



Divine Services

PROTESTANT	
SUNDAY WORSHIP SERVICE	10 a.m.
SUNDAY SCHOOL (Annexes 1, 2 and 4) September thru June	8:30 a.m.
BIBLE STUDY (East Wing)	
Tuesday 7:30 p.m.	(Nursery provided) September thru June
Wednesday 11:30 a.m.	September thru June
Thursday 7 p.m.	Officer's Christian Fellowship Christian Military Fellowship
ROMAN CATHOLIC	
SUNDAY MASS	8:30 a.m.
COMMUNION SERVICE (Monday)	11:35 a.m.
DAILY MASS (Tuesday through Friday)	11:35 a.m.
CONFESSIONS (Friday)	4:30-5 p.m.
RELIGIOUS EDUCATION CLASSES (Sunday) September thru June	10 a.m.
JEWISH	
WEEKLY SERVICES (Friday, East Wing)	7:30 p.m.
ADULT EDUCATION (Saturdays, Annex 4)	9 a.m.
RELIGIOUS SCHOOL (Sundays, Annex 95)	9 a.m.

Chaplain J. Milton Collins, Capt., CHC, USN
Chaplain A. J. Smith, Cdr., CHC, USN
Chaplain Jason E. Knott, Lt., CHC, USN
Phone, NWC ext. 3506, 3507

Sunday School registration opens

Starting on Sunday, September 8, the Protestant Sunday School will hold classes from 9 to 10 a.m. in the chapel annexes, west of the Branch Medical Clinic, as well as in the East Wing of the All Faith Chapel. Classes will be for all ages from age 2

through adults.

Registration for these classes will begin on Sunday, Aug. 18, after the morning worship service and in the chapel office during the week. Those who are interested can also register by telephoning NWC ext. 2873.

Employee in the Spotlight

Carl Halsey finds 35 years at China Lake continuous learning experience

China Lake has been one continuous learning experience for Carl Halsey, now Associate Division Head for Public Works Department's Geothermal Utilization Division.

From the time he started at the then Naval Ordnance Test Station in 1950 until today, Halsey has been a man on the go. Counting four years active duty in the Air Force he has 35 years of Federal Service, each of them, in his view, rewarding.

In the course of his 30-plus years association with China Lake, Halsey has been all over the world. As he put it, "from Vietnam as a civilian to the Republic of Senegal and most points in between."

The associate division head says he couldn't have done it without the tremendous support he's received from his wife, Marie (who works in the Supply Department) and their sons, Greg, Ron, and Dave. Their support and understanding when he was on the road frequently made it much easier to carry out his job.

Halsey joined the China Lake team in 1950, went in the Air Force for four years,

came back to the NOTS Research Department in 1955 and in 1960 transferred to the station's annex facility at Pasadena.

It was back to China Lake for Halsey in 1966 when the Pasadena lab broke away from NOTS. He noted all the China Lakers who had transferred to Pasadena were given the option of returning to China Lake when the separation time came.

Halsey stayed with NWC's Research Department until geothermal activities were transferred to Public Works Department control in 1977 with Dr. Carl Austin, Division Head.

NWC has led the way for the Navy and DOD in exploring alternate energy sources and the Center's geothermal program is the only one like it in the Navy at this time, said Halsey.

His involvement in recovery of a missing nuclear bomb off Palomares, Spain in 1966 by CURV (Cable Controlled Underwater Research Vehicle) developed at NOTS' Pasadena Annex was a high point of Halsey's career.

As associate division head, Halsey is responsible for keeping geothermal

Smallpox vaccinations needed despite no new cases in world

The last natural case of smallpox in the world occurred in 1977, and there hasn't been a case in the United States since 1953. But the U.S. Armed Forces continue to vaccinate new recruits against the disease. Why?

Air Force Lt. Col. John R. Herbold, DVM, PhD, a senior policy analyst with the Office of the Assistant Secretary of Defense for Health Affairs, answers: "To deter the potential use of smallpox virus as a biological warfare agent against our troops."

The question of whether to continue vaccinating troops against a disease that has been "eradicated" has been considered by the Armed Forces Epidemiological Board for the last 10 years. The board has stated that public health consideration would dictate that routine smallpox vaccinations be discontinued, but added "its continued use in military forces should be a command decision based on intelligence information and strategic needs," says Herbold.

Following a careful deliberation, the assistant secretary of defense for health affairs decided in March that the military would continue to immunize all military personnel against smallpox.

Last year the services temporarily suspended smallpox immunization. "This," says Herbold, "caused some misunderstandings. The reason the vaccinations were interrupted was because of a shortage of Vaccinia immune globulin, a biologic product used to treat people who suffer complications from vaccination." Once the shortage was overcome, the vaccinations were resumed.

"However," says Herbold, "an equal concern with the vaccinations is the protection of the public health. Since pediatricians stopped immunizing children against smallpox in the '70s, more and more civilians have not been immunized." The vaccine is a live virus and can exist at the vaccination site for more than 10 days. Accidental contact with the vaccinia virus could cause complications.

Since recruits are generally isolated from the general population during basic training, this is usually not a major concern. "However," says Herbold, "if someone had to go home on emergency leave, they would need to be aware of the precautions to prevent secondary spread." Herbold points out that the potential for secondary spread comes only through "close contact with a susceptible individual."

Although the potential for individual vaccine complications can be minimized by screening an already select and healthy population, such as military recruits, prior to immunization, Herbold emphasized that "each service medical department has been directed to document and evaluate complications associated with immunization, so that an on-going risk-benefit assessment can be accomplished."

