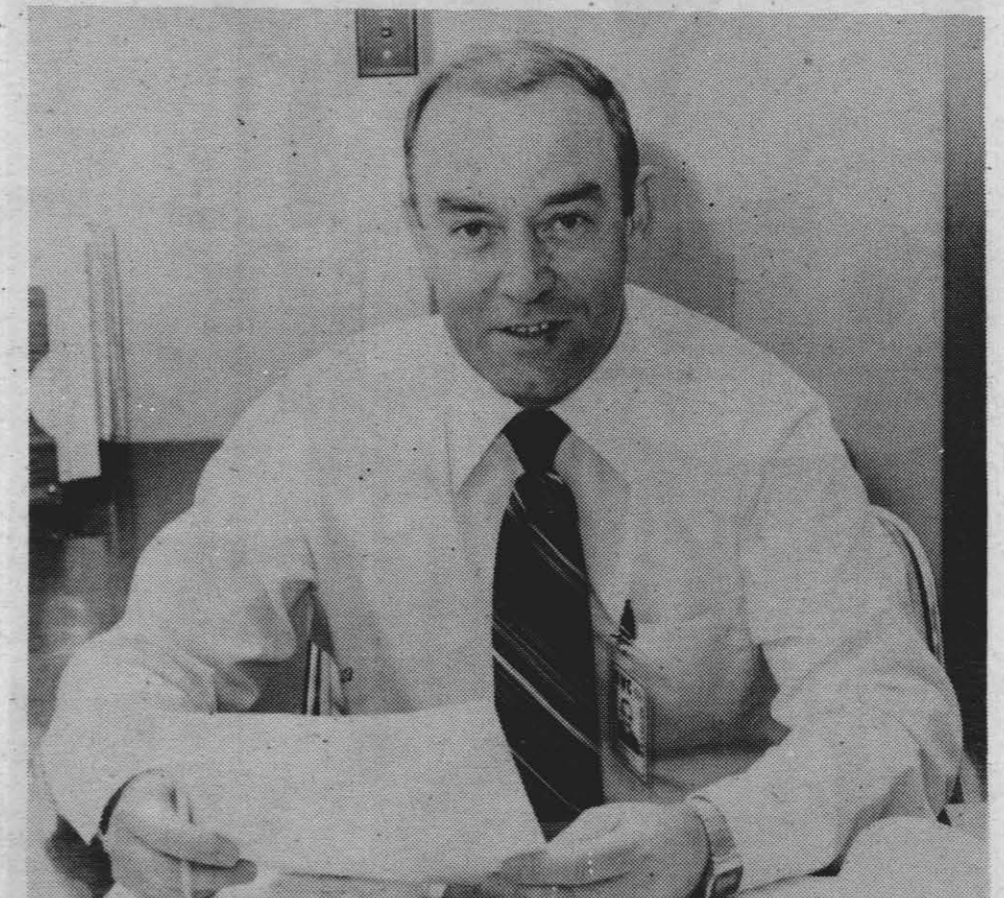
#### SERVED WITH NSAP

He then spent a year as Science Advisor to RADM. P. R. Monroe, Commander, Operational Test and Evaluation Force, Norfolk, Va. On his return to the Center, he was appointed as head of the Electronic Warfare Department.

Schiefer's outstanding work on both the Shrike and the HARM Programs was recognized by his being presented the L.T.E. Thompson Award, the Center's highest recognition for outstanding individual achievement, in 1979.

Schiefer has the distinction of being one of only two people born in Zion National Park (his father was a Park Ranger there). His enjoyment of the out of doors as a back-packer and hiker no doubt stem in part from his growing up in Zion; he shares this enjoyment with sons Scott, a senior at Burroughs, and Charlie, an 8th grade student, and their Scout troops.

He and his wife Loretta are also parents of



**NEW DIRECTORATE HEAD** — Gerald R. Schiefer pauses to share his ideas about the role of the Test and Evaluation Directorate as he takes over the 06 position. —Photo by Jeff Johnson

a daughter, Heidi, who is attending Ricks College in Idaho.

Schiefer enjoys working with youth and says that his time as Bishop of the local Church of Jesus Christ of the Latter-Day Saints was most rewarding to him in his role

of counseling young people.

His other hobbies include gardening and photography, which he is combining with his interest in genealogy in preparing a family tree in pictures of his and his wife's ancestors to be mounted in their home.

## Lots of volcanic activity close by, but no need to worry

The dramatic display of natural fireworks by Mount St. Helens last year has caused residents and visitors to the area from China Lake to Mono Lake to look uneasily at the region's signs of previous volcanic activity — with good reason.

At least 30 volcanic eruptions have taken place in this region during the past 2,000 years, and the U.S. Geological Survey Volcanic Hazards Program includes the Mono Craters (near Mono Lake) as one of four volcanic areas showing potential for eruptions in the "near future." ("Near future" in geological terms can mean decades or even a century or two.)

The monitoring is done by implanting portable seismographs throughout the region because some types of earthquakes are precursors of volcanic activity. These quakes are all of about the same size and the same form. The harmonic tremors recorded at Mount St. Helens since the first signs of volcanic activity there have been used as an alerting system to indicate when residents should be evacuated for their own safety.

No eruption such as that of Mount St. Helens is anticipated for the local area. Dr. Pierre St. Amant, head of the Earth and Planetary Sciences Division of the NWC Research Department, says that if any volcanic activity takes place around the Mono Craters, there'd be more excitement and consternation than damage because pumice rather than magma or poisonous fumes is the most likely material to be extruded.

Volcanic activity closer to the Center than the Mono Craters, according to Dr. St. Amant, would probably be the result of seismic activity of the Garlock Fault.

The Garlock Fault, which is about one-tenth as active as the San Andreas, is

showing signs of stretching and slippage. The road near the gate to the Center at Christmas Canyon indicates slippage, and further stretching on the north side of the fault has caused breaking of asphalt on Highway 395 around Randsburg.

If a major quake occurs on this fault, northerly trending cracks in the earth to the north of the Garlock Fault would permit upward flow of magma, and the cracks would also allow ground water seepage down to where the rocks are hot enough to result in steam vents shooting up.

The most recent volcanic activity actually taking place on the Center was in the area of Volcano Peak, located east and slightly north of Little Lake. Lava flows there are recent enough so that bits of wood caught under the lava can still be found near the thin edges of the hardened lava.

Volcanic activity took place beneath Mono Lake as recently as 1890 when strong, very local earthquakes shook the ground, and the southern end of the lake bubbled and boiled. Steam came from the lake's surface, sulphurous vapors rose, according to local

reports, and hot waves rolled onto the beach.

Steam vents and hot springs near Mono Lake show that subterranean activity continues to the present time. The Mono Craters are very young, geologically; perhaps a half dozen eruptions took place here within the past thousand years, possibly as recently as within the past 250 years.

The Inyo Craters, which are actually explosion pits rather than young mountains like the Mono Craters, have been equally active within the past millennium.

The chain of craters leads into the Long Valley Caldera east of Mammoth Mountain (itself a volcanic peak that dates from eruptions taking place about 100,000 years ago). The Long Valley Caldera is the remainder of what was probably the "biggest bang ever" in the history of this continent. When the volcano that had existed there about 700,000 years ago exploded, an estimated 600 cubic kilometers of material shot skyward before the series of eruptions was over, leaving a valley about 10 miles by 19 miles where a mountain had once stood.

The extrusion from the Long Valley Caldera continued for nearly 600,000 years. No other eruptions even approaching this magnitude have occurred in the written history of man. None are anticipated.



**ACTIVE PAST** — Cooled lava, cinder cones and rhyolite plugs in the Airport Lake area, a few miles north of the Center's main site, indicate that nature displayed its ordnance and firepower in this region long before the Navy arrived.

### Photographic contest sponsored by State Fish, Game Comm.

Seashore, mountains, or desert — any outdoor vacation this summer can provide an excellent opportunity to come up with a photograph for the State Fish and Game Commission's Photography Award Program. Anyone can enter the contest.

Photographs to be considered will be of live fish and wildlife species in their native habitat and of the natural environment within the state.

The contest closes September 30, 1981. Certificates of excellence and honorable mention will be awarded for photographs in both the black and white and color categories. A picture of the year will be selected for display on a perpetual trophy at the State Capitol.

For further information call Carol at NWC ext. 3250.

## Weekend Roundup

With the weather as hot as it has been lately, everyone will probably spend the weekend propped up in a chaise lounge chair by the pool with an ice cold lemonade. If these aren't your wishes... read on.

The China Lake Soccer Club will be battling against George Air Force Base this weekend in action at Hesperia Junior High School in Victorville on Saturday at 4 p.m. The team is looking for local support to cheer them to victory.

Recreational Services has many discount tickets available to Department of Defense employees and military personnel for various attractions in California that make fun day trips for the whole family. For more information, contact the Recreation Coordination Office by calling NWC ext. 2010 or go to that office located in Bennington Plaza, next to the gymnasium.

