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NWC Rocketeer

Naval Weapons Center, China Lake, California 93555-6001

Vol. XLIV, No. 31/August 4, 1989

Marines bring LAV-AD for performance test

China Lake's tradition of support for Navy and Marine weapons systems is being continued as the U.S. Marines from Twentynine Palms conduct a system performance test of the Light Armored Vehicle-Air Defense (LAV-AD) beginning next March.

To be a critical part of the Marine's ground combat strategy, the LAV-AD is 14 1/2 tons of armor on wheels. The newest member of the Light Armored Vehicle family, it has been on the drawing board since 1981 when the concept of eight mission role vehicles sharing a common chassis was developed.

"The LAV-AD is filling a critical gap," said Major Guy Barr, Executive Officer, Marine Aviation Detachment at the Naval Weapons Center. "Our ground

forces have been sorely lacking this air defense capability."

"The entire LAV family of vehicles is not replacing any fielded system; they are new capabilities," explained Lt. Col. Dick Craig, USMC (Ret.), a COMARCO employee assigned to this project. "They will make our ground forces much more mobile."

The LAV-AD has anti-aircraft mounts using Stingers (an infrared-guided missile). It carries the ground launched version of the 2.75" rocket launcher (Hydra-70), and a 25 mm gun system. Its weapon systems are being evaluated at NWC's ranges, while its automotive performance capabilities are being tested at Yuma Proving Grounds.

"NWC is providing the ranges, instrumentation, data collection

and analysis," said Craig. "A group in Code 64 is already fabricating the instrumentation package for the tests. The Aircraft Department is developing targets for the evaluation; the Range Department is preparing our needed range times and identifying spaces for maintenance. We've also asked the Ordnance and Systems Department to help us with ammo."

The testing at NWC is expected to last through three phases: one from March to September 1990; one in June and July 1991; and the last one from October 1991 to March 1992. During the tests, the LAV-AD will shoot at some drones (helicopters, fixed wing aircraft and remotely piloted vehicles) and undergo other weapons system testing. About 50 Marines from Twentynine

Palms will be assigned to China Lake during each testing phase; Craig expects approximately 60 civilians (government and contractor) to also be present during the phases.

The LAV-AD is being concurrently developed by two competing contractors: General Electric of Burlington, Vermont, and FMC, from San Jose, CA. Two vehicles from each contractor have been made and will be tested. The Marines expect to purchase 125 LAV-ADs if the purchase description requirements are met.

The 14 1/2 ton vehicle has been certified for NATO road use. "It can reach speeds of 55 mph and we expect the Marines to be driving it in and around NWC en route to test areas," said Craig. "Putting mileage on the

vehicles is one part of the test specifications. The visiting Marines will be looking at how well it drives throughout the testing."

While the LAV-AD is large, it is designed to be transportable by air. The C-130 Hercules can carry one; the C-141 Starlifter can carry two; and the C-5A Galaxy can transport five of the vehicles. "The CH-53 Echo helicopter is able to lift and relocate this strategic resource," added Craig.

The LAV-AD testing is being directed by the Light Armored Vehicle project office at Tank Automotive Command in Warren, Mich. and supported by the Light Armored Vehicle test directorate from the Marine Corps Air-Ground Combat Center (MCAGCC) from Twentynine Palms, Calif.



LAV-AD--Marine Corps testing of the air defense variant of the Light Armored Vehicle is expected to begin a China Lake in early 1990. Testing will be carried out in three phases at NWC over the next two years.

Carl Schaniel departure ends final link to the McLean era

Last department head hired by Sidewinder guru

Yesterday marked the last official work day for Carl Schaniel, head, Quality Review Group, as he concluded his Navy civilian career after 38 years. Hewas the last China Lake department head link to Bill McLean, the Center's third technical director.

Beginning his government service as a physicist with the Navy Electronics Laboratory (now known as Naval Ocean Systems Center), he moved to China Lake in 1962 with the Weapons Planning Group.

He was honored by fellow China Lakers at a special retirement party held last Friday. The recipient of the Navy Superior Civilian Service Award and many plaques of appreciation at the party, he is retiring at the end of "a career filled with accomplishments."

"I've been moving at a high rate of speed for many years, so I plan to let my motor slow down with a lot of fishing," said Schaniel when asked about his retirement plans. He also plans to attend to some jobs around his home which have gone neglected during the past busy career years, continue his square-dancing hobby and do some "recreational" traveling.