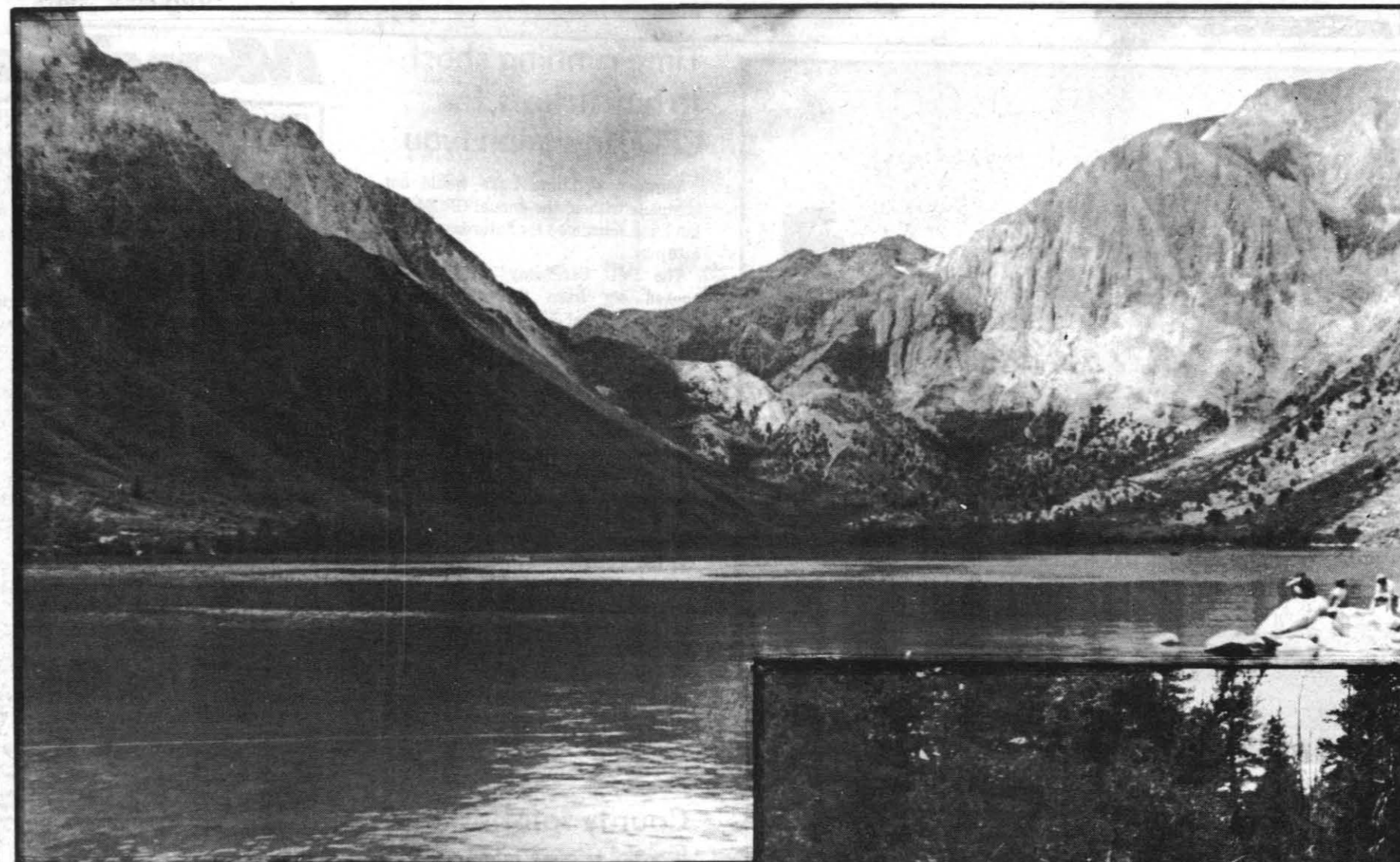
By Tom Joyce
American Forces Information Service

Students new to area schools can register now

Students who are new to the Sierra Sands School District should be registered for the new school year as soon as possible to make effective pre-school planning possible.

Anyone new to the Indian Wells Valley is asked to register their school-age children at the Sierra Sands School District Office, 113 Felspar in Ridgecrest, between 7:30 a.m. and 3:30 p.m. any weekday. Proof of age and immunization records are needed at the time of registration.

School will open in the local area on Tuesday, September 4.



ALPINE LAKE SCENE — Taking advantage of a mild summer day, sunbathers, anglers and boaters enjoy Convict Lake's balmy environment.

Scenic drive to Convict Lake

One of the High Sierra region's most popular roadside fishing lake is Convict Lake, just a couple of miles west of Highway 395 between Bishop and Mammoth.

Photos by Mickey Strang

Resting at nearly 8,000 feet in elevation, Convict has long been a popular spot for anglers. Opening weekend this year found anglers elbow-to-elbow nearly all the way around the lake and more lined up to launch boats.

Convict Lake Lodge and the Convict Lake Pack Station offer lodging and guided trips into the back country lakes like Edith, Dorothy and Purple Lakes.

In addition the Inyo National Forest maintains a large campground at Convict Lake.