Why not visit the San Diego Zoo or the San Diego Wild Animal Park this weekend and enjoy the beautiful weather in San Diego? Both parks offer tours as well as featured attractions, such as musical entertainment, within the park. San Diego Zoo is open from 9 a.m. to 5 p.m. every day, and the Wild Animal Park is open from 9 a.m. to 9 p.m. daily.

At the San Diego Zoo, a Skyfari Aerial Tram offers a scenic view of the park from an aerial vantage point. Along these lines, the Wild Animal Park also offers a 50-minute Wgasa Bush Line Monorail ride throughout the park.

Although the trout season at Crowley Lake has closed, anglers will be able to fish all summer long at the lake with the introduction of Sacramento perch. Crowley Lake, located over the Sherwin Summit just past Bishop, is a perfect fishing spot as well as a spot to cool off during these 105 degree days.

There are special sailing and water skiing areas at Crowley Lake, also. Boat rentals, both with and without motors, are available at the lake.

Like to  
fish?  
(see page 6)



'HERE'S HOW IT WORKS'—says Dale Baker in the Phoenix Missile Laboratory as he shows Frank Lyons hardware from the missile. Lyons, Robert Tice, and David Tanner, members of the Survey and Investigations Staff of the House Appropriations Committee, visited the Center recently for briefings on NWC projects and programs. —Photo by Jeff Johnson

### Enhanced control of drug abuse by Navy personnel announced

An enhanced Navy drug abuse control program was promulgated on July 9 by Chief of Naval Operations Adm. Thomas B. Hayward. The new program implements policies contained in SECNAVINST 5300.28. It adds emphasis to prevention, detection, deterrence and enforcement while still offering help to truly drug dependent members.

The objective of the Navy's drug abuse control program is prevention and control of drug abuse through positive, visible leadership and action throughout the chain of command.

The program emphasizes aggressive use of all available tools, including prevention education, awareness training, law enforcement services, command drug assessment team services, detection methods such as urinalysis and drug dogs and punishment when appropriate.

The following additional initiatives are included in the revised drug abuse control program:

- (a) Purchase of new, better portable urinalysis equipment.
- (b) More drug detector dogs.
- (c) Accelerated assignment of limited duty officers and warrant officers to Fleet commander and type commander staffs to coordinate drug law enforcement matters.
- (d) Development of a drug safety action program patterned after the alcohol safety action program for remedial education of identified drug abusers.
- (e) Replacement of the drug exemption program by a drug abuse self-referral rehabilitation procedure.
- (f) New regulations prohibiting drug abuse paraphernalia are given the force of general orders upon which disciplinary action may be based.
- (g) Urinalysis results may be used as evidence in disciplinary proceedings under certain conditions.

## Promotional opportunities

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

**Announcement No. 3633, Supervisory Aerospace Engineer or Mechanical Engineer, DP-AC, PAC No. 8126406E, Code 3626**—This position is that of Head, Control Design Branch, Systems Engineering Division, Engineering Department. The incumbent is responsible to the Head, Systems Engineering Division, for providing design, simulation, analysis, product improvement, production support and fleet support of missile control systems assigned for technical and administrative cognizance. The branch directly supports the SYSCOMS (Navy and Air Force) on their R&D and production programs. The branch head is responsible for continuous assessment of all facets of control systems, such as design requirements, functional interfaces, and producibility/production readiness. State-of-the-art control subsystems and components are evaluated, and relevant technology is the basis for branch research and advanced development projects. The incumbent is responsible for maintaining a balance of workload, personnel and facilities to ensure efficient utilization of all resources. Detailed technical planning is required for major program tasks including budget and time estimates as well as identification of design problems, technical risks and areas of greatest potential payoff. Job Relevant Criteria: Ability to supervise a large branch through subordinate section heads as well as direct supervision of employees; ability to discharge EEO Responsibilities; detailed knowledge of production techniques and equipment; familiarity with product assurance requirements including documentation, quality control, reliability and solderability in order to maintain close liaison with these groups; and the ability to communicate orally and in writing with all levels of government and contractor personnel.

**Announcement No. 3503, General Engineer/Aerospace Engineer/Electronic Engineer/Industrial Engineer or Mechanical Engineer, DP-3, PAC No. 8135520E, Code 3505**—This position is located in the HARM Technical Management Office, Electronic Warfare Department and serves as the HARM Production Support Engineer (Code 3505). Incumbent supports the management of the technical aspects for production of the AGM-88/A High Speed Anti-Radiation Missiles (HARM). Missions include scheduling, planning, and coordinating the technical support from NWC on NAVAIRSYSCOM contracts with production contractors. Position requires incumbent to coordinate the activities of various organizations, both on and off Center. Job Relevant Criteria: Knowledge of the DoD systems acquisition process; ability to effectively deal with people at NWC, other government agencies and industry; a broad technical background in production, testing and evaluation of guided missiles.

**Announcement No. 39-020, Interdisciplinary, Electronics Engineer/Mechanical Engineer/Aerospace Engineer/Physicist, DP-855/830/861/1310-3/4, PAC No. 813952E, Code 3908**—This position is that of Sparrow Development Manager in the Sparrow Program Office, Weapons Department. The incumbent is responsible for all project management aspects of the Sparrow AIM/RIM/7X Weapons System development. The 7X program will incorporate a new motor and tail control section with the AIM/RIM-7M seeker and warhead. Initial hardware development work is just beginning here at NWC. Task areas include propulsion, control, auto-pilot, simulation and aerodynamics. Job Relevant Criteria: Knowledge of tactical missile development and the DoD system acquisition process; experience in project management and missile system engineering; experience in formulation/operation of management control systems is desired; ability to supervise, to communicate effectively orally and in writing with the SYSCOMS, OPNAV, other government activities and contractors.

**Announcement No. 0852, Management Analyst, GS-345-11, PD No. 810807E, Code 081**. This position is located in the System Cost Analysis Area, Weapons Cost Analysis Division (WSCAD) Code 081, Office of Finance and Management of NWC. The primary purpose of this position is to provide expertise in the estimation of the life cycle costs and economic analysis of Navy Tactical Missile Weapon Systems. The incumbent designs and conducts cost and economic studies for all levels of technical management. Develops a consistent data base through a comprehensive analysis of cost and performance data for a wide variety of similar systems. The incumbent is responsible for presenting his/her findings, conclusions, and recommendations to technical management. The incumbent may work independently on a study or direct a team effort. Job Relevant Criteria: Knowledge of life cycle cost analysis; ability to communicate effectively; knowledge of budgetary planning and fiscal control. Promotional potential to DP-3.

**Announcement No. 0852, Mail/File Clerk, GS-305-2/3, PD No. 780607N, Code 0842**—This position is located in the

Cost Accounting Branch, Financial Operations Division, Office of Finance and Management. Incumbent receives and distributes incoming mail and computer batch inputs, files, answers the telephone, and aids accounting personnel within the branch. Job Relevant Criteria: ability to index and file; ability to work independently; and ability to work effectively with others.

**Announcement No. 33-014, Electronics Engineer, DP-855-2/3, PAC No. 8133529, Code 3333**—This position is located in the Advanced Technology Projects Branch, Fuze Systems Division, Fuze and Sensors Department. The incumbent will serve as an Electronics Engineer for assigned research and development programs in advanced state-of-the-art short range radar systems. The incumbent uses knowledge and experience in analog and digital electronic theory to design, develop and test circuits, subassemblies and systems for missile-borne radar applications. Job Relevant Criteria: Knowledge of electronic engineering fundamentals including solid-state devices and digital and analog circuit theory.

**Announcement No. 24-107, Shop Planner (Heavy Mobile Equipment), WG-5803-6, JD No. 778N, Code 26784**—This position is in the Public Works Department, Transportation Division. The incumbent plans for the Operations Branch, maintains positive control over shop workloads as well as current information on labor in shops, backlog of manhours, and manhours assigned to each work center. Authorizes initiation of work projects and balances workload and available manpower, checks progress being made on job orders and reschedules work where necessary, and coordinates and performs liaison work. Job Relevant Criteria: Ability to facilitate production; technical practices; ability to interpret instructions, specifications, etc.; knowledge of pertinent materials; knowledge of pertinent tools and equipment. Note: Supplemental qualifications statement is required and may be picked up at the reception desk or Room 210 of the Personnel building.

**Announcement No. 0913, Employee Development Specialist, GS-235-779/11/12, PD No. 7465012, Code 094**—This position is located in the Personnel Development Division of Personnel Department. Incumbent of this position will help develop, coordinate, and evaluate specific employee development programs, will participate in the planning of the total Center employee training and development matters. Incumbent will answer inquiries about available training, clarify eligibility requirements and application procedures, and explain Center policies and procedures in the employee development area. Job Relevant Criteria: Experience in developing and providing training opportunities; ability to identify training and development needs in light of an organization's objectives; experience in evaluating effectiveness of training programs.

**Announcement No. 33-015, Electronics Engineer, DP-855-2/3, PAC No. 8133528, Code 3333**—This position is located in the Long Range Missile Fuze Branch, Fuze Systems Division.