He and his wife, Willa, could make a lengthy itinerary by touring the country to visit their six children: Bill, who resides in Georgia; Mary in Texas; Steve in San Francisco; Judy in Los Angeles; Peggy in (Continued on Page 9)

NWC change of command planned Monday

Captain John Burt retires following 24-year year Naval career and Capt. Douglas W. Cook takes charge of China Lake at 9 a.m.

Captain Douglas W. Cook will assume command of the Naval Weapons Center on Monday, Aug. 7 following a change of command ceremony at 9 a.m. He relieves Capt. John Burt who is retiring from the Navy after 24 years on active duty.

This ceremony will take place on the front lawn of the NWC Headquarters Building. Cake and punch will be served following the change of command and

retirement.

The new NWC Commander comes to this assignment from duty as executive assistant to the Commander, Space and Naval Warfare Systems Command.

Hailing from Ft. Lauderdale, Florida, he graduated from the Georgia Institute of Technology with a degree in industrial management. He earned his Navy commission from the Naval Reserve Officer

Training Corps program.

His initial flying assignment was with Air Transport Squadron 22 (VR-22) at NAS Moffett Field, California. In November 1966, he reported to Reconnaissance Attack Squadron Three (RVAH-3) in Sanford, Florida, for RA-5C transition training and subsequent assignment to RVAH-6 making combat deployments to Southeast Asia aboard *USS Ranger* (CVA-

61) and *USS Enterprise* (CVAN-65).

Captain Cook's awards include the Legion of Merit (Gold Star in lieu of second award), Defense Meritorious Service Medal, Air Medal (5 Strike Flight awards), Navy Commendation Medal (Combat Distinguishing service and Gold Star in lieu of second award), and the Navy Achievement Medal, as well as Unit Awards and Campaign Ribbons.

China Lakers salute Capt. Burt



TEAMWORK--Phil Arnold (right) head of the Weapons Planning Group, presents Capt. John Burt with a painting symbolic of his leadership during the Naval Weapons Center's realignment during the past two years.

Honored by "old friends who want to say goodbye," Capt. John Burt presided over his last Commander's meeting as the Commander of the Naval Weapons Center on Monday. Capt. Paul Valovich, NWC

vice-commander, acted as master of ceremonies as the Center's 23rd Skipper was presented with mementoes of his tour of duty by the department heads. Col. Barry Banks, CO, Marine Aviation Detachment and

First Sergeant Vigil made the first presentation to Capt. Burt. The Skipper's wife, Mary, and daughter, Katie, were on hand to view the proceedings.

Phil Arnold, head of the Weapons Planning Group told Capt. Burt, "I think your accomplishments were absolutely superb," as he presented the Code 30 plaque.

Head of the Range Department, Dick Boyd, said that Code 62 had been "really appreciative of your knowledge and understanding."

"The legacy of a leader," commented Matt Anderson of the Ordnance Systems Department, "is leaving a place better than he found it; and you've done that here."

During the salute to Capt. Burt, Capt. Gene Allen, head of the Aircraft Department, presented a plaque showing the major aviation safety awards NWC had earned during the Skipper's tenure. Capt. Burt presented Capt. Allen with yet another major safety award, this on in recognition of 2 million man hours without a lost-time accident in the department.

"It has been a marvelous three years," said Capt. Burt following the presentations. "I've been privileged to be your leader. . . you've taught me a great deal."



SPECIAL GIFT--LCdr. Richard Titi, of the NWC Branch Medical Clinic, makes certain Capt. Burt will long remember the efforts to secure better CHAMPUS reimbursement for ambulance trips in remote locations such as China Lake. LCdr. Titi also thanked Mary Burt for her work with NRS on this issue.



CAKE CUTTING--Capt. and Mary Burt cut the cake at the Commander's Meeting farewell. Photos by PHAN Cary Brady



MARINES-- Col. Brarry Banks and First Sgt. Vigil, present the MAD plaque to Capt. John Burt.