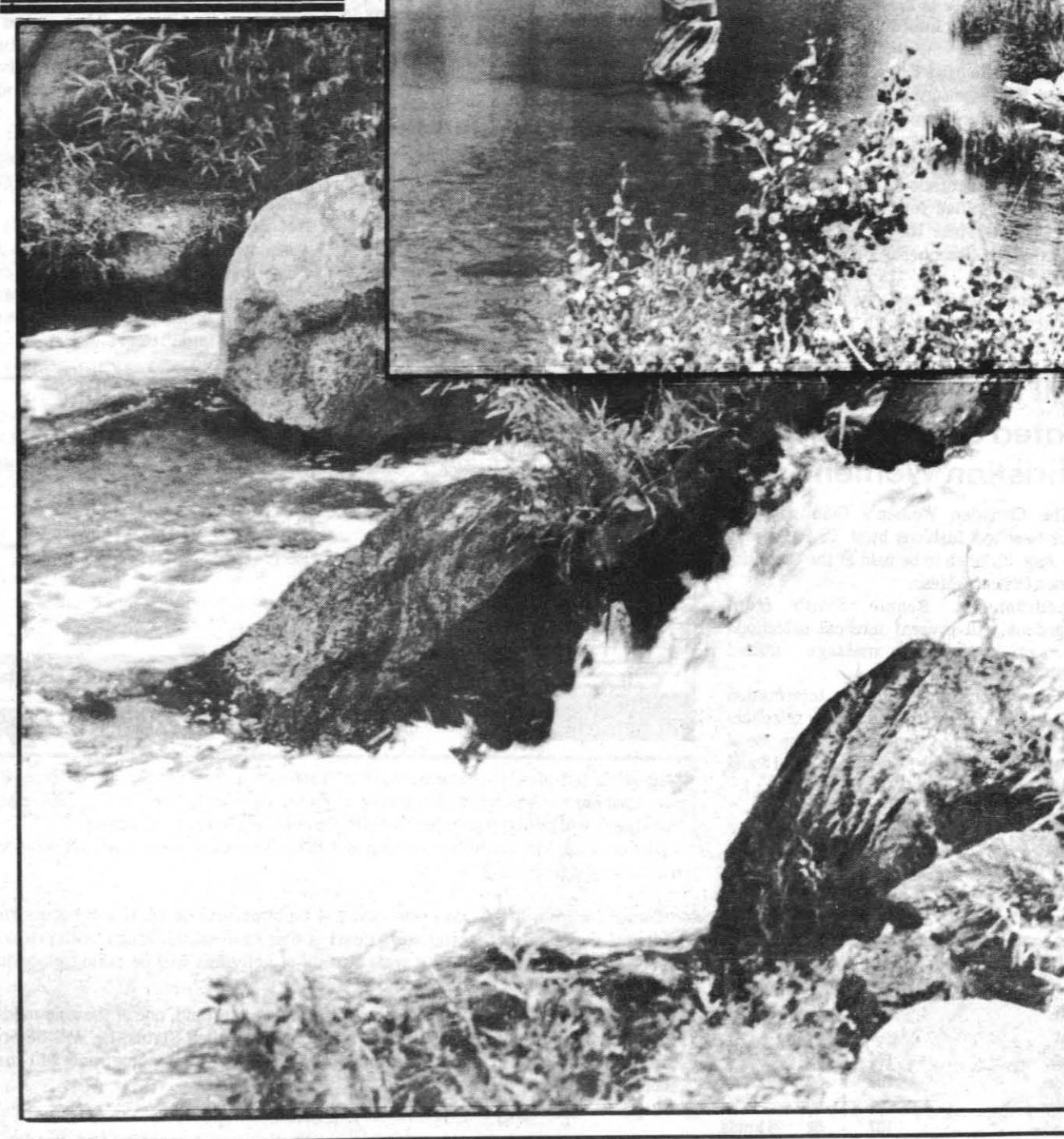
From Convict anglers have easy access to the Upper Owens River, Hot Creek, Crowley Lake and the Mammoth Lakes area. It is also just a short drive to Rock Creek Lake, June Lake Loop and some of the best trout streams on the eastern slope of the Sierra Nevada.

The latest fishing report from Convict told of anglers catching lots of pan-sized rainbow trout and a few larger brown trout. There are also numerous golden trout being taken from some of the back country lakes within a day's easy hike from Convict Lake.

Anglers seeking the big trout can spend part of their time at Crowley where the new extended season features a two-trout limit. Keepers must be at least 18-inches long and anglers may use only a single, barbless hook, artificial lures only, no bait. There are lots of trophy size rainbows and browns in the depths of Crowley, this new season is seen as a way to encourage a trophy fishery in the lake.

Convict is about 170 miles north of Ridgecrest, an easy, scenic drive up the Owens Valley and over Sherwin Summit.

COOL AND CLEAR — Cascading downstream, Convict Creek helps provide water for fishing at Crowley Lake and then becomes part of the massive aqueduct system that feeds drinking water to millions in the Los Angeles basin.



GEOTHERMAL WORK — Carl Halsey, associate head of Public Works Department's Geothermal Utilization Division, talks about geothermal development at China Lake with Sharon Berry, head of the division's project office. — Photo by PH2 Rick Moore

NWC Rocketeer

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NEW TO CENTER — Al Kardos is the new head of the Security Division in the Safety and Security Department. — Photo by PH2 Rick Moore

Key to good security mainly education says Security Div. Hd.

"Security is 95 percent education and five percent enforcement," says Al Kardos, new head of the Security Division of the Safety and Security Department. He continues, "It's really a collective responsibility for everyone from each workman to the base Commander to make security part of day-to-day operations." Kardos believes that professionals in the field should help solve problems, not create them. "We've got the responsibility for administering the security program, but we can do so only when everyone helps." Communication, he feels, is the essence of getting the cooperation of everyone, and cooperation is strictly a two-way street. "When you can talk a situation through — and how much security is required is often very much a value judgment — even if you don't agree, you might be better able to accept a situation, that's success," Kardos says.

Research and Development (R&D) and manufacturing, which collectively gave him a good data bank of understanding that he brought with him into Civil Service in 1972 when he went to work for the Defense Logistics Agency (DLA) in Los Angeles. His DLA assignments took him to Los Angeles, Santa Barbara, and to Richmond, Virginia, where he taught at the Defense Security Institute for two years. Industrial and physical security, asset protection and emergency management, were only a few of the subjects that he taught. In 1980, the industrial security function was transferred from DLA to the Defense Investigative Service (DIS). From Virginia he transferred to San Francisco where he has spent the last four years with DIS. At DLA and DIS, he was mainly involved with the industrial security program. Good security requires a partnership between government and industry, and such a partnership is needed in any work environment, he says.

Although he's worked in almost every aspect of security over the last 22 years, he contends one has to have both a good sense of humor and a very thick skin to survive. Kardos does admit that the security profession has a level of frustration second to none; however, he remains enthusiastic about his field and his assignment to NWC. His experience has been varied. He spent 10 years on active duty in the Army, plus 22 years of Army Reserve, most of it in Military Intelligence as a Special Agent. In addition, he spent eight years in industry. Kardos attended California Lutheran College in Thousand Oaks, California, where he earned both bachelor's and master's degrees in the administration of justice.

In industry, Kardos says, he got his first exposure to having to worry about the cost of implementing a program. Government today, he notes, has to be just as cost-conscious in figuring "cost-to-benefit" ratios of programs as industry has always been. In industry, he worked in electronics, Hospital dietician to speak at meeting of women's network

Lorraine C. Baty, Clinical Dietitian, Ridgecrest Community Hospital, will be the speaker for the East Sierra Careerwomen's Network meeting on Wednesday, Aug. 28. Her topic will be "Food Habits for Healthy Living." All interested persons are invited. The meeting will be at Le Parc Restaurant on Norma Street in Ridgecrest with networking to begin at 6 p.m. and dinner at 7 o'clock. Prepaid reservations are required. The price of \$8.50 per person includes a choice of fruit plate with sherbet or crab salad, desert, coffee or tea, tax and tip. Reservations may be made by sending a check to ESCN, 429 Tepatitan Court, Ridgecrest, CA 93555. Tickets may also be purchased at the Chamber of Commerce office, 303 South China Lake Boulevard, Ridgecrest. Anyone who has questions about the meeting or about ESCN should telephone 446-6164 after 4:30 p.m. or should telephone 377-5186.