**DIVINE SERVICES**  
**PROTESTANT**  
 Sunday Worship Service 1000  
 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.  
**ECUMENICAL**  
 Wednesday Noon Bible Study 1130  
 Thursday Men's Prayer Breakfast 0630  
**ROMAN CATHOLIC**  
 MASS  
 Sunday 0830-1130  
 Nursery, Chapel Annex 1 0815-1245  
 Daily except Saturday, 1135 Blessed Sacrament Chapel

**CONFESSIONS** 1115 to 1130  
 0800 to 0825  
 1100 to 1125

**RELIGIOUS EDUCATION CLASSES**  
 Sunday Pre school thru 11th grade 1000  
 Above classes are held in the Chapel Annexes across from the former Center Restaurant  
 Sunday afternoon 12th grade 1630  
 As announced "Home" Discussion Groups and 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

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

**Project Management; Aug. 10-14, 8 a.m. to 4 p.m. daily. Instructor: Prof. Robert W. Sageman, former professor at the Naval Postgraduate School.**

## The Rocketeer

Official Weekly Publication  
Naval Weapons Center  
China Lake, California

Captain Jude Lahr  
NWC Commander

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Technical Director

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News Stories Tuesday, 4:30 p.m.  
 Photographs Tuesday, 11:30 a.m.

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## Police reports . . .

China Lake police were called upon to subdue a woman who committed assault and battery at her place of work on the Center at 8 o'clock Monday morning. She was transferred to Bakersfield for observation at a mental health facility.

### TRUCK RECOVERED

California Highway Patrolmen stopped a white Dodge 1980 pickup on Sunday and found that the person driving it had no right to be doing so because the vehicle had been stolen from a facility of the Sierra Sands School District on the Naval Weapons Center. Since the vehicle was taken between the end of the working day Friday and Sunday, it had not yet been missed by school officials.

### CLERK ASSAULTED

On Friday evening between 10 and 10:15, a food clerk from Burger King was assaulted while she was delivering food to the BEQ parking area. Two suspects approached, grabbed bags of food, and hit her while attempting to grab money that she was counting. She succeeded in shutting the door of the vehicle before they could take the money.

### WALLET STOLEN

At 9:45 Tuesday evening a wallet was stolen from a purse left in the kitchen in the East Wing of the All Faith Chapel while its owner was helping clean up after the Ice Cream Social. As well as all the identification in the wallet, it also contained \$57.

# employee in the spotlight

By Beth Payne

"Being of service to veterans," is what Lois Galvin likes most about being an active member of American Legion Post 684 in Ridgecrest.

At a recent annual convention of Legionnaires from the State of California, held in Pasadena on June 24 through 28, Lois was elected to the post of California Vice Commander for Women in the American Legion. In her new position, she will be "representing women legionnaires, reaching out to women veterans, representing the (state) department commander of the American Legion, and, if it's needed, acting as a liaison for the women's auxiliary," she explained.

Beginning this fall with a tour of the Veterans Administration hospital in Fresno, Lois will be "going through all of the VA hospitals getting input for long time residents of these hospitals and urging other people to visit patients in these hospitals." She added, "I represent the community and all Legionnaires whatever their point or problem might be."

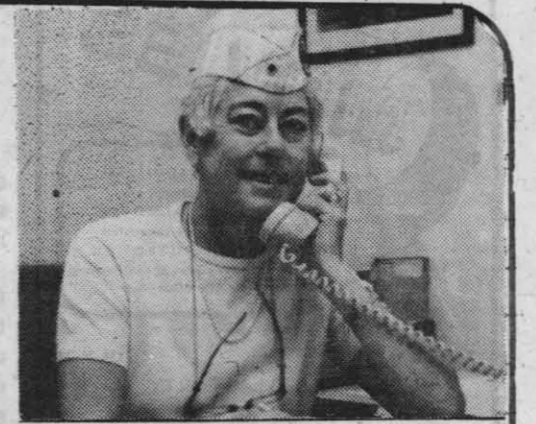
Lois is looking forward to getting input from the patients as to what improvements veterans would like to see in the Veterans Administration hospital system. "I will use the channels available to me to correct any problem that these patients face."

### Active Member for 11 Years

"I will be working with the VA to make sure there is enough VA care and benefits and to be assured the veterans have what they need," she said. Lois also sees veteran employment and fair housing for veterans as important issues facing veterans today.

"I represent the community and all Legionnaires whatever their point or problem might be."

Lois Galvin



Lois explained, "The main purpose of the American Legion is the rehabilitation of veterans. The American Legion is the greatest veterans organization there is. I've been an active member for 11 years and I enjoy working with the veterans and helping them solve their problems. I am glad to have the knowledge to go through channels to assist them in retaining their benefits."

"My husband is retired military and I feel the military has given great effort in the defense of this country. The citizens of this country whom the veterans have protected owe the veterans for that time," she said.

Lois added that the American Legion is active in youth programs. The American Legion award is presented annually to two ninth grade graduating seniors, one student from Murray Junior High School and one student from James Monroe Elementary School, who are chosen by their peers as outstanding citizens.

Lois works in the Military Administrative Branch where she "comes in contact with active duty military. They are very dedicated and loyal people and seem proud to be in the Navy," she said.

In her spare time, when she's not involved in the American Legion functions, Lois enjoys reading, and historical novels are her favorite reading pastime.

Lois and her husband, Robert, have lived in this area for 11 years and "enjoy the fresh, clean air and the friendliness of the people," she said.

## Too much sun not good for you says Kern County Health Officer

Every year, millions of Americans struggling to achieve a "healthy" tan unwittingly expose themselves to the potent, harmful effects of sunlight.

Dr. Leon M. Hebertson, Kern County Health Officer, recommends that residents become aware of the potential consequences that prolonged exposure to sunlight may have upon the skin. These consequences include sunburn, skin cancer, and photosensitive reactions.

Sunburn is the most most obvious and the most frequent consequence of too much sunlight. Burning is caused by invisible ultraviolet rays. These rays can cause sunburn even on overcast days. Ultraviolet rays can be reflected off water and sand, increasing the chances of being burned.

The peak danger hours for sunburn are normally between 10 a.m. and 3 p.m. Everyone runs the risk of sunburn, especially light-complexioned individuals. Sunburn can occur very quickly. Reactions of the skin: redness, inflammation, and blistering usually start several hours after

overexposure and peak within 12 to 24 hours.

It is generally recommended, for persons who are not highly susceptible to burning, that initial exposure to the sun begin at 15 minutes on each side (front and back). Gradually increasing this time will allow the body to tan slowly and lessen the chances of severe sunburn.

A good protective agent should be used on the skin. Agents that contain paminobenzoic acid and phenylsalicylate are very effective. However, no sunscreen is completely effective if an individual overexposed. Sunscreens should be reapplied after swimming. The eyes are susceptible to damage from overexposure to the sun and need to be protected as well.

Children are generally more susceptible to the sun's burning rays than adults. Extreme caution should be used when children are allowed outdoors. Sensitive portions of the body: legs, feet, shoulders, skin on the inside elbow joints, and the backs of knees, should not be allowed to burn. Coverings or sunscreens are highly recommended.

Skin cancers have been linked to repeated, long-term exposure to the sun. Persons in certain occupations: farmers, ranchers, sportsmen, and sailors are at greater risk and have a higher incidence of skin cancer than the general population. Every year, more than 100,000 Americans develop skin cancer and about 5,000 deaths from this cause are reported.

Photosensitive reactions, although rare, are a third problem linked to exposure to the sun's rays. Persons with certain disease conditions, or who are taking specific drugs, may be more sensitive to sunlight. Dr. Hebertson recommends that these persons follow their doctor's or pharmacist's advice closely.



**PRIZEWINNER — Young Shalel Grant proudly displays her dog Nelson who won first place for the best costume, first place for the best looking dog, and the best of show prize in the Kid's Dog Show sponsored recently by Recreational Services Department. — Photo by Jeff Johnson**

## Educational radio station on local airways thanks to work of IWV TV booster group

Listeners in the Indian Wells Valley who like noncommercial educational radio programs can now happily tune in to station KCVR-FM. This station, which is affiliated with San Bernardino Valley College, carries programming from National Public Radio.

Output for KCVR-FM in the Indian Wells Valley is on 88.7 MHz. Adjustments made to the FM translator recently by M. Stan Sanders, IWV TV Booster president, cleared up the interference that had been disturbing the signal.

San Bernardino-based radio station

KQLH, which has been receiveable intermittently in the local area, will be brought up to the quality of other FM boosters shortly. The new equipment and labor needed to relay the signal of this station into the Indian Wells Valley is the gift from Ed Tippler of Tortoise Communications in Ridgecrest.

KQLH will be received on 103.1 MHz (though it comes in on 93.5 MHz for Ridgecrest cable TV subscribers). The station features a variety of Christian programs.

## Promotional opportunities

(Continued from Page 2)

Division of the Fuze and Sensors Department. The incumbent participates in the design, development, test and evaluation of missile-borne microwave short range radar systems from breadboard through prototype models.

He/she uses knowledge and experience in the field of analog and digital electronics to perform "hands-on" design, development, and test of miniature radar systems used in the Navy's most modern missile. Job Relevant Criteria: Knowledge of electronics engineering fundamentals including solid-state devices and digital and analog circuit theory.