NWC Rocketeer

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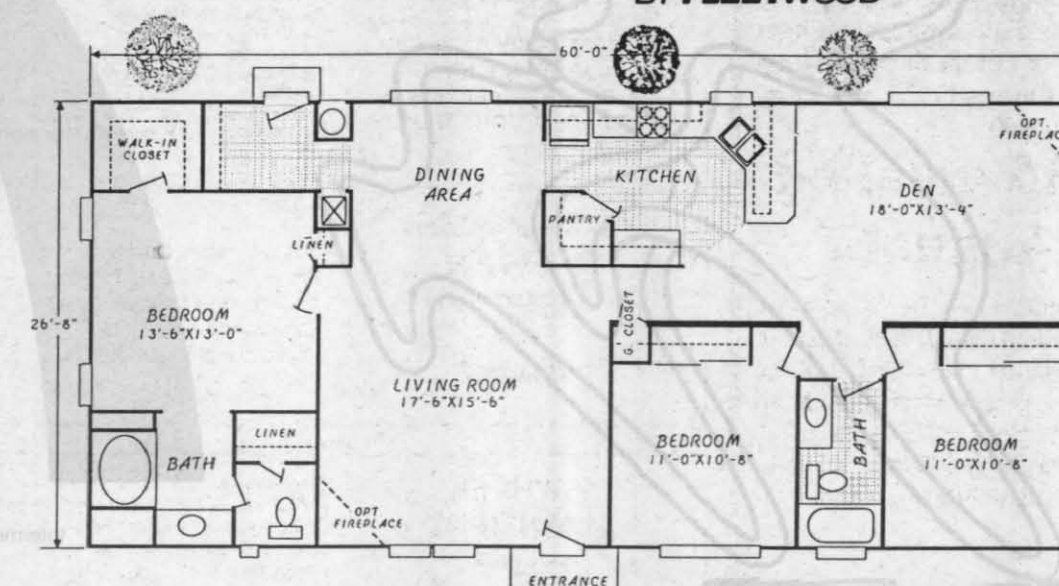
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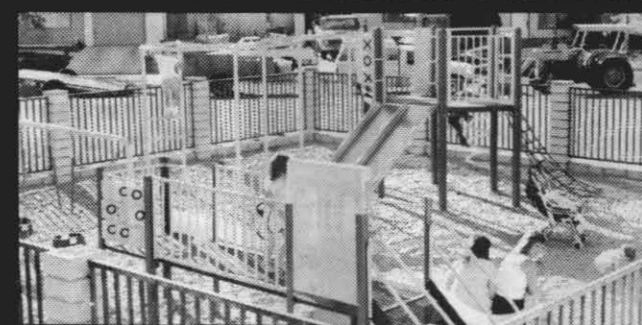
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Museum teaches docents

This fall, the Maturango Museum will conduct a formal training program for new docents (teachers). Training, which is offered only at two-year intervals, will commence with an orientation meeting from 9 to 11:30 a.m. on Tuesday, Sept. 5, at the Maturango Museum.

Docents are volunteer teachers for the museum. They provide both general tours of the museum and its displays, and an outreach program at schools or local meeting places.

The Docent Training Program offers a unique opportunity to learn more about this fascinating area in which we live by presenting a variety of subjects for study: INDIANS--The Panamint Shoshone, survival, crafts and basketry demonstration; DESERT ALIVE--what kinds of animals and plants survive in this environment and how; PETROGLYPHS--the rock drawings of the Coso Range; HISTORY OF THE INDIAN WELLS VALLEY and much, much more.

The only qualification necessary to become a Docent with the Maturango Museum is a willingness to share excitement and knowledge with others. Please contact Julie Troutman at 446-7023, or call the museum, weekdays, between 10 a.m. and 5 p.m. at 375-6900.

FRA meeting is August 7

Members of the China Lake chapter of the Fleet Reserve Association are reminded of the August general meeting on Monday, August 7, at 7:30 p.m. at 812 Entwistle. For further information, call Bob Schwaiger at 375-6839.



	Max	Min	Gusts
Thurs.	107	70	22 knots
Fri.	107	72	20 knots
Sat.	107	67	23 knots
Sun.	108	70	25 knots
Mon.	105	73	25 knots
Tues.	104	62	25 knots
Wed.	103	63	25 knots

Community Events

Bogidar Avramov will conduct the Eastern Sierra Symphony Orchestra in its final concert of the 1989 season on Sunday, August 13, at the NWC theater at 4 p.m.

Kathryn Davis-Krzycki will instruct two watercolor painting workshops from August 14-17 at the Maturango Museum. Minimum age is 8. The classes will meet from 9-11 a.m. or from 12:30-2:30 p.m. The fee is \$30, all supplies included. For more information call Mary Lundstrom, 375-7141.

Western Daze will be the theme for an event at the Desert Empire Fairgrounds on Sat., Aug. 26. A chili cook-off, games and contest will highlight the day. For more information, call Janice at 375-1003.