A citizen complaint (traffic) was filed by Capt. K. A. Dickerson against a summer employee who was traveling at an excessive rate of speed and driving recklessly on the airfield access road. The complaint will be forwarded to East Kern Municipal Court. The temporary employee is no longer employed by the Naval Weapons Center. Two drivers stopped for traffic violations by the China Lake police were found to be under the influence of alcohol. In each case, the driver was held for five hours at the CLPD, then cited into East Kern Municipal Court and released. Unknown persons removed a sharpening stone from a work area at Armitage Airfield. The missing stone costs \$100. A wallet, whose value is \$11, was taken from an unsecured locker at the Center gym. When the rider of a motorcycle hit sand on the road, the cycle spilled. The driver sustained injuries that were treated at Ridgecrest Community Hospital, and the motorcycle received minor damage. When the resident of a house in the Site B Capeharts returned home Friday, she found that the glass in her sliding glass door had been shattered. Replacement cost for this act of vandalism is \$150. Unknown persons set fire to a telephone pole at Knox Road and Burroughs Avenue. Police are investigating the arson. An unknown person threw a burning object into the seat of a victim's car, causing \$50 damages. A juvenile was apprehended Saturday while trying to steal a carton of cigarettes from the Minimart. The juvenile was released to his grandmother.

shelter is incredible; we provide clothing, toiletries, food — when women leave (their homes), they pretty much have the clothes they are wearing and their children with them," says Mrs. Combs-Henry. In addition to donations, volunteers are more than welcome. They operate the shelter hotline, a 24-hour crisis hotline established in 1983. Volunteers take two shifts per month, either from 6 a.m. to 6 p.m. or 6 p.m. to 6 a.m. These volunteers complete approximately 12 hours of training and attend monthly inservice meetings where they learn how to better assist potential clients and clients of the shelter. "They are," according to the Executive Director, "the backbone of our organization...I really depend on them." Of the shelter program, Mrs. Combs-Henry says, "There is an intake process; women cannot come here just for respite. While staying at the shelter they complete a program that takes anywhere from two weeks to 30 days." In this time period, volunteer and professional assistance is given in order that the women may begin new lives. Stressing that domestic and family violence occurs across all social and economic levels, Mrs. Combs-Henry says that it is not found in only one particular segment of the population. She also points out, "Family violence is a learned behavior. Ninety-eight percent of abusers have been abused themselves or watched Dad beat up Mom. Children who live in abusive households quickly learn to lie; they will do anything to keep peace in the house." For more information regarding the High Desert Women's Shelter Network, telephone 375-7525.

Shelter opens in Ridgecrest to house victims of family violence

A new shelter for victims of domestic and family violence will be operational as of September 1, according to Trish Combs-Henry, Executive Director of the High Desert Women's Shelter Network. Incorporated in 1978, the Women's Center served as an information referral agency regarding counseling and legal, medical, economical, and other issues. Last February, the Women's Center received a \$5,000 Federal Emergency Management Act grant with which Mrs. Combs-Henry was able to prove a definite need for a shelter in the local area; from February to June, 371 shelter days were provided to women and their children who removed themselves from violent situations. Transportation can be provided from homes to the shelter. Women seeking assistance are urged to call 375-7525 at any time. After proving a need for a shelter in the Indian Wells Valley, the next step taken by the Women's Shelter was to apply for a grant from the Emergency Shelter Program; a small amount was awarded to East Kern County, Boron, California City, Lake Isabella, Mojave, and the IWV are included in this service which is provided to military and civilian women in these areas at no cost to them. According to Mrs. Combs-Henry, this grant will allow the shelter to lease a home in the local area. (For safety reasons, the location of the shelter will not be disclosed.) However, "The grant doesn't cover operational costs because we're a non-profit organization," she adds. For this reason, gifts such as clothing and other items essential for a positive living environment, along with cash donations are always accepted. "The cost of running a

IWV Navy League members, potential members to gather

All members of the Indian Wells Valley Council of the Navy League and those interested in becoming members are invited to attend the August dinner meeting, which will be held at El Chorro Avitia restaurant in Ridgecrest on Thursday, Aug. 15. Following a social hour that begins at 6:30 p.m., dinner will be served at 7:30. Menu choices are a combination plate, a taco salad, or a chimichanga; each is \$7.50 per person. Reservations are required and should be made by Aug. 13 by telephoning 446-5488, 375-4272 or 446-2538.

Badge photo schedule

Personnel from the Badge and Registration Section of the Security Division will be taking pictures and issuing the new government identification cards to civilian and military personnel next week at the IOB conference room on Monday and Tuesday from 7 a.m. until 4:30 p.m. On Wednesday and Thursday, they will be at the RCC conference room adjacent to Room 306 from 7 a.m. until 4:30 p.m., and will be at the HARM conference room in the Thompson Laboratory on Friday, Aug. 16 at the same time. Later this month they will be at the airfield, Michelson Laboratory, and the Enlisted Mess. Personnel are asked to come prepared to have their pictures taken. The photos will be used for the new Restricted Area Access Passes to be issued later. No appointments are necessary for issuing of passes or getting a picture taken. Personnel may get their cards at the time and location best suited to their needs regardless of work site or department.

'Home' has legal meaning for servicemembers

After 25 years in military service and 26 different moves, asking someone where his or her home is can be a real difficult question to answer. Some people may not think too much about it, but one's place of residence is very important. Especially when it comes to taxes. Military people move frequently and state tax laws vary widely. For example, Texas and Nevada have no state income tax. Other states tax federal military salaries regardless of where the member is stationed. A member's liability for taxes is protected in some ways by the Soldiers and Sailors Relief Act, says Maj. Rex Fuller, deputy director of Legislation and Legal Policy for the Department of Defense. "The Act says a military member cannot be taxed merely because the member is in a particular jurisdiction as a result of military orders."

