

**MOVIES**

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

Regular starting time - 7:00 p.m.

**FRIDAY 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.

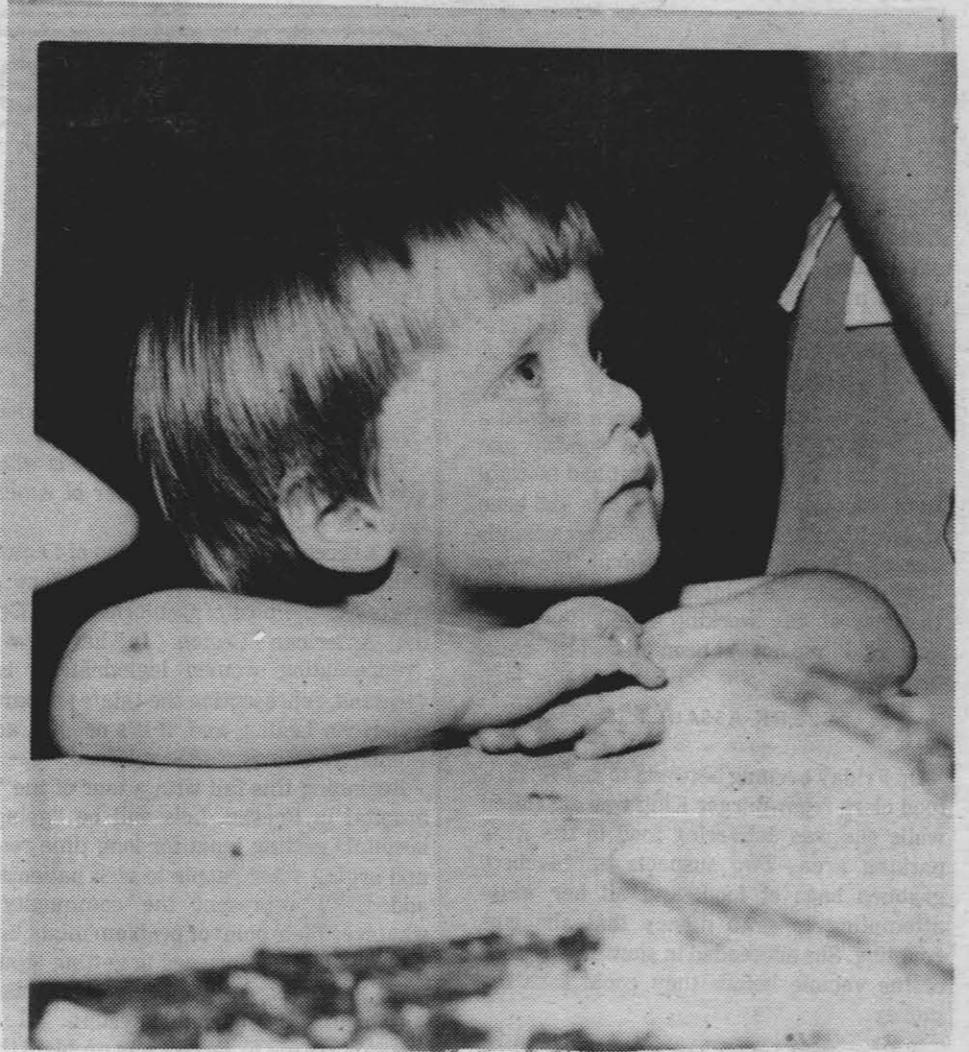
Classes begin on August 19. Late registration will continue through September 11.

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 principals.

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 canvases 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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July 24, 1981