What a treat is in store Tuesday, Aug. 8, at 7:30 p.m. at the Maturango Museum for desert lore lovers. Mr. L.E. August will be here to tell tales told to him by his grandfather who knew Indians and was a personal friend of Death Valley Scotty.

On Sunday, Aug. 21, the Bakersfield Symphony Orchestra will present its first "Summer Pops" Concert of the season at 8 p.m. in the Bakersfield College Outdoor Theater.

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Register now for trip

The annual overnight camping trip to the bristlecone pines is planned for Aug. 26-27 by the Maturango Museum. The bristlecone pines grow from the White Mountains, a range of ancient rocks on the eastern side of Owens Valley, all the way to Wheeler Peak in eastern Nevada. Some of these venerable trees are more than 4,000 years old, and one tree, named "Methuselah" is more than 4,600 years old.

Most of the trees are located at altitudes of 9,000 to 11,000 feet. They are stubby, warped, twisted as few other trees are. While small compared to the giant Sequoias, they are half again as old. Because of their warped growth and many centuries of wind and ice sculpting, they are photogenic marvels.

On Saturday, August 26, meet at the parking lot of the museum at 8 a.m. The group will caravan to the bristlecone area east of Big Pine.

On Saturday, the group will visit the Schulman Grove, where visitors will find many photographic opportunities and a hike of one or four miles. Campers may camp Saturday night at the group campground at Cedar Flat and enjoy the campfire. Cedar Flat is a dry campground, so campers need their own water. Motel accommodations are also available in Big Pine.

On Sunday, August 27, the group will go on past to the Patriarch Grove where the scraggly, but very photogenic trees are. This dirt road goes to 11,000 feet, so be sure your car is in good working order.

On the trip home, visitors can stop at points of interest, like the museum at Independence. Call the museum at 375-6900 for reservations.

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Hard work brings honors to NWC's leading sailor

Two years of hard work at China Lake paid off for AE2 Charles Peal as he was named NWC's Sailor of the Quarter for second quarter of 1989.

Peal enjoys his occupation as an aircraft electrician in the Aircraft Department, servicing instrumentation on A-6, A-7, F/A-18 and UH-1 aircraft. "I joined the Navy at age 17, uncertain of a career," he said. "Then I started working on aircraft and found something that I was really good at--being an aircraft electrician."

Peal commented favorably on the work environment here. "There's a good relationship among workcenters in the department," he said. The instrumentation he services connects to every part of the aircraft, making it necessary to interface with jet mechanics and structural mechanics. Peal considers that a benefit. "I get to work on the integrated system rather than just one specific item."

He especially likes maintaining 'older' planes. "The A-7 is the first aircraft I worked on. The elec-

trical system isn't as sleekly packaged as the F/A-18's, but I prefer the challenge," noted Peal. "I know that aircraft inside-out."

The industry trend toward avionics has him contemplating a degree in electronics engineering and a career change to aircraft flight engineer. Already he has 32 credits to his name for courses in electronics.

In his remaining time at China Lake, one event he's looking forward to is marrying Susan Trevino, a Code 39 employee and childhood sweetheart from Tracy, Calif.

"Your determination, enthusiasm, outstanding performance, and unfailing dedication to duty have placed you well above your contemporaries," noted his selection letter, signed by Capt. Robert Dropp, commanding officer of enlisted personnel.

Peal, the Center's second quarter's Sailor of the Quarter, gratefully acknowledged, "It takes a good team in the workcenter to make an individual stand out."



TOP SAILOR--AE2 Charles Peal enjoys working on the Naval Weapons Center's A-7E Corsairs.

DoD and precursor hit their bicentennial peak

WASHINGTON (NNS)--"There shall be an executive department to be denominated the Department of War, and that there shall be a principal officer therein, to be called the Secretary for the Department of War, who shall perform such duties...entrusted to him by the president...agreeably to the constitution, relative to military commission, or to the land or naval forces, ships, warlike stores of the United States, or to other such matters respecting military or naval affairs."

These words were written 200 years ago, on August 7, 1789, by the First Congress, and thereby created the precursor to the Department of Defense. This Bicentennial marks the special tradition of two hundred years of civilian control over the military and the introduction of a professional civilian work force into the department.

Reserves ready for commander to take position at NWC 0276

Capt. Thomas Morgenfeld, commanding officer of NWC Reserve Unit 0276 will be relieved of command by Capt. Sam Alonge in a change of command ceremony at 9 a.m. tomorrow at NWC.