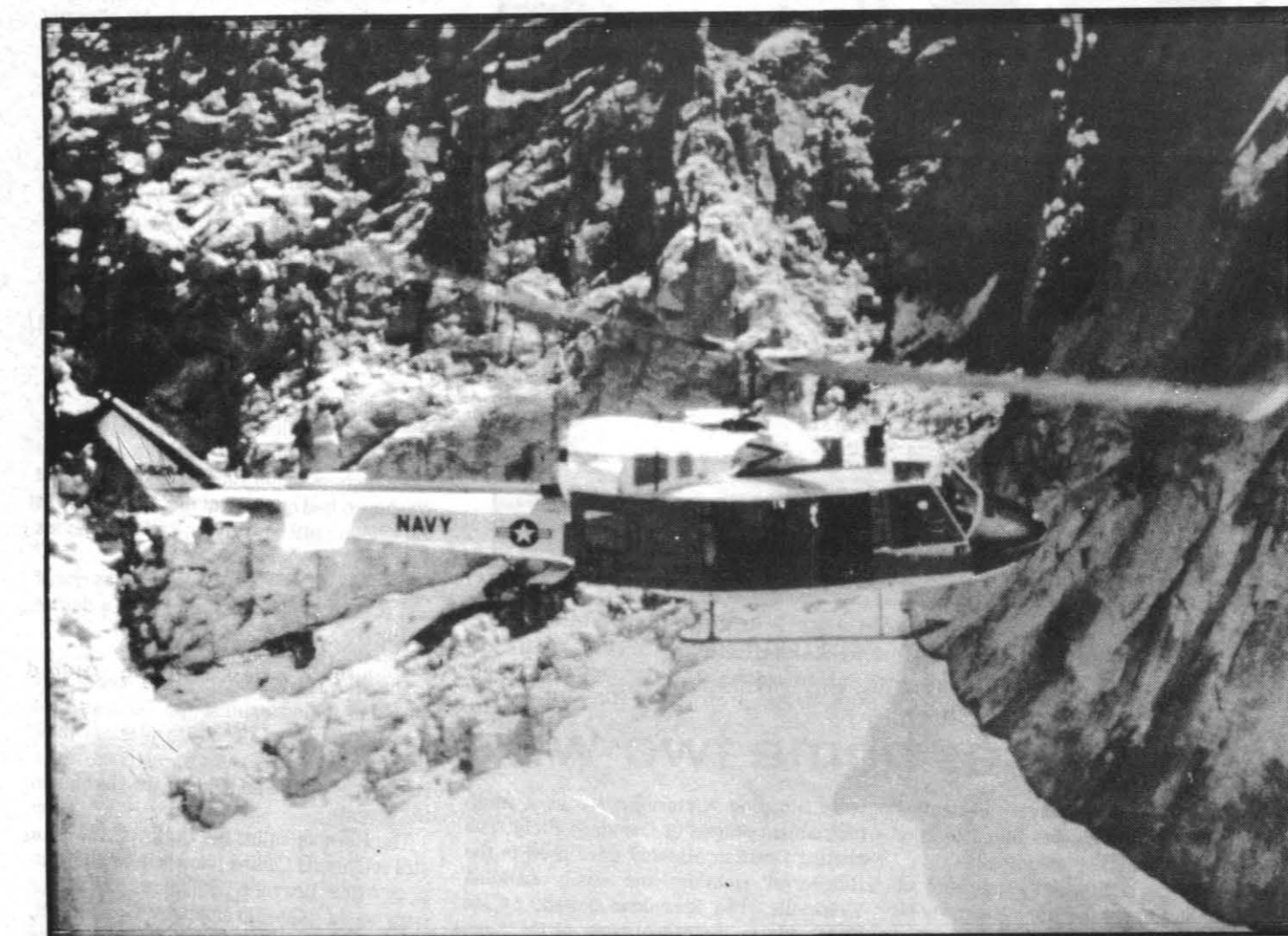
This is intended to protect military members from liability for state taxes on military pay outside of their permanent domicile. Otherwise, some service people might get hit for taxes in the state they are stationed as well as their legal domicile. "Domicile is a legal term," explains Fuller. "It's defined differently in different states. But generally, your domicile is where you were born or, once emancipated (having left your place of birth), the place you lived with the intention of permanently living there."

Since intent is an important part of the law, how is it established? The legal people use the phrase "outward manifestation." In other words, does a person behave like a given place is where they intend to live? Some examples of outward manifestation of establishing legal domicile: — Registering and actually voting in the state — Obtaining a driver's license — Owning property — Registering a will — Sending children to school

— Paying taxes in the state It's important to note that in expressing your intentions in regard to a legal residence you should not lie. You could be prosecuted for false swearing. The term "home of record" is only significant within the military service, and shouldn't be confused with legal residence. Home of Record is the place from which you entered the military, or to which your goods are shipped when you depart the service. Your pay is not reported to your home of record. The state that you declare on your W-4 form gets the state withholding taxes. When it comes to determining your legal residence, Fuller suggests asking the local Staff Judge Advocate. Center's SAR helo... (Continued from Page 1)



Military News



WELCOME SIGHT — The Center's Search and Rescue helicopter nears the site where an injured climber awaits rescue in the Sierra. Many of those who are injured in the mountains would not be able to survive if they had to be carried out rather than being airlifted to a hospital for emergency treatment.



ACCURATE MESSAGE — The motto on the patch worn by SAR crews says it all — "So others may live."

THE LOWER THE BETTER People who are physically fit generally have lower resting heart rates than those who are not, which means that their hearts don't have to work as hard to pump blood. A reduction of 10 beats per minute in a person's resting heart rate can save over 3 weeks of work for the heart over the course of a year.

Simple precautions can enhance security

The hijacking of TWA Flight 847 and subsequent holding of 39 American hostages for 17 days has brought the subject of terrorism to the forefront of people's minds once again. Some people are beginning to wonder if Americans, and especially American service people both here and abroad are safe. The answer, according to Lt. Col. Alexander C. Wylie, chief, Security Operations Division of the Department of Advanced Military Police Training at the Army Military Police School, Fort McClellan, Ala., appears to be: basically, yes. "Service people should not become paranoid," he says. "The odds of being involved in a terrorist incident are very low." However, Wylie says certain precautions can be taken that may help avoid becoming victims of terrorist incidents. The first thing is to become aware of your surroundings. "Look for things out of the ordinary," cautions Wylie. "If there is someone watching you, your home or the area you work, don't hesitate to report it to law enforcement personnel." Wylie says to look for strangers who loiter (especially people with cameras) in