Vol. XXXVI. No. 29

NAVAL WEAPONS CENTER  
CHINA LAKE  
CALIFORNIA

## 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 build 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.

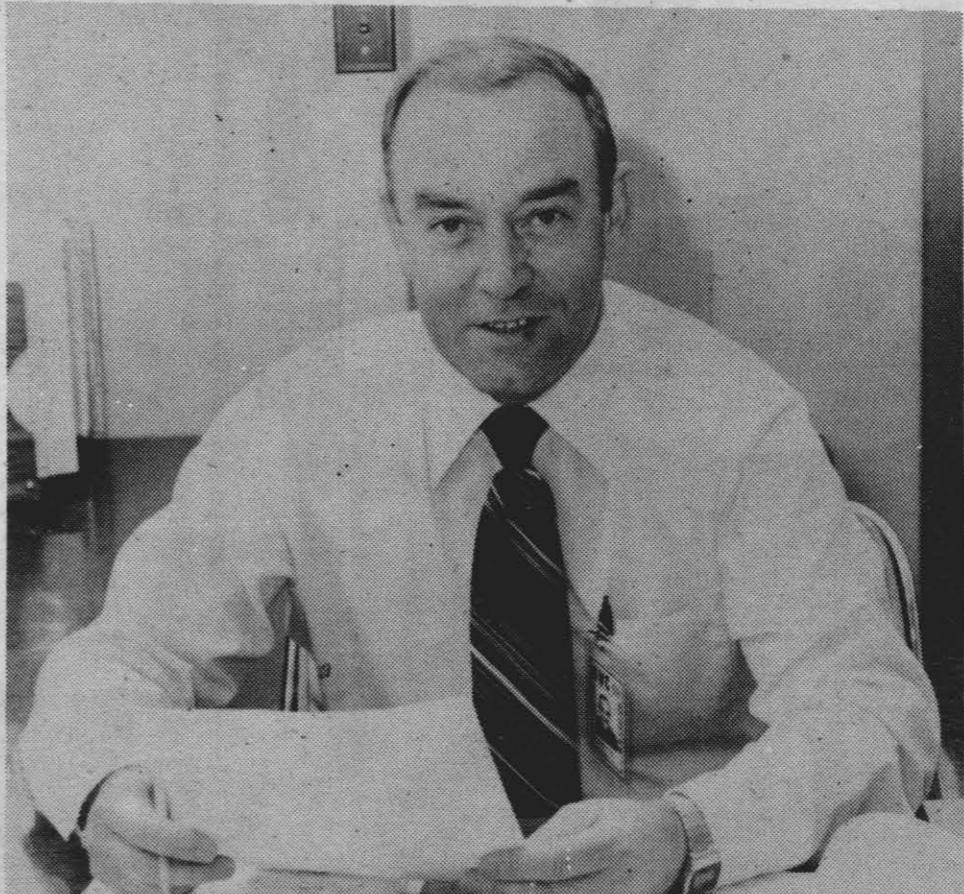
After coming to China Lake in 1960 as a Junior Professional, he began working at the Supersonic Naval Ordnance Research Track (SNORT), and then transferred to the Weapons Development Department in 1961 where he designed the control section electronics, telemetry systems, and test set for the Shrike missile.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

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 backpacker 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 position.

—Photo by Jeff Johnson

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

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 shooting of asphalt on Highway 395 around Randsburg.

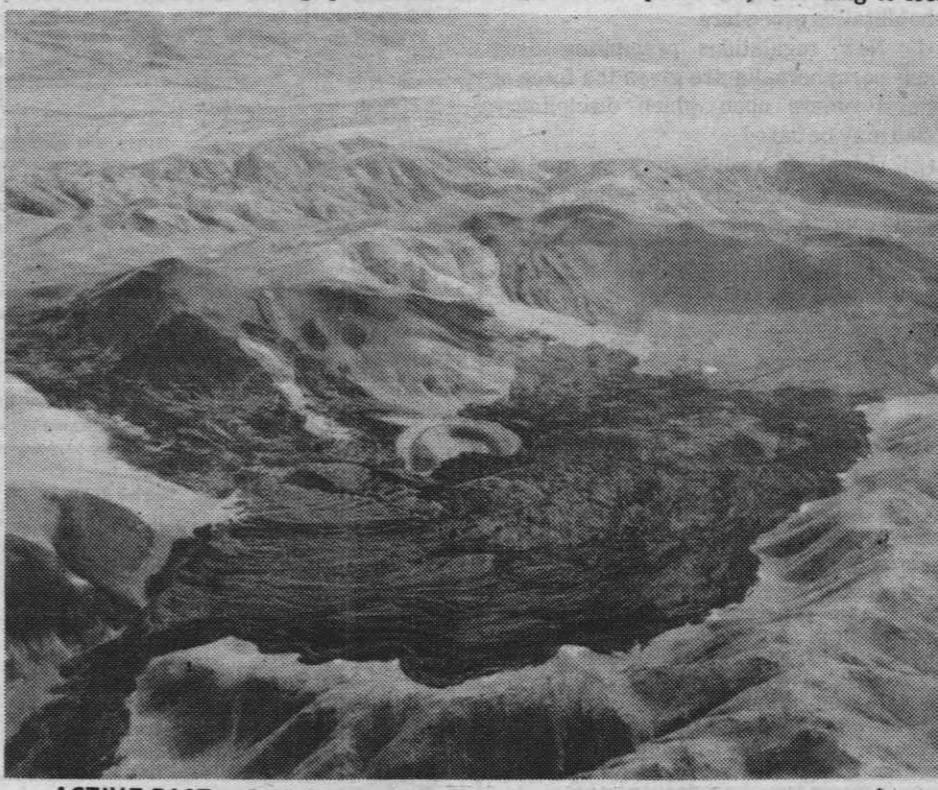
At least 30 volcanic eruptions have taken place in this region during the past 2,000 years, and the U.S. Geological Survey Volcanic Hazards Program includes the Mono Craters (near Mono Lake) as one of four volcanic areas showing potential for eruptions in the "near future." ("Near future" in geological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