Naval Reserve Naval Weapons Center 0276 is sponsored by the Naval Air Systems Command (NAVAIR) and administered by the Naval Air Reserve Point Mugu. The unit was originally established as Weapons Support Unit 0776 in October 1978. It was redesignated as NWC 0276 in October 1979.

Capt. Alonge was designated a Naval flight officer and commissioned an ensign in the Navy in February 1966. After completing basic NFO school at NAS Pensacola, Florida, he attended ECM/ESM and radar intercept officers schools at NAS Blynco, Georgia.

Between 1975 and 1978, he served with China Lake 0276, from 1978 to 1986 with China Lake Reserve Unit 0176 and in 1987 with VTU 0666. In 1987 he joined his last unit before NWC 0276, VTU 0276 where he has been commanding officer since 1988.

Captain Alonge is currently an employee of Delex Systems, Inc. and lives in Ridgecrest with his wife Lorraine.



The Skipper Sez...

QUESTION

My problem is with the base telephone directory. The last edition of the directory is dated Sept. 2 1987. It has, due to realignment, personnel changes, new hires, transfers, retirements, and promotions, become almost impossible to look up a person's telephone number. If you know the person's code you may have some luck by calling the department office. Calling the base operator does not help as she only has access to the same information we have.

The solution was to have been a telephone directory on the base-wide VAX computer system, but this, once implemented, has never been updated, and is now worse than the printed directory.

With the amount of movement in both the technical and military communities on station; I believe that it is vitally necessary to have an up-to-date telephone listing; both hard copy and electronic.

ANSWER

We agree that a revised edition of the Center Telephone directory was long overdue. A new directory was scheduled to be released last summer; however, because of the massive Center reorganization, it was decided to wait until the dust had settled before publishing a new directory. The good news is that the new directory has been distributed.

In the meantime, every effort has been made to keep the directory data base as up-to-date as possible. Changes are incorporated as they are received, usually within a day or so. We also utilize various documents such as the Blue Sheet, personnel action reports, and military rosters as sources of information. But, most importantly, we must rely on individuals to provide us with changes to the directory. These changes can be made by submitting a Directory/Locator Information Card (NWC Form 2060/7) to the Telephone Services Branch (Code 2714) or by sending an E-mail message to "SCF:PHONEDIR".

QUESTION

Capt. Burt, I am a civilian employee, and my husband and I are civilian employees living in base quarters. We have the privilege of using the stall area to board our two horses and are very appreciative. In talking with other boarders, we've found a common complaint. We'd like to know if there is any solution. I'd also like to make it clear that Carol Hape has done everything in her power to help. The problem is unauthorized personnel in the stall area. This is adults and children both, some of which are unaccompanied. Many times we've gone up and found children in with our horses, people feeding our horses or throwing rocks at them, and when something is said to these people the normal response is that "this is the closest thing to a zoo that Ridgecrest has," or "What are you going to do about it?" My question is, what can be done about it? Someone is going to get hurt, either a horse, or even worse, a child. We would appreciate any help in solving this problem.

ANSWER

All of the horses quartered at the stables are privately owned and cared for by eligible tenants. Recently there has been an influx of visitors to the stables which is causing concern among the tenants for the safety of the visitors and the welfare of the animals.

Incidents of rocks, bottles, cans, and debris being thrown into the stalls and at the horses have been reported as well as unauthorized feeding of the animals. Furthermore, young children of unauthorized guests have been allowed in and around the stalls. These occurrences are cause for alarm because horses are dangerous and unpredictable.

The center stables and individual stalls are areas considered closed to the public and visitors are not encouraged.

Tenant identification cards have been issued and signs will be posted at the stables restricting visitors from entering the immediate and surrounding areas. At that time, the China Lake Police will be called for the removal of unauthorized visitors.

All China Lakers, including military personnel, civilian employees and their dependents, are invited to submit questions to this column. Such queries must be in good taste and pertain to matters of interest to a large segment of the China Lake community. Answers to these questions are directly from Capt. John Burt. Please call NWC ext. 2727 with your question and state whether you are a military member, civilian employee or dependent. No other identification is necessary. Since only three or four questions can be answered in the Rocketeer each week, anyone who would like to ensure getting an answer to a question may leave their name and phone number for a direct contact, but otherwise, this is not required. There is no intent that this column be used to subvert normal, established chain-of-command channels.

Craftech Center set for classes this fall