the same general area over a period of time. Be aware of suspicious-looking vehicles that reappear several times a week. "Most of all, report out-of-the-ordinary things that make you take notice." Wylie says there are other precautions people can take, but those precautions are determined by the level of the threat in the area you are living or traveling. In high-threat situations, Wylie suggests varying your routine. "Leave for work and return home at different times," he suggests. It's also important to alter the route you take to work. "But be especially careful once you are in close proximity to where you work or live," he says. "Terrorists know that once you get close to those places, it's more difficult to vary your routine." Once again, Wylie emphasized that these precautions should be taken only if the threat warrants it. People traveling on temporary duty should also take extra precautions. "Travel orders contain a wealth of information valuable to potential terrorists," says Wylie. They usually include travel plans, lodg-

ing and modes of transportation. In addition, in making travel arrangements, copies of the orders are given out which makes the travel plans accessible to many different people. Wylie points out that higher-ranking individuals should restrict the number of people who have access to their daily itineraries. When it comes to hijackings, Wylie says there is little anyone can do; however, Department of Defense officials suggest that service people involved in hostage situations remain calm and maintain a very low profile. These officials suggest that service people neither volunteer information concerning their affiliation with the military, nor should they hide it if asked. They say that if the information is found out later, the repercussions could be more serious. "Most importantly," says Wylie, "be aware of what terrorism is and know what the threat is in the area you may live or travel." Wylie recommends contacting your service's intelligence people to determine the level of threat in the areas through which you travel.

NWC Gold needs six golfers

All active duty personnel not attached to VX-5 or Code 61 can try out for the NWC Gold Commander's Cup Golf Team. HM1 Corder is designated as team captain for the scratch play competition. Each team, NWC Gold, NWC Blue and VX-5 will have six golfers. Golfers interested in playing golf for NWC Gold should call HM1 Corder at NWC ext. 2911, 225 for more information. Entry deadline is Monday while the Commander's Cup match will be played on Aug. 21. If more than six golfers register for the NWC Gold team a match will be held on Thursday, Aug. 15 and the top six golfers will qualify for the team competition.

CSCI 322: ARTIFICIAL INTELLIGENCE (3 units)
28, 29 September; 2, 3 November; 23, 24 November; Saturday and Sunday; 0800-1600; Safety Building. By: Professor Bruce Pampin, CSUC.
Prerequisite: Graduate status.
Scope: Seminar on current topics in artificial intelligence. Topics are selected from deductive systems—problem solvers and games; inductive systems—pattern recognizers and learning systems; cybernetics—models of human intellectual processes; applications—robotics and natural language translators.

CSCI 227: DISCRETE SIMULATION SYSTEMS (3 units)
18-20 October; 15-17 November; 13-15 December; Friday, 0800-1200; Saturday and Sunday, 0800-1600; Safety Building. By: To be announced.
Prerequisite: CS16 or 23. Probability and statistics recommended.
Scope: Principles of system modeling, simulation models and languages, discrete systems, industrial dynamics, use of probability concepts, queuing patterns, case studies.

CSCI 151: DATA AND PROGRAM STRUCTURE (3 units)
6-8 December; 10-12 January; 7-9 February; Friday, 0800-1200; Saturday and Sunday, 0800-1600; Safety Building. By: Professor Melody Duncan, CSUC.
Prerequisite: CS16 (Pascal Programming).
Scope: Traditional data structures are examined as they relate to information representation, parameter passing, recursion, assemblers, compilers, operating systems, and machine organization.
Note: This is a core class required for all options (BS and MS).

MATH 477: LINEAR ALGEBRA (5 quarter units)
26 September-5 December, Thursday, 1600-2100 (1-hour dinner break), Safety Building. By: Professor El Ansary, CSB.
Prerequisite: Math 6C (third semester calculus).
Scope: Systems of linear equations, matrices, vector spaces, dimensions, determinants, linear transformations, eigenvalues, and eigenvectors.
Note: This is a required class for the BSCS Math-Science option and an optional requirement for the BSCS systems option and as foundation for the MSCS.

SPANISH 320: HISPANIC-AMERICAN CULTURE AND CIVILIZATION (5 quarter units)
23 September-9 December, Monday, 1600-2100 (1-hour dinner break), Safety Building. By: Professor George Yviricu, CSB.
Scope: An overview of music, arts, literature, customs, institutions, and technology, past and present, as they affect the development of Hispanic-American culture and civilization from its beginning to the present day. The course is given in English.
Note: This upper division course satisfies General Education Goal VIII. It also satisfies the CSUC ethnic studies requirement.

The following Cerro Coso fall classes are foundation classes for the BS and MS program in Computer Science: CS15, CS16, CS23, CS26, Math 6A, Math 6C, Chem 1A, Phys 1B.

Professor Madrigal will be at NWC on 15 August to counsel students. To obtain an appointment, call Kit, ext. 2648.

Oops, we goofed

Oops — we goofed!
On the long term training section of last week's Personnel insert, Van Hodgkin was identified as a Research Chemist. As he and his co-workers well know, he's a Research Physicist.
The Rocketeer regrets having mis-identified his title.

MECHANICAL ENGINEERING

ENGR 420A: ADVANCED MECHANICS OF MATERIALS (3 units)
4 September-18 December, Monday and Wednesday, 1600-1730, Safety Building. By: Bob Rockwell, ext. 5644.

Prerequisite: Statics and Strength of Materials or consent of instructor.
Scope: Multiaxial stress and strain, theories of failure, unsymmetrical bending, shear center, thick curved beams, beams on elastic foundation, pressurized containers, structural stability, energy methods, introduction to bending and buckling of plates.

Text: *Advanced Strength and Applied Stress Analysis*. Budynas. McGraw-Hill.
Note: This class is a prerequisite for ENGR 518, Theory of Elastic Stability, tentatively scheduled for next fall (1986); and is also a prerequisite for ENGR 520A, Advanced Materials Engineering (Fracture Mechanics), scheduled for spring 1986.

ENGR 509: NUMERICAL METHODS IN ENGINEERING SYSTEMS (3 units)

3 September-19 December, Tuesday and Thursday, 1600-1730, Training Center Annex. By: Charles Kenney, ext. 3597.
Prerequisite: Knowledge of FORTRAN programming. Basic course in numerical analysis strongly recommended.

Scope: Application of numerical techniques to selected problems in engineering. Coverage includes both classical and recently developed methods. Emphasis will be on phenomena described by ordinary and partial differential equations with applications to structural analysis, heat transfer, and fluid mechanics, and electromagnetic fields and waves.