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 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. Amand, 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. Amand, 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



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 ordinance and firepower in this region long before the Navy arrived.

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.

## The Rocketeer

Official Weekly Publication  
Naval Weapons Center  
China Lake, California

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NWC Commander

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Technical Director

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Public Affairs Officer

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Editor

Mickey Strang  
Associate Editor

Beverly Beckvoort  
Editorial Assistant



**News Stories**  
Photographs  
Tuesday, 4:30 p.m.  
Tuesday, 11:30 a.m.  
The Rocketeer receives American Forces Press Service material. All are official U.S. Navy photos unless otherwise identified. Printed weekly with appropriated funds by a commercial firm in compliance with NAVSO P-35 revised May 1979. Office at Nimitz and Lauritsen. Information published in the Rocketeer does not necessarily reflect the official view of the Department of Defense. Information in the Rocketeer is authorized for public release by the Naval Weapons Center Public Affairs Officer, Code 003. Phones 3354, 3355

### Training class

To enroll in the following classes students should submit NWC Training Request and Authorization Form 12410, 73, via department channels, to reach office 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. Saghorn, former professor at the Naval Postgraduate School.

FOR NAVY NEWS  
**P.A LINE**  
**X 2345**

## 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 position 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 OPM Handbook X-18; those for all wage system positions are those defined in OPM Handbook X-18C. 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. 2635, Supervisor Aerospace Engineer or Mechanical Engineer, DP-4, PAC No. 813640-E, Code 3626 — This position is that of Head, Control Design Branch, Systems Engineering Division, Engineering Department. The incumbent is responsible 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 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: ability to index and file; ability to work independently; and ability to work effectively with others.

Announcement No. 32-014, Electronics Engineer, DP-4, PAC No. 8135529, 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: ability to index and file; ability to work independently; and ability to work effectively with others.

Announcement No. 26-107, 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 with groups; and the ability to communicate orally and in writing with all levels of government and contractor personnel.

Announcement No. 35033, General Engineer/Aerospace Engineer/Electronic Engineer/Industrial Engineer or Mechanical Engineer, DP-3, PAC No. 8135520-E, Code 35045 — This position is located in the HARM Technical Management Office, Electronic Warfare Department and serves as the HARM Production Support Engineer (Code 35065). Incumbent supports the management of the technical aspects for production of the AGM-88/A High Speed Anti-Radiation Missile (HARM). Efforts include scheduling, planning, and coordinating the technical support from NWC on NAVAIR/SYSCOM contracts with production contractors. Position requires incumbent to coordinate the activities of various organizations, both on and off center. Job Relevant Criteria: Knowledge of production techniques and equipment; detailed knowledge of production 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.

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## 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 AO1 Larry Barnard, AMS1 Michael Fedak, AC1 Charles Waugh and AO1 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 Husek 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

and yellow cheese, while early risers are doing well at Arrowhead with red worms on small hooks.