**Announcement No. B-463, Range Scheduling Clerk, GS-303-4/5, PD No. 8004615N, Code 0633** — Temporary position, not to exceed one year. This position is in the Scheduling Section of the Projects Office located in the Test & Evaluation Directorate. The Scheduling Office is responsible for scheduling tests on most of the ranges at NWC as well as airspace in the R2506 complex. Incumbent will provide backup support to the scheduler and the airspace coordinating clerk as well as the aircraft dispatcher. Job Relevant Criteria: Ability to follow directions both orally and in writing; ability to read and apply procedures; ability to communicate effectively with a wide variety of people and organizations; and ability to work under pressure.

**Announcement No. B-428, Electronics Technician, GS-856-9/10/11, PD No. 8162408N, Code 62354** — This position is located in the On-Axis Section, Range Development Branch, Range Instrumentation Support Division, Range Department. Incumbent will work on the On-Axis Development Program relating to the application of electronic design principles to meet specified functional performance requirements of electronic systems. Job Relevant Criteria: Knowledge in microprocessor system design, digital system design, radar, television, and encoder/resolver.

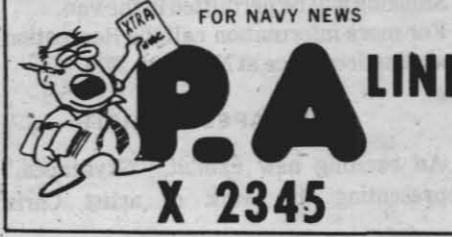
**Announcement No. B-444, Fabric Worker, WG-3105-5/7, JD No. 766N, Code 6421** — Part-time position, 32 hours per week or less. This position is located in the Test Operations Branch, Test Engineering Division, Parachute Systems Department. Duties and tasks include the manufacture, modification, or repair of various types of standard and experimental aerodynamic decelerators, containers, harnesses, cargo, missile, and satellite recovery systems, and accessory and peripheral equipment. Job Relevant Criteria: Read and interpret complex drawings, specifications, and rough engineering sketches; use arithmetic and shop mathematics to compute angles, radii, etc.; operate and perform minor maintenance on sewing

machines; and be familiar with basic materials, principles, and methods employed in the parachute manufacturing trade. Note: Supplemental statement is required and may be picked up at the reception desk in the Personnel Building.

**Announcement No. B-042, Electronics Technician, GS-856-10/11 or Engineering Technician, GS-802-10/11 (Also: Current GS-12 Technicians are invited to apply for this position); they will be considered for reassignment concurrently with other applicants), PD No. 753702, Code 0431** — This position is located in the Air Projects Office of the T&E Directorate. Incumbent serves as test engineer with responsibility for identifying and establishing test and evaluation programs for A-6/A-7 aircraft avionics systems. After planning the test program, the incumbent monitors and analyzes the aircraft system's development in order to assure that the T&E plan will result in a true measure of the effectiveness and suitability of the system. The position serves as test conductor on the more complex tests. Analysis, evaluation, coordination, liaison between departments and reporting of test results is also required. Job Relevant Criteria: Knowledge of A-6/A-7 avionics systems; knowledge of data analysis and assessment techniques; ability to effectively coordinate, plan and implement multiple sets of goals and objectives; ability to communicate well both orally and in writing.

**Announcement No. GY-846, Groundskeeper, NA-5003-4, \$4.40 per hour plus benefits, permanent, full-time, gymnasium** — This is not a Civil Service position. Duties: Operate equipment used in upkeep of athletic fields; applies fertilizers, insecticides and grass seeds; utilizes a general knowledge of irrigation system; thorough knowledge of athletic fields preparation; prepares fields and parks for daily use; makes minor repair to gymnasium equipment; assists with upkeep and general maintenance of lawn and park areas at pools; maintains shrubbery and grounds around tennis courts; resets electrical timers; makes recommendation to supervisor on equipment and supply requirements for maintenance of athletic facilities; other duties as assigned. Qualifications: Able to work without more than normal supervision; able to schedule time to ensure that areas and parks are thoroughly prepared. Must have experience in upkeep and maintenance of athletic facilities, grounds and shrubbery; knowledge of plumbing as needed to repair and maintain irrigation systems; able to use hand and garden tools. Must be in excellent physical condition and able to lift 100 pounds. Able to follow directions, and obtain a government driver's license.

Apply for non-civil service positions with Marsha French, Bldg. 34, Rm. 206.





## Commander's Cup action begins with NWC Gold big win

The new year of Commander's Cup competition began last week with the three competing teams — NWC Gold, NWC Blue, and VX-5 — turning into high rollers at Hall Memorial Bowling Lanes.

NWC Gold took a solid first place in the event with a total of 4,355 pins. VX-5 came through in second with 4,004 pins, and NWC Blue trailed with a 3,843 pin total.

High series honors for the day went to Boyd Dunham of VX-5, who rolled a sizzling 180, 221, 222 series for a total of 623. The only other person to break through the magic 600 was Dave Vander Houwen, who rolled 190, 206, and 206 for a 602 total.

The high individual score of the day was a 225 rolled by Tim Meadows of VX-5.

Since bowling is the first event of the annual Commander's Cup program, the standings show NWC Gold in front with five points, followed by VX-5 with three points, and NWC Blue with the one point garnered by the third place team.

The next sport for the annual tourney will be golf, scheduled for Thursday, Aug. 27, at 1 p.m. at the China Lake Golf course.

## Swimming classes begin new session; all levels offered

Youth swimming classes Session IV will be held at the Indoor Pool. Session IV will be Monday through Friday, July 27 through August 7.

Class times are as follows: intermediate, 8:00-8:30 a.m.; beginners/advanced beginners, 8:30-9:00 a.m.; beginners/advanced beginners 9:00-9:30 a.m.; basic beginners (non-floaters) 9:30-10:00 a.m.

Children must be at least 4 years old to enter the basic beginners class. To be eligible for the beginners class, children must be able to float unassisted on their stomachs and backs.

The last Friday session will be used for required testing. Recreational Services reserves the right to reassign participants to other class levels following testing conducted at the first class meeting, and to cancel classes if too few participants are registered.

Registration cost for each class is \$12.00, payable in advance to the Recreation Coordination Office.

## NWC fields team of 4 dart-throwers at regional tournament

A team of dart-throwers represented the Naval Weapons Center last weekend in competition in San Diego in the Southern Pacific Dart Tournament.

Among the dart tournament contenders were A01 Larry Barnard, AMS1 Michael Fedak, AC1 Charles Waugh and A01 Paul Ekstrom, who organized the team.

Team members competed in singles action, while doubles teams were composed of Ekstrom and Waugh competing as a team and Fedak and Barnard who also entered doubles competition. In triples action, NWC entered Fedak, Ekstrom and Waugh.

Prizes were awarded to first and second place winners in this tournament. The NWC team was one game shy of taking the second place title in doubles play.

### Kids' fishing trip slated

A kids' fishing trip is planned for August 6 from 7:30-4:30 to Whitney Portals. The cost is \$5.00 for military and \$6.00 for civilians.



**BREATHLESS MOMENT** — Home plate umpire Mark Hucek and Bishop catcher Todd Oney concentrate on the ball as China Lake's Scott Robey swings into action in the Little League playoffs. —Photo by Jeff Johnson

## Nearby fishing reported good; makes for fun-filled weekend

Fishermen (and women) who'd like to get out of the heat here and head northwards have plenty to inspire them to travel this weekend.

Fishing in the Mammoth Lakes area has been good to excellent in several of the back country lakes. The fisherman's favorite method of catching the elusive water creatures will determine where to go.

Purple Lake, for instance, has been good for those who like a fly and a bubble, while Skelton Lake fish prefer Pautzke eggs, small Mepes and Phoebe lures. Barney is best for those using Zekes floating cheese

## Softball standings in this week's play show little change

Another week of play in the slow pitch leagues has resulted in very few changes in standings.

In the men's American Division all the teams hung onto the same ranking. The Knights have edged past NWC Varsity for the only change in the men's National Division. In women's division play, High Desert Imports has inched up to a tie for third place with Kelly's Earthworks; Kelly's has played one more game, but that one resulted in a tie. The Military Division showed no change.

The heat of competition — or something — proved too much for two teams in the women's division; both the Foxtails and the Gatlin Girls are forfeiting the rest of their scheduled games.

Ridgecrest Recreation Slow Pitch Softball League				
Standings as of July 16:				
Team	W	L	T	
<b>Men's American Div.</b>				
Stare Montage	12	3	0	
ARCS	10	4	1	
Pizza Villa	10	6	0	
NWC O's	8	0		
ERA Raiders	10	1		
CSC	11	0		
Vaughn's	1	13	0	
<b>Men's National Div.</b>				
Villains	12	2	1	
Renegades	9	3	2	
Knights	8	5	1	
NWC Varsity	9	6	0	
High Desert Saloon	4	11	0	
Clancey's Home Center	4	11	0	
<b>Women's Division</b>				
CSC	15	3	0	
High Desert Home Center	14	3	0	
High Desert Imports	13	4	0	
Kelly's Earthworks	13	4	1	
HW Dairy	9	8	0	
Rosas Roofing	7	10	0	
Hot Trotters	6	11	0	
Home Town Realty	5	11	1	
Foxtails	2	16	0	
NWC Gatlin Girls	1	15	0	
<b>Military Division</b>				
Tigers	8	2	0	
Rippers	5	4	1	
Oly's	1	8	1	

## All Star teams battle as regional tourney held in local area

Baseball may be in a hiatus throughout the rest of the country, but it's alive and well in the Indian Wells Valley as Little League All Star teams battle for the regional championships.