Text: *Applied Numerical Analysis*. Gerald. Addison Wesley.
Note: This is a core class for the MS Degree, Mechanical Engineering, and Applied Mechanics option.

The following foundation class is being offered this fall at Cerro Coso:

ENGR 24: STATICS AND STRENGTH OF MATERIALS (4 units)

(Consult Cerro Coso fall bulletin for time and place)
Note: This class is a prerequisite to another foundation course, ENGR 309 Engineering Dynamics, that is scheduled for summer 1986.

Texts are available at a local bookstore.

BACHELOR'S DEGREE

A meeting will be held Tuesday, 13 August, in the Mojave Room of the Commissioned Officers' Mess at 1000 to outline and discuss the new undergraduate program in electrical engineering being established through Cal-State Northridge. Cerro Coso's new pre-engineering program, an integral part of the 4-year program, will also be introduced. There will be handouts and a question and answer session. If you plan to attend or have any questions, call Steve Lee, ext. 2468.

The following fall Cerro Coso classes are required for the program:

ENGR 24: STATICS AND STRENGTH OF MATERIALS

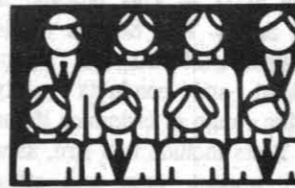
MATH 6A: ANALYTIC GEOMETRY AND CALCULUS I

MATH 6C: CALCULUS III

PHYS 1B: ELECTRICITY AND MAGNETISM

CHEM 1A: GENERAL INORGANIC CHEMISTRY

CS 23: FORTRAN PROGRAMMING



Promotional Opportunities

Applications for positions listed in this column will be accepted from current, permanent NWC employees and from eligible employees of attached activities who are permanently assigned to NWC unless otherwise specified in the ad. Alternative recruitment sources may also be used in filling these positions; vacancies are subject to restrictions imposed by the DOD Priority Placement Program. Applicants must meet all legal and regulatory requirements including minimum qualification requirements by the closing date. Applicants will be evaluated on the basis of experience, education, training, performance ratings and awards as indicated in the SF-171 along with any tests, medical examinations, performance evaluations, supplemental qualification statements and/or interview that may be necessary. Career ladder promotions are subject to satisfactory performance and cannot be guaranteed.
APPLICATION PROCEDURES: Candidates must submit a current SF-171, along with a supplemental qualifications statement (if required), and should submit a copy of their latest Annual Performance Evaluation if relevant to the vacancy. If a supplemental statement is not required, candidates are encouraged to submit additional information which addresses the specific Knowledges/Skills/ Abilities (KSAs) cited in the ad. Write the position title/series/level and announcement number of the SF-171 and all attachments. Be sure that your forms are complete and accurate since you cannot be rated on missing data nor will you be contacted for additional information. Be certain the SF-171 and supplement are dated and have original signatures in ink.

All applications will be retained in the vacancy announcement file; they will not be returned or filed in official personnel folders. Applications and supplements are accepted at the Reception Desk, Room 100, Personnel Department, 505 Blandy. Ads close at 4:30 p.m. on Friday, one week after the announcement, unless otherwise specified. Applications received after 4:30 p.m. on the closing date will not be considered. The Naval Weapons Center is an Equal Opportunity Employer; selections are made without discrimination for any nonmerit reason.

No. 08-038, Interdisciplinary (Computer Specialist/Computer Systems Analyst/ Engineering Data Management Specialist/Quality Assurance Specialist), DS-334/301/1910-2/3, DP-334/301/1910-3, Code 08B1 — This position is located in the Standard Automated Financial System (STAFS) Project Management Office. The incumbent is configuration manager for STAFS and associated administrative automated information systems. He/she is responsible for the implementation and maintenance of STAFS CM plans and procedures for control of hardware, software and documentation. He/she will oversee the design, development, implementation, operation and maintenance of the STAFS CM data base using Softool CCC on a VAX computer. He/she is a voting member of the STAFS configuration change board and is responsible for the proper operation of the configuration change and control process. **Job Elements:** Knowledge of configuration management principles and practices; ability to use automated data base systems; and ability to communicate both verbally and in writing are desirable. Promotion potential to DP-3. Status eligible may apply.

No. 08-030, Accounting Technician, GS-525-4/5/6, Code 0861 — This position is located in the Billing Section of the General Accounting Branch. Incumbent will maintain a Fund Control Ledger using information contained on fund documents and automated reports to reflect amounts authorized by fund documents, costs incurred and billed against those authorizations and the available balance remaining on the fund source. Incumbent will be assigned a group of sponsors and customer orders as his/her share of the total workload which is occasionally redistributed to assure proper balance. Incumbent will be required to accomplish sponsor billings, perform necessary research to isolate and correct errors, prepare reports, reconcile, resolve problems, and perform other related assignments with the Branch. **Job Elements:** Knowledge of Navy Industrial Fund Accounting principles; ability to work accurately with figures; ability to work effectively with people. Promotion potential to GS-6.

No. 08-039, Accounting Technician, GS-525-4/5/6, Code 0861 — This position is located in the General Ledger Section of the

of the STAFS CM data base using Softool CCC on a VAX computer. He/she is a voting member of the STAFS configuration change board and is responsible for the proper operation of the configuration change and control process. He/she also serves as STAFS ADP system security officer. **Job Elements:** Knowledge of configuration management and ADP security principles and practices; skill in the design and use of automated data base systems; and ability to communicate both verbally and in writing are desirable. Promotion potential to DP-3. Status eligible may apply.

No. 09-52, Clerk-Typist, GS-322-4 or Personnel Clerk/Assistant, GS-203-4/5, Code 096/097, Multiple Vacancies — Performs the following duties for a major department(s): processes all actions effecting appointments, pay, separations, conversions of appointment, etc.; performs competitive and noncompetitive qualification ratings; performs ranking and may conduct ranking/selection panels; and drafts vacancy announcements for recruitment. At higher levels, incumbent advises and recommends to supervisors and managers, recruitment options for certain occupations (e.g. clerical); participates in various phases of crediting plan development which may include, but is not limited to, job analysis and establishing KSAs. **Elements:** Knowledge of personnel policies and procedures related to staffing. Ability: to plan, organize and accomplish work independently; to perform a variety of clerical/technical functions; to research, comprehend and apply complex regulatory information. Promotion potential to GS-7. Status eligible may apply.