Pan size rainbows at Lake Mamie are going after black worms, mosquito and black net flies. Those who prefer to fish in the late evening should head to Lake Mary where they can catch 9 to 12 inch rainbows using flies and Mepes lures from the shore. The fish at Lake George are also biting on flies and Mepes lures; these are mainly pan size trout.

Fish at Twin Lakes are residing on the bottom, but will go after eggs, worms, and yellow cheese. Pan size rainbows at Sherwin Lake find worms irresistible when those worms are dangled at the inlet. Only sun bathers are doing well at Horseshoe Lake; the fishing has been lousy.

Anyone fishing the Rock Creek Lakes will do well to take a siesta at midday because rainbows and brookies are going after flies and eggs early in the morning and late in the day.

### BOAT NEEDED

Head to Convict Lake if there's a boat along because the only fishing there that's been good has been from trolling deep with Flat-Fish and Needle-Fish. Crowley has been good for browns to 3½ pounds for fisherman in boats who use night crawlers and garden worms. Perch fishing is still very good there also.

Only those who can get a line deep are doing well at Lake Sabrina in the Bishop area. Lead core line and Dave Davis or Needlefish is the way to go, unless fishing from shore; in that case, a fisherman should use a Rooster Tail or salmon eggs. South Lake also is good for lead core line with a needlefish, and worms and eggs for those fishing from shore.

Fishing on the Owens River is fair. Those catching their limits of browns are using crickets and worms. The wily browns in the Pleasant Valley Reservoir have a hunger for salmon eggs and cheese, and so do those fish that lurk in Bishop Creek.

Closer to home, Big Pine and Baker Creeks are full of pan size rainbows that hunger for Pautzke eggs and worms. Independence Creek, Oak Creek and Symmes Creek have rainbows averaging 10 inches that are biting eggs, crickets, and worms.

Salmon eggs are working well with stocked rainbows swimming in Goodale and Taboose Creeks, while the pan size rainbows in Lone Pine and Tuttle Creeks like worms as well as eggs.

Fishermen in search of the beauteous golden trout need to head to the back country lakes. Crabtree, Rocky Basin and Wallace Lakes are full of 12 to 16 inch goldens that can be caught on barbless flies, mosquito or black net flies, and spinners.

## 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

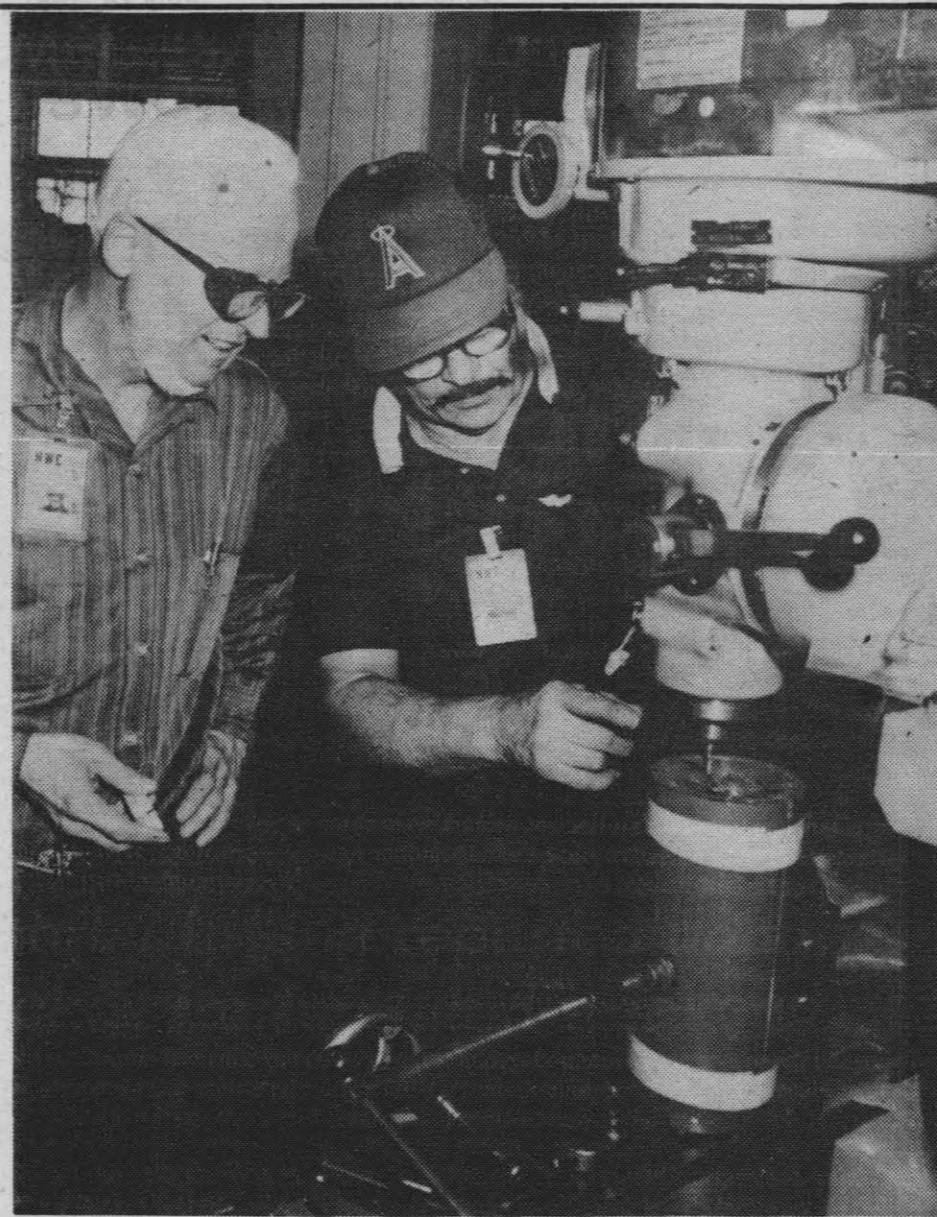
In California, all first time purchasers of a hunting license must first successfully complete a state-required Hunter Safety class before they can buy a hunting license. This is required regardless of age or if they have hunted in, or possess a hunting license of another state.