Last Friday night China Lake beat Owens Valley 5-0 as pitcher Tod Rowland pitched a shutout. In Saturday night's game, Bishop scored a 4-2 victory over Ridgecrest, dropping Ridgecrest into the lower bracket in this tourney.

The two local teams battled Monday evening, with China Lake coming out on the lower end of the 4-0 score. The first four innings were close and scoreless, but when China Lake made some errors, the Ridgecrest Little Leaguers played heads up ball and capitalized on the errors to make the winning tallies.

The Ridgecrest All Star team was so heartened by this victory that on Tuesday evening they reversed the score of their previous game against the Bishop team, trimming the northerners 4-2 to put both teams into Wednesday evening's finals, which Ridgecrest lost.

## NWC Soccer Club to battle against Air Force in Hesperia

Soccer fans who want to cheer for the Navy will be able to come and support their favorite service tomorrow if they are willing to travel to Hesperia, when it will be China Lake versus the Air Force at the Hesperia Junior High School fields.

The local soccer club will take on George Air Force Base's team, and Edwards Air Force Base will tangle with its neighbor to the south, Norton Air Force Base.

The Edwards team has just been reactivated after several of the team members played in the Lancaster Sunday League as the Lancaster Football Club. Also new to the group is the Norton team; China Lake has not yet played Norton.

On August 8 the China Lake team will turn to a different direction — northwards to Bishop — for a game scheduled at Millpond Park. Final arrangements have yet to be completed for this match.

The next home match scheduled pits the local team against George Air Force Base on Sunday, August 23, although several of the open weekends may be filled before that date.

## Hunter safety class required before any license can be issued

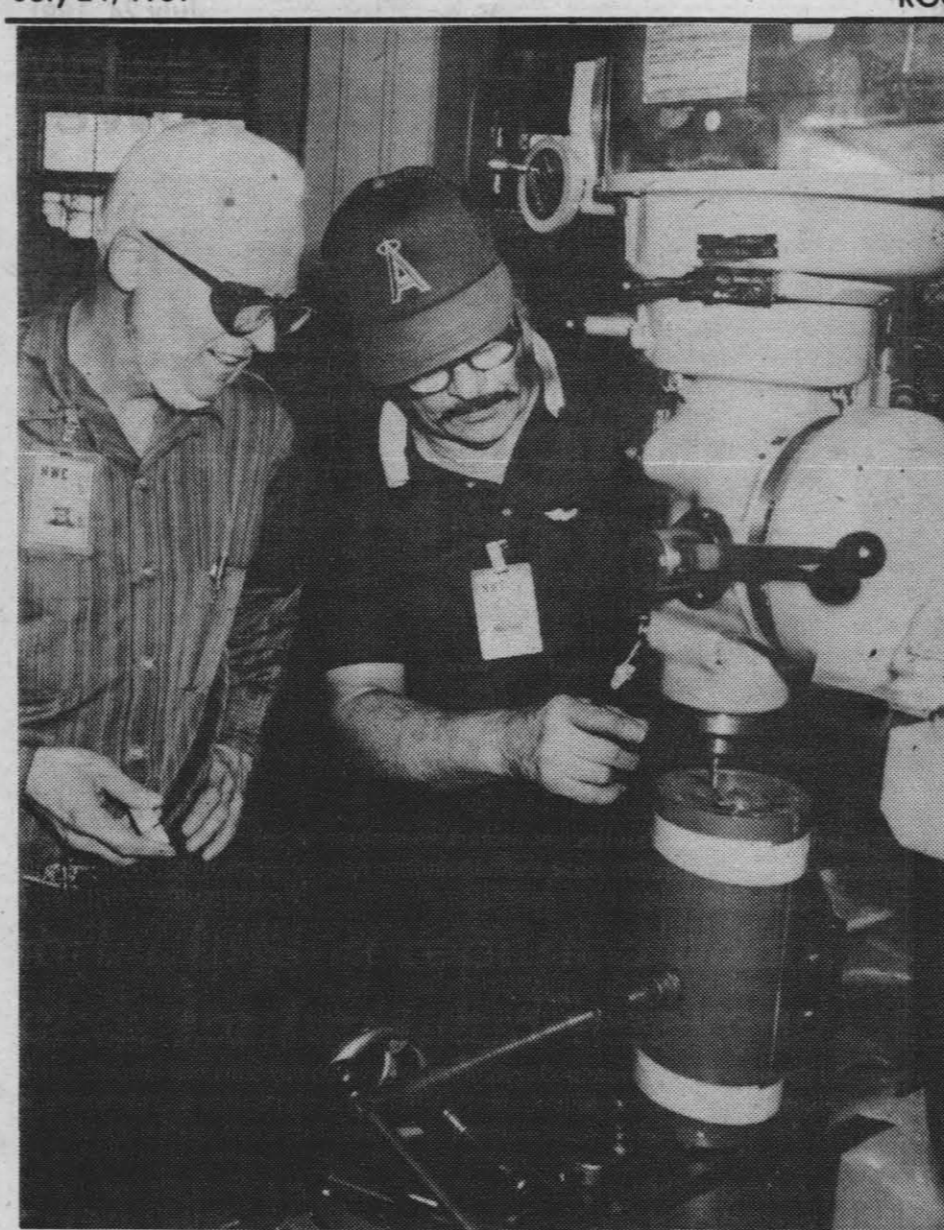
In California, all first time purchasers of a hunting license must first successfully complete a state-required Hunter Safety class before they can buy a hunting license. This is required regardless of age or if they have hunted in, or possess a hunting license of another state.

The Sierra Desert Gun Club will teach a two-day, 11-hour hunter safety class on Saturday and Sunday, Aug. 1 and 2. The school will be held at the club's rifle and pistol range and clubhouse facilities on the Naval Weapons Center.

An advanced registration and sign-up is required as the class will be limited to 50 students. A sign-up table will set up in the lobby of the Ridgecrest Police station from 7 to 9 p.m. on Tuesday. Also the sign-up table will be open tomorrow from 9 to 11 a.m. A \$10 registration fee will be collected at the time of sign-up.

## Innertube water polo scheduled in August

Six sessions of innertube water polo are planned for young people beginning August 3 from 10:00-11:00 a.m. at the indoor pool. The sessions will be on Monday and Wednesday until August 19 and will cost 50 cents for each time. Participants must be able to swim and must be under 12 years old.



**LOOK OUT FOR FINGERS!** — Frank Varga (right) instructs Elder Bartel about the use of the Bridgeport Milling Machine in the open shop area of Michelson Laboratory. —Photo by Jeff Johnson

## 'I'd rather do it myself' O.K. philosophy for NWC personnel

Inventiveness and creativity are alive and well in the shops at NWC. The employee whose work requires the development or adaptation of parts through the use of machine tools can do the work himself in an open shop.

Equipment management concepts being several years ago have been responsible for the "open shops" available for intermittent use on Center. While machine tools cannot be loaned, the open shop gives an employee an opportunity to use such tools at two locations — Michelson Laboratory and Salt Wells.

The concept of the centralized open shop makes use of areas originally built for

machine shops and suitable for that purpose. In addition, one advantage is the assurance that the tooling is adequate with a full range of accessories, spare parts, drill bits, and upgraded equipment — whatever is needed to perform the job for the Navy.

Qualified personnel are on hand to be helpful in the open shop areas. A machinist serves as consultant and can instruct the users in the various features of each piece of equipment.

The log book in the open shop areas indicates that the open shops are being used extensively by Center employees for their work-related projects.

## CLMRG, SAR team combine to rescue injured climber Saturday

China Lake Mountain Rescue Group (CLMRG) and the Naval Weapons Search and Rescue helicopter were called into action when two mountain climbers attempted to climb the 1,700 foot vertical east face of Mt. Whitney last Saturday morning at approximately 8:15. A climbing accident occurred when John Wilkins, from Lyle, Washington and Dan Krabacher, from Hood River, Oregon, were struck by a large granite boulder about the size of a bale of hay. Wilkins was more seriously hurt than Krabacher. He sustained a crushed pelvis, broken thigh and a punctured abdomen.

Apparently, the two men were climbing when Krabacher grasped on to the rock which dislodged and both he and the rock fell down to the ledge — the force of the rock landed on Wilkins, who sustained serious injuries.

Lieutenant Commander Chip Lancaster piloted the helicopter from NWC, along with the crew chief AD1 Gordon Draper, second crewman ADAN Larry Clark and SAR corpsman HM3 Stephanie Moore. The helicopter left China Lake after an 11:30 a.m. call, along with CLMRG members Dennis Burge, Mike Mason, Vern Anderson, Don Harris and team leader Daryl Hinman.