No. 24-148, Firefighter, GS-081-5B, Code 242 — Supplemental Qualifications Statement Required. This announcement will be used to establish the promotion register for Firefighter, GS-5B, which will remain in effect until February 1986. Duties include driving and operating structural pumbers and any type crash fire trucks, responding

General Accounting Branch. Incumbent will perform a variety of duties in connection with the Navy Industrial Fund (NIF) Ledger maintenance and controls; assists in the maintenance of all NIF General Ledger accounts; separates vouchers by accounts and determines whether they are receipts or disbursements; reconciles subsidiary accounts with the General Ledgers; establishes cash controls between General Accounting and ADP for cash input; helps with preparation of monthly, quarterly, and yearly Financial Statements; prepares Reimbursable Orders to activities who are performing work for NWC; and performs other related assignments with the Branch. **Job Elements:** Knowledge of NIF and appropriation accounting systems; ability to work accurately with figures; ability to work effectively with people. Promotion potential to GS-6.

No. 09-53, Administrative Jr. Professional, DA-301-1, Code 092 — Incumbent will be sponsored by the Administrative Development Committee (ADC) and will take six-week tours in administrative functions such as budget, personnel, supply, and management analysis. The program is designed to identify and develop those with high potential for senior administrative and staff positions within the federal civil service. **Elements:** Knowledge: of management systems and theories of organization. Ability: to gather, compile, analyze information and data; to organize and present data in writing. Promotion potential to DP-3. Supplemental experience statement is required and may be picked up in Room 100 of the Personnel Department.

No. 09-49, Clerk (Typing), GS-303-4 or Employee Development Clerk (Typing), GS-203-4/5, Code 094 — Incumbent will provide assistance to an Employee Development Specialist in carrying out the academic employee development program, will provide information to employees and supervisors on training opportunities, enroll employees in classes, maintain fiscal records, arrange for classes, prepare reports, maintain records, and provide support for various staff personnel and instructors from the universities providing programs at NWC. **Elements:** Ability: to communicate effectively; to deal tactfully with all levels of personnel; to type; to organize and carry out a variety of duties with considerable flexibility. Status eligible may apply. Promotion potential to GS-5.

No. 09-52, Clerk-Typist, GS-322-4 or Personnel Clerk/Assistant, GS-203-4/5, Code 096/097, Multiple Vacancies — Performs the following duties for a major department(s): processes all actions effecting appointments, pay, separations, conversions of appointment, etc.; performs competitive and noncompetitive qualification ratings; performs ranking and may conduct ranking/selection panels; and drafts vacancy announcements for recruitment. At higher levels, incumbent advises and recommends to supervisors and managers, recruitment options for certain occupations (e.g. clerical); participates in various phases of crediting plan development which may include, but is not limited to, job analysis and establishing KSAs. **Elements:** Knowledge of personnel policies and procedures related to staffing. Ability: to plan, organize and accomplish work independently; to perform a variety of clerical/technical functions; to research, comprehend and apply complex regulatory information. Promotion potential to GS-7. Status eligible may apply.

No. 24-148, Firefighter, GS-081-5B, Code 242 — Supplemental Qualifications Statement Required. This announcement will be used to establish the promotion register for Firefighter, GS-5B, which will remain in effect until February 1986. Duties include driving and operating structural pumbers and any type crash fire trucks, responding

on ambulance calls as either driver or attendant, inspection of Center's building and property, and conducting training classes for trainee firefighters. **KSAs:** K — of locations (streets, water distribution, alarm/detection systems, building contents/layouts, etc.); of fire prevention practices with regard to building inspections and ability to identify fire hazards; of reference sources; of firefighting (fire, origin and techniques of extinguishing fires). A — to operate firefighting apparatus and equipment, structural pumbers, crash fire trucks, pumping systems, nozzles, rescue equipment; to drive (proper use of gears, clutch, brakes, etc. and demonstrated safe, smooth, effective operation of vehicles); to accept responsibility and carry out assignments with minimal supervision.

No. 25-079, Supply Systems Analyst, DA-2003-1/2, Code 25012 — The incumbent will provide administrative and technical advice,

analysis support, and contractor and user interface for the Information Systems Support Group in the Supply Department and will perform the following duties: provide liaison between contractor programmers and Supply operating divisions for the Inventory Management Procedures Systems (IMPS); assist with preparation of statement of work and Government costs estimate, and act as Technical Monitor for the IMPS delivery order; evaluate contractor performance; issue Specification Requirements to contractor for programs changes and duties not specifically spelled out in the delivery order. Substantial opportunity for growth in the use of microcomputers. **Elements:** knowledge of inventory management; DOD supply including the acquisition process, receipt of material, material turn-in, disposal of excess or defective material, and accounting for discrepant material; NAVSUP and NAVCOMP manuals and regulations; database management/information systems; technical monitor's responsibility. Ability to write statements of work. Promotion potential to DA-3. Status eligible may apply.

No. 25-078, Lead Purchasing Agent, GS-1105-6/7, Code 2522 — Responsible for providing training and guidance to Purchasing Agents in the section, and insuring that proper policies and procedures are utilized. Incumbent assists management in planning assignments, improving work flow and service rendered, promoting job satisfaction and increasing productivity. Incumbent functions as a contracting officer and ordering officer, is expected to be forward-thinking and service-oriented in exercising all responsibilities. **Elements:** Knowledge of DOD and NWC Small purchase policies and procedures; negotiation techniques; methods and requirement for price analysis. Ability: to deal effectively with personnel at all levels of work without close supervision; lead a work group. Skill in utilizing a computer terminal and management information system is desirable. Promotion potential to GS-7.

No. 26-187, Facilities Management Specialist, DA-1640-1/2/3, Code 2673 — Quality Control Branch, (Multiple vacancies). The incumbent is involved with the definition and application of quality assurance techniques for facility maintenance contracts. These include the specific disciplines of painting, paving and roofing as well as positions requiring multiple trades knowledge. The incumbent coordinates inspections and the acceptance of Warranty work. **Job Elements:** Knowledge of workflow utilized in Indefinite Quantity contract; General knowledge of trades practices for painting, paving, roofing, and multiple trades practices; ability to communicate effectively orally and in writing; ability to use blueprints, schematics, and architectural drawings; ability to plan, coordinate, and implement quality assurance plans relating to Indefinite