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.

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.

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.

## 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 Hinds 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. Hollandsorth, 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 Hinds will have the use of a rental car from Husek'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 Clancy's Claim Co. in Ridgecrest will round out her awards.



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.

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.

## Specialized equipment made in-house by glassblower

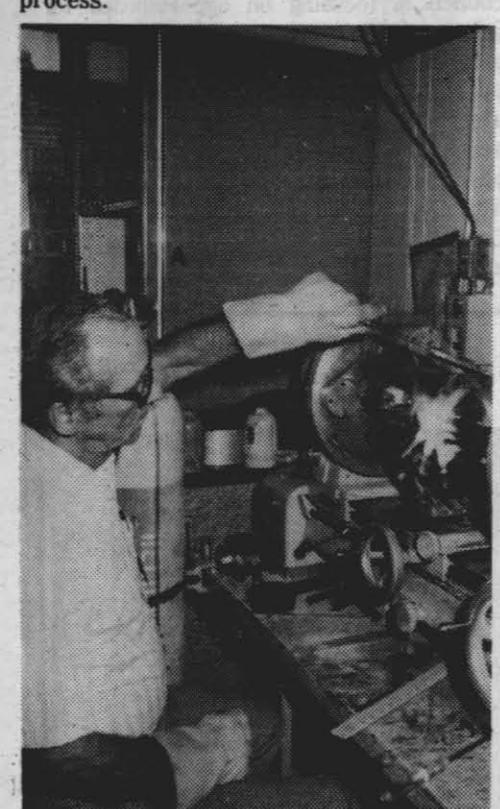
If a specialized piece of glass equipment is needed in a short amount of time, the man to see is Thomas Griffith Jr. He is the glassblower for the Chemistry Division of the Research Department.