The helicopter stopped first at Lone Pine Airport to transfer Inyo County Sheriff Mountain Rescue personnel into the Whitney region to assess the situation. The

seriously injured victim, Wilkins, Krabacher and four other climbers who had joined the stranded pair from a nearby route were spotted on a small ledge by the helicopter. Wilkins was placed in an evacuation litter which had been left at the base of the face of the mountain by CLMRG members several years earlier for such an emergency.

The helicopter personnel determined that it was possible to remove the injured climber directly from the ledge in the evacuation litter with the helicopter.

After dropping the CLMRG team at Iceberg Lake, below the face, they returned to Lone Pine to transport in more rescue personnel and to "burn off" excess fuel to lighten the weight of the helicopter so it could get to the 13,000 foot elevation.

AD1 Draper and ADAN Clark swung the 100 foot line to the ledge and the line was hooked to the litter which pendulumed out from the face of the helicopter as it pulled up and away. The victim was flown back to Iceberg Lake where Hospital Corpsman Moore checked his vital signs. He was in stable condition. Wilkins was transferred to the Ridgecrest Community Hospital at 3:35 p.m. where his injuries were determined.

CLMRG members evacuated Krabacher, who had minor injuries, to Iceberg Lake where he was transferred by helicopter to Lone Pine.

## New council looks for fraud, waste, abuse and inefficiency

In a decisive move to combat fraud, waste and abuse within the Navy, Secretary of the Navy John Lehman has established a new council on review and oversight, and assigned his top military and civilian assistants as members.

The Under Secretary of the Navy will chair the new council. Its two leading members are the Vice Chief of Naval Operations and the Assistant Commandant of the Marine Corps.

While urging the council, to identify immediately those areas needing high level management attention, Secretary Lehman reassured in the strongest terms his directive to manage the resources entrusted to the Navy efficiently, effectively and economically.

The council has already instituted new procedures to follow-up audits conducted on Navy and Marine Corps activities. These

procedures mandate that findings and recommendations appearing in audit reports must be acted upon by management, and automatically forces contentious issues to the Under Secretary of the Navy for resolution. The council has also indicated that certain audit findings will impact budget allocations throughout the Navy.

In addition to reviewing audit results, the council is focusing on opportunities for enhanced efficiencies. Two prime candidate programs identified that show significant potential for savings are accelerated aircraft procurements and a revised acquisition strategy that includes multi-year procurement schedules. Discussions with Department of Defense officials and Congressional leaders in these areas have already begun.

## AMH3 Hinds selected Sailor of the Quarter by VX-5

Aviation Structural Mechanic (Hydraulics) Third Class Tracy M. Hinds has been selected as Sailor of the Quarter by Air Test and Evaluation Squadron Five (VX-5) for the 3-month period of April through June.

AMH3 Hines is assigned to the VX-5 Airframes Work Center, and this is her first duty assignment after completing bootcamp about two years ago. From here she has had a series of temporary assignments. In that short time she attended Naval Aviation Technical Training Command School in Memphis, Tenn.; served on a detachment aboard the USS Lexington in Pensacola, Fla.; and attended A-6 school at Whidbey Island Air Station in Washington.

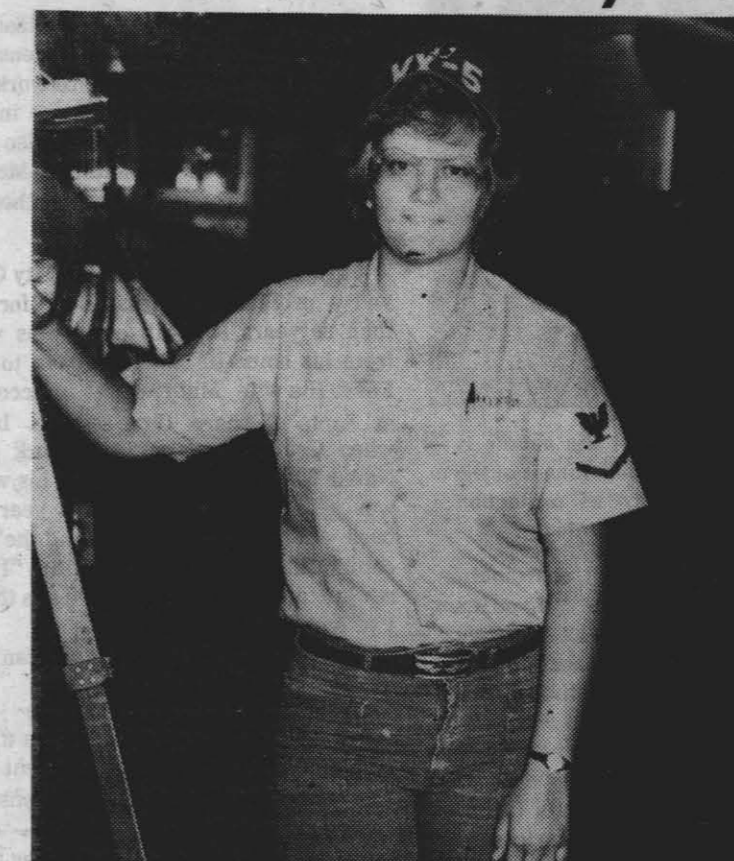
The letter of commendation to AMH3 Hinds from Capt. P. E. Hollandsworth, Commanding Officer of VX-5, praises her for her exceptional dedication, hard work and positive attitude towards the Navy and all assigned tasks which have continued since her selection as Sailor of the Month for April.

The letter continues, "While working as a member of the Maintenance Department's early crew, you were instrumental in ensuring that all airframe related ground support equipment was in acceptable material condition and fully prepared for use on squadron aircraft. You have effectively applied your talents, often working extended hours and thereby contributing significantly to the timely accomplishment of your workcenter's mission and a corresponding reduction in aircraft maintenance time."

The letter concludes, "Your dedication and exemplary behavior distinguished you as a true professional. You have earned the respect of all your co-workers and have proven yourself as an invaluable asset to your squadron. Your record of personal behavior and accomplishment is in keeping with the highest traditions of the United States Navy."

Because of her selection as Sailor of the Quarter, AMH3 Hines will have the use of a rental car from Hucek's Travel Service on the weekend of her choice, plus a \$25 gasoline allowance from the Ridgecrest Chamber of Commerce.

In addition, she will receive a gift certificate worth at least \$25 from the Chamber of Commerce, and will join members of the local businessmen's group at a lunch meeting. A dinner for two at Clancey's Claim Co. in Ridgecrest will round out her awards.



# Specialized equipment made in-house by glassblower

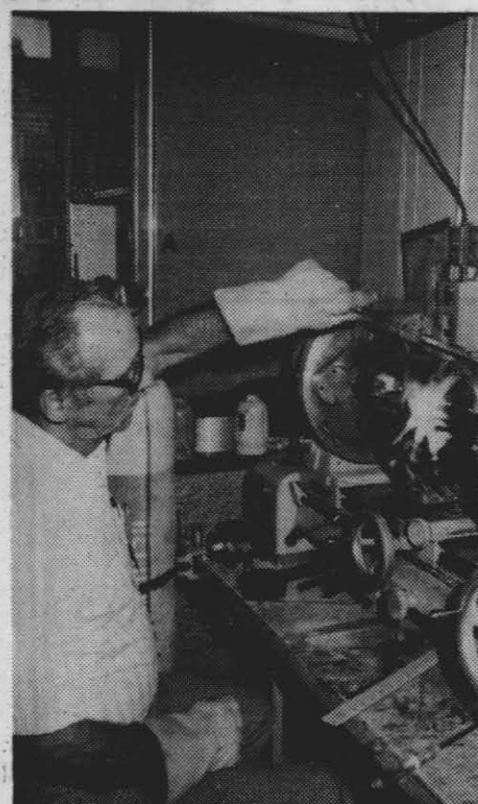
If a specialized piece of glass equipment is needed in a short amount of time, the man to see is Thomas Griffith Jr. He is the glassblower for the Chemistry Division of the Research Department.

Griffith began his career in a "sort of apprenticeship program" at the beginning of the Korean War era. During the development of the hydrogen bomb there was a need for glassblowers. Due to the nature of the laboratory materials, a number of experiments were done using glass systems. While in South Carolina, Griffith was involved in pilot work for the hydrogen bomb, including the building and remodeling of laboratory apparatus. Within a few years, he became a senior glassblower.

"There is often a need in laboratory research for specialized equipment," he says. A part of his job involves modifying existing standard, off-the-shelf equipment for use in experimental research. Stopped bottles for the collection of gas chromatography samples, specialized glass cylinders for the testing of explosives, and modified flasks and chemical reagent bottles are some of the diverse products of his talent. Griffith also makes equipment not readily available from the stockroom, thereby eliminating the delay involved in ordering glassware supplies.