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. Stoppered 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

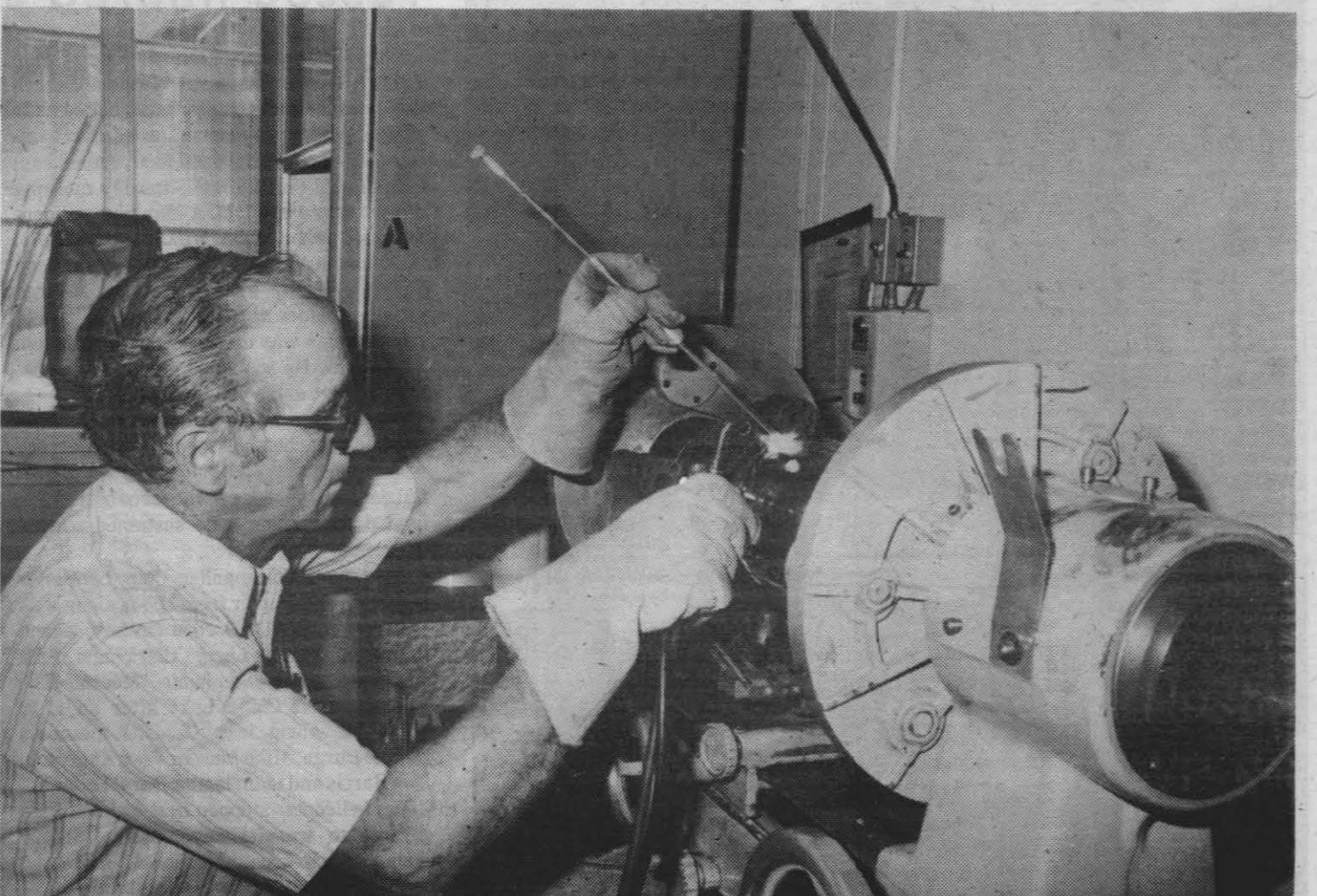
Safety glasses are a necessary part of a glassblower's equipment. "The glasses filter out the harsh rays of sodium light, which can be hard on the eyes," Griffith explains. Other equipment includes a lathe, which can be used to produce certain items in quantity and is also necessary for handling long 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 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 putting down a glass item with the broken or hot end facing away from you) will help prevent most cuts and burns.

— By Susan Priest



**STEADY AS SHE GOES** — A glass rod is melted to fill the void created by the pouring lips of the beakers as they are sealed

together. The lathe keeps the beakers spinning so that the seal will be of uniform thickness.