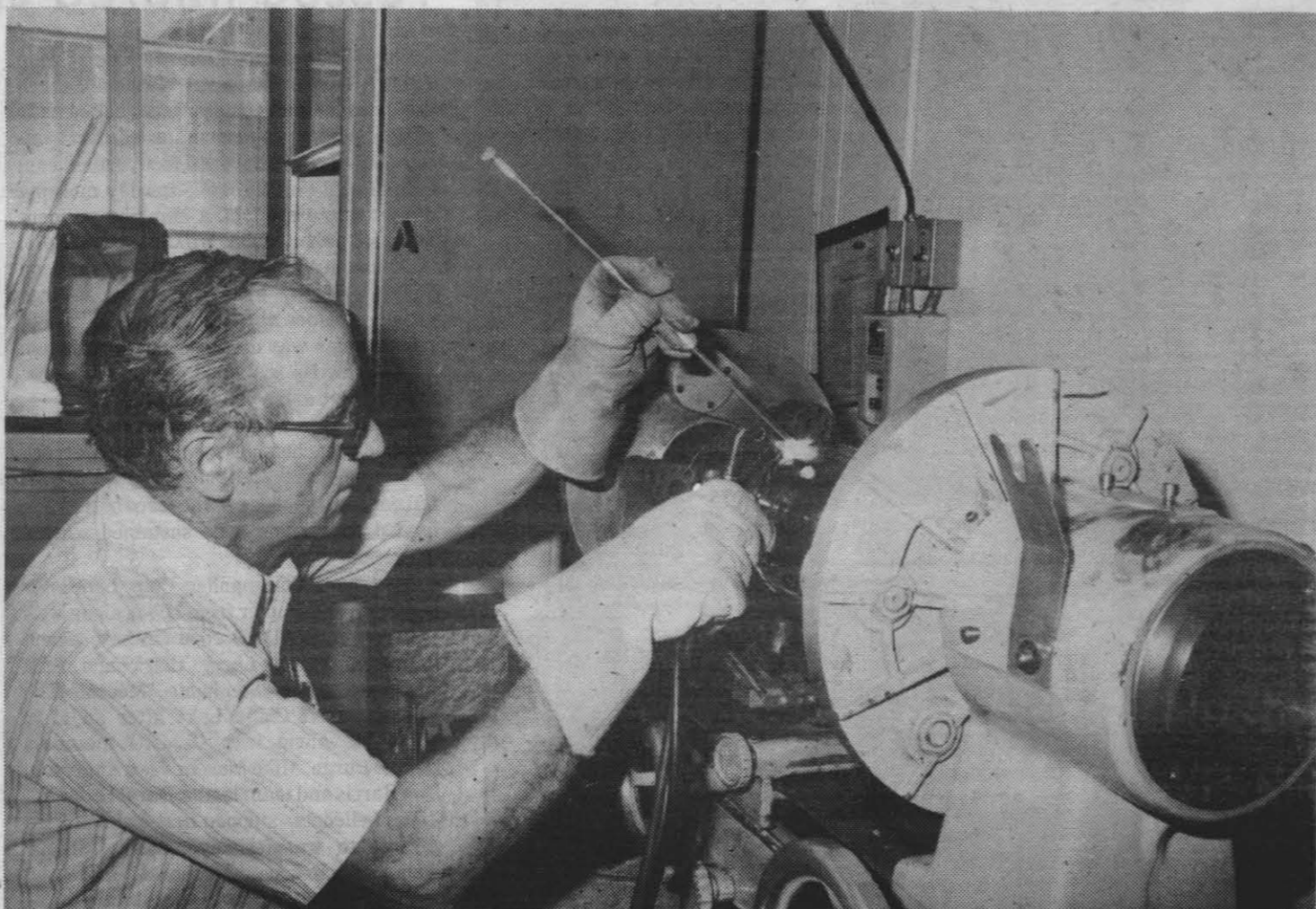
### SAFETY GLASSES NEEDED

Safety glasses are a necessary part of a glassblower's equipment. "The glasses filter out the harsh rays of sodium light, which can be hard on the eyes," Griffith explains. Other equipment includes a lathe, which can be used to produce certain items in quantity and is also necessary for handling long or large and heavy items that are difficult to control by hand. A polaroscope is used to view stress lines in glass, which can occur around joints and seals. A furnace is necessary for the annealing of glass, providing assurance that seals won't crack from the stress of heating. "The furnace heats the glass to a uniform temperature and then it is allowed to slowly cool," says Griffith in explanation of the annealing process.



**FINISHING TOUCH** — The paddle is applied to insure the smoothness of the seal. Gloves are worn as protection from the intensity of the flame.

Glassblowing involves skill, coordination, practice, and a lot of patience. "If you know someone that you think has a lot of patience, this job probably takes twice that amount," says Griffith. Cuts and burns (the flame can get to 1000 degrees Centigrade) are some of the risks involved. Griffith explained that most cuts and burns are usually caused by carelessness. Good safety habits (such as cutting down a glass item with the broken or not end facing away from you) will help prevent most cuts and burns.



**STEADY AS SHE GOES** — A glass rod is melted to fill the void together. The lathe keeps the beakers spinning so that the seal created by the pouring lips of the beakers as they are sealed will be of uniform thickness. —Photo by Jeff Johnson

Exposure to asbestos is another hazard. Griffith undergoes yearly screening tests to check for lung damage. There is also a risk of mercury poisoning from toxic vapor. Questionable items are put through the furnace to burn off the mercury before the items are handled.

An awareness of laboratory chemicals and solvents is essential. "As a safety precaution, glass needs to be clean and dry before it is handled. Glass that has been washed or rinsed in alcohol can flash and blow up when heat is applied."

Griffith greatly enjoys the flexibility involved in his work and the freedom of having his "own shop." Being a craftsman is important to him — more so than the status of his job. Griffith enjoys working with the people at the Naval Weapons Center and has occasionally trained Comprehensive Employment and Training Act (CETA) or work-study students in the fine art of glassblowing. As a glassblower, Griffith is in the unique position of being able to get involved with the prototypes of almost everyone's projects.

### ENJOYS BUILDING

When he isn't involved with the fashioning of glassware, Griffith takes pleasure in building. He has done extensive work in the remodeling of an old farmhouse in Santa Barbara. He likes to golf and also enjoys winter trips to the mountains. Moderate investments in real estate are another of his interests.

A graduate of Santa Barbara City College and a professional glassblower for more than 30 years, Griffith commutes weekly from his home in Santa Barbara to China Lake. His wife, Mary, works in accounting at Santa Barbara City College. In 1972 when Griffith first came to work at the Naval Weapons Center, he told his wife he was just going to "try it for a year." It's been about 10 years now and he's still commuting. Why? Says Griffith, "I enjoy my job, and the scientists here are the best I've ever worked with."

### Telmed tape of week

A birds and bees question from a young child can sometimes leave a parent dumb-founded. Help in answering questions like "Where did I come from Mama?" can be found by calling 446-3541, and asking to hear tape No. 402.

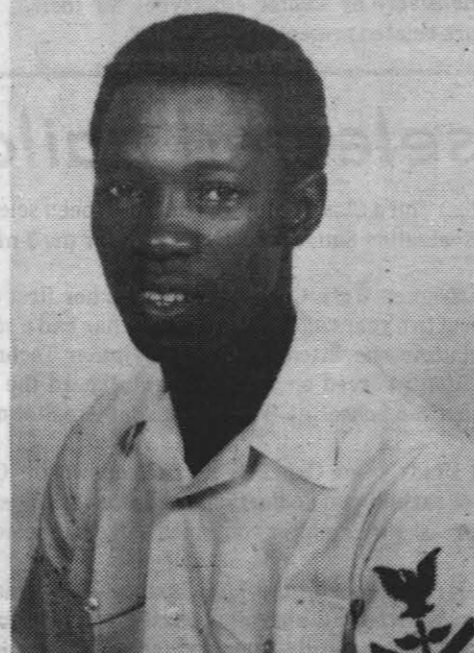
## Bluejacket of Month for June Honor to AD3 Collin Waterton

Aviation Machinists Mate 3rd Class Collin Waterton has received special recognition this month as the Naval Weapons Center's Bluejacket of the Month for June.

AD3 Waterton is assigned to duty in the Line Division at Armitage Airfield, where he is part of the Aircraft Department's Aircraft Support Division.

AD3 Waterton was nominated as Bluejacket of the Month by Lt. M. D. Backes, his Division officer; he was cited for being "the Hot Line's stop A-7 plane captain."

"spirited hustle on the line and in-depth knowledge of the numerous complex



AD3 Collin Waterton

systems on the A-7 aircraft make him a valuable asset to the division. He is a safe and dependable lineman, which makes him an excellent instructor, working well with newly assigned A-7 trainees."

Additionally, Lt. Backes commended AD3 Waterton for "his friendly disposition (that) allows him to work well with others" and for his contribution to the high morale of the Line Division. Lt. Backes noted that Waterton devotes much of his off-duty time to the Sidewinder Drill Team. He is one of the key performers of the 12-member team.

—By Elizabeth Shanteler

Originally from Guyana, AD3 Waterton grew up in Brooklyn, New York. He joined the Navy to get into the aviation field. After completing recruit training at boot camp in the Great Lakes, he attended ADA school in Memphis, Tennessee.

Airman Waterton reported to the Naval Weapons Center in September 1979, where he was assigned to duty on the "Cold Line" (working with aircraft that have no weapons). In October 1980, he reported to the Hot Line as an A-7 plane captain trainee. His present duties are those of an A-7 plane captain.

When he is not inspecting aircraft or supervising new trainees, AD3 Waterton enjoys playing soccer and touch football. He laments that he does not get to play soccer as often as he would like to here at the Naval Weapons Center.

AD3 Waterton resides in China Lake with his wife, Mary, and their newborn son, Collin Jr.

## Armchair travelers can enjoy going to all states by books

The Center Library invites its readers on an arm-chair journey through the history of their favorite state.

"States and the Nation" is a 51 volume set recently added to the library's collection. This series offers a volume on every state, plus the District of Columbia.

Each state's history is reviewed in light of what has mattered to its own people and to the rest of the nation, and what it has come to now.

The "photographer's essay," which is included in each volume, gives the photographer's own personal perception of the state's contemporary flavor.

A fascinating example from this series is David Lavender's "California." In this volume the reader will find a thoughtful, rich, and highly readable story of California's Hispanic legacy, the gold-rush days, its admittance to the Union, and its attraction to people looking for a place to be different.

## Noted Polish scientist lectures at Center, visits laboratories

Professor Tadeusz Urbanski, one of the world's foremost authorities on nitro compounds and explosives, was a recent visitor to the Naval Weapons Center. His visit here was sponsored by Dr. Arnold Nielsen, a senior research scientist in the Chemistry Division of the NWC Research Department.

While at China Lake, the 79-year-old Polish professor presented an unclassified technical lecture on the subject of "Hydroxamic Acid Chemistry," and had the opportunity to examine facilities and equipment used by chemists at NWC.

Listed in both "Who's Who in the World" and "Who's Who in Science in Europe," Prof. Urbanski came here from the Institute of Organic Chemistry and Technology in Warsaw, Poland.

He is the author of numerous articles and books on nitro compounds and explosives, including a three-volume treatise "Chemistry and Technology of Explosives," which has been translated into several languages, and another book entitled "Theory of Nitration."

A native of Poland, his study of chemistry goes back to the years following World War I. He graduated in 1924 following studies in the Chemistry Department at Warsaw Polytechnic. He later received his doctorate in technical sciences there in 1932.

From 1928 up until the outbreak of World War II, Prof. Urbanski headed the research laboratory at the Technical Institute of Munitions in Warsaw. Wanted by the German Gestapo, he managed to stay a step ahead of the enemy and eventually reached Bordeaux, France, and a short time later boarded a ship leaving for Great Britain.

He stayed in Britain for nearly six years — working at the Research Department of the Ministry of Supply as head of the Macromolecular Laboratory. He also lectured on the technology of organic chemistry to Polish students at London University.

During that period, the major part of his research work was devoted to problems closely connected with the war. He also had the opportunity to turn once more to a subject that he had practically abandoned before the war, namely the chemistry of medical substances.

As a consequence, Prof. Urbanski is also noted today for his significant contributions in the field of medicinal chemistry, particularly on substances used in fighting malaria and tuberculosis.

At the end of World War II, Prof. Urbanski declined offers to stay and continue his work in Great Britain, electing instead to return to Poland where he took over the Department of Organic Technology and also became dean of the chemistry faculty at Warsaw Polytechnic.

This was a particularly difficult period because buildings destroyed by the war had to be reconstructed, and Prof. Urbanski had to deal with virtually every problem himself — from getting materials to keeping an eye on building operations and, when this was done, obtaining the necessary equipment. Despite this, he continued his scientific research work as well, extending its scope to finding medical and plant-protection substances.

In the ensuing years, Prof. Urbanski's wide range of interests and the scope of his work resulted in a number of contracts with scientists and participation, at home and abroad, in meetings of international scientific groups. His command of several foreign languages has been invaluable to him as a widely traveled lecturer and consultant.

He was a visiting professor in the U.S. at the University of Maryland in 1965, and has visited and lectured at the Naval Surface Weapons Center in White Oak, Md., according to Dr. Nielsen, who met Prof. Urbanski at one of the many scientific meetings he attended.



**DISTINGUISHED VISITOR** — Prof. Tadeusz Urbanski (at right), a world-renowned expert on nitro compounds and explosives who lives in Warsaw, Poland, visited NWC recently to present an unclassified lecture. He is shown with Dr. Arnold Nielsen, his sponsor during his stay at China Lake, who is looking over one of the many books written by Prof. Urbanski. —Photo by Don Cornelius

## Electa Huston enjoys working with FWP Program Committee

(The first in a series of articles about members of the Federal Women's Program Committee at NWC)

some wonderfully creative and talented people!"

"I'm not exactly the Pearl Mesta of the Naval Weapons Center — but I'm learning." This is from Electa Greenleaf-Huston, a member of the NWC Federal Women's Program Committee and coordinator for the activities of Federal Women's Day, July 15.

Being 'chair' for this event has been an enlightening experience: "It is still difficult to imagine all the things that must be done — planned, scheduled, arranged, and coordinated — in order to put together such an event."

Electa is accustomed to the rigors and pressures of "getting it together." She is a Financial Management Analyst in the Budget Division of the Office of Finance and Management. As such, she is the liaison between the Comptroller and several of the Center's Departments, providing advice, and consultations as to the appropriateness of any action relating to any of the many phases of financial management. "In some respects," she says, "my job is like caring for my two children — no two days are alike."

Despite the unpredictable nature of her position, Electa loves it, mentioning that "It's always a challenge." She goes on to say: "I'm really fortunate to work in the Comptroller's organization. I work with



Electa Huston

## NBC, Heart Assn. to join in 5 programs giving CPR training

National Broadcasting Corporation affiliates, in conjunction with the American Heart Association, are going to telecast five 30 minute programs on cardio-pulmonary resuscitation training. Interested persons should watch the programs and also purchase a booklet from the Red Cross as a supplement.

The CPR student can go to an evaluation station after watching the programs and reading the printed material. At the evaluation station the student may practice CPR for an evaluator. If the performance is satisfactory, a card will be issued. If not, the person will be advised to attend CPR classes.

The local coordinator for CPR evaluation based upon the NBC programs is Scott Allen of the Tri-County Ambulance Service, Inc.

As a possible life-saving technique or for informational purposes only, the television programs may be valuable, whether a card is desired or not.

The CPR training will appear in television listings and promotional materials.

the unenlightened may ask "where is Glenville?" Just as many of us have heard Philistines ask "where is China Lake?")

She later took a Master's Degree in Public Administration from the University of So. California with several business and accounting courses wedged in as time permitted. As implied by the first college she attended, Electa is a native of wild and wonderful West Virginia.

Electa hastens to point out that she didn't do quite everything connected with Federal Women's Day herself. "The Federal Women's Program Committee is a team," she points out. "They work beautifully together, and we had a great time getting this year's event together."

Then looking a trifle weary, she goes on, "It has been a great experience. But I won't volunteer next year to chair Federal Women's Day... I'll work on the team."

—By Gene Schneider

## Energy tip . . .

Buy equipment on the basis of initial cost plus operating costs rather than on the basis of purchase price alone. Often products that are energy efficient cost more to buy. But over the lifetime of the equipment, you will more than make up the difference in lower operating costs.

## Keeping eye on appliance use can save both energy, money

Nearly 39 percent of all the energy consumed in the United States goes into keeping homes and vehicles functioning.

Vehicles, the single most energy-consuming product in the life of the average person, use about 13 percent of all energy. The remaining 26 percent of energy is used in homes. Any reduction in use will save not only energy, but also will help the family's budget.

Ways of saving energy include: reducing hours of usage of appliances, using the most energy-efficient appliances, using alternate power sources (for instance, a solar-powered clothes drier — the clothes line — rather than a dryer), and using the smallest appliance to accomplish the task (such as a toaster oven to heat small items rather than the oven in the kitchen range).

According to the Edison Electric Institute, the largest energy consumers in each of the household categories are

Electrical Energy User	Energy Consumption per year (KWH)	Yearly Cost*
<b>Water Heating</b>		
Quick-recovery heater	4,811	\$283.37
Water pump	231	13.61
<b>Space Heating/Cooling</b>		
36,000 BTU central air conditioner	7,000	412.30
12,000 BTU room air conditioner	2,100	123.69
Furnace	735	43.29
<b>Kitchen Appliances</b>		
20 cu. ft. no-frost refrigerator/freezer	2,508	147.72
15 cu. ft. manual defrost freezer	1,200	70.68
Range, self-cleaning oven	1,200	70.68
Dishwasher	363	21.38
Microwave oven	190	11.19
Skillet	186	10.96
Coffeemaker	140	8.25
Toaster oven	100	5.89
<b>Laundry Appliances</b>		
Clothes dryer	993	58.49
Automatic washer	103	6.07
Iron	60	3.53
<b>Entertainment</b>		
Color TV (solid state)	440	25.92

\*Based on NWC's average electrical rate of \$0.0589 for the first 8 months of FY 81.