— Photo by Jeff Johnson

## 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."

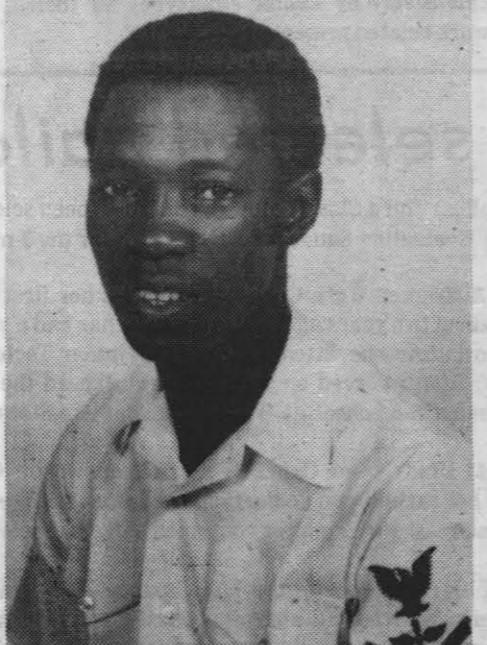
"Spirited hustle on the line and in-depth knowledge of the numerous complex

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."



**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."

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.

— By Elizabeth Shanteler

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

## 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.

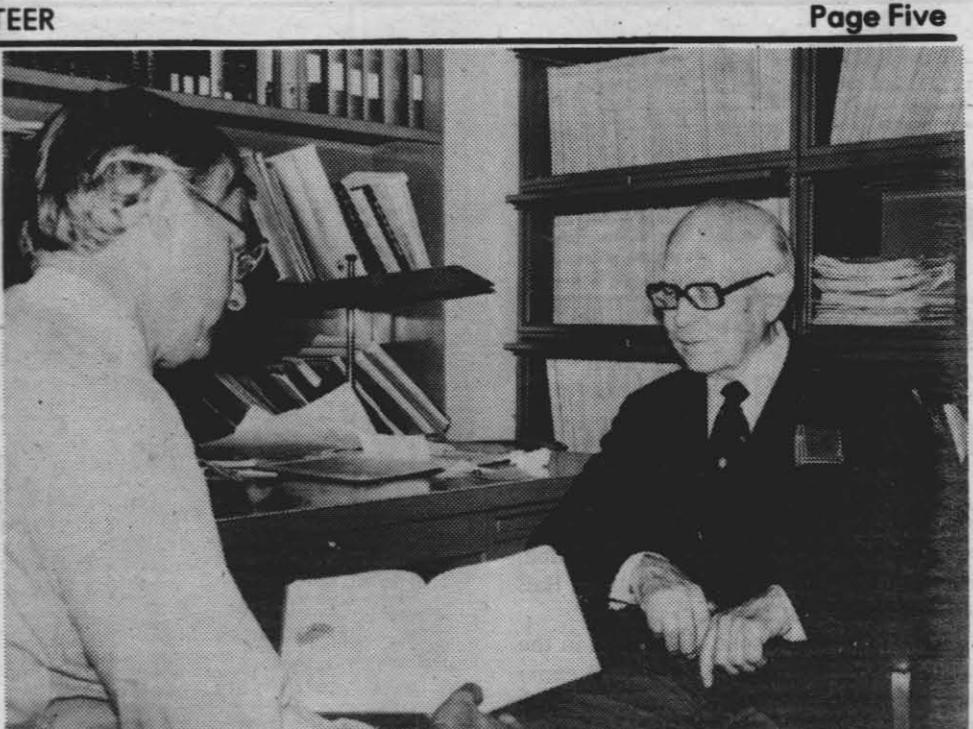
Listed in both "Who's Who in the World" and "Who's Who in Science in Europe," Prof. Urbanski came here from the Institute of Organic Chemistry and Technology in Warsaw, Poland.

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.



**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!"

It is important to have the proper background to function well in a position like the one Electa holds, and some of the prerequisites may sound a little surprising. Her undergraduate degree is in Social Studies, received from Glenville State College, Glenville, West Virginia. (Some of



**Electa Huston**

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 drier), 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*
Water Heating		
Quick-recovery heater	4,811	\$283.37
Water pump	231	13.61
Space Heating/Cooling		
36,000 BTU central air conditioner	7,000	412.30
12,000 BTU room air conditioner	2,100	123.69
Furnace	735	43.29
Kitchen Appliances		
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
Laundry Appliances		
Clothes dryer	993	58.49
Automatic washer	103	6.07
Iron	60	3.53
Entertainment		
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.

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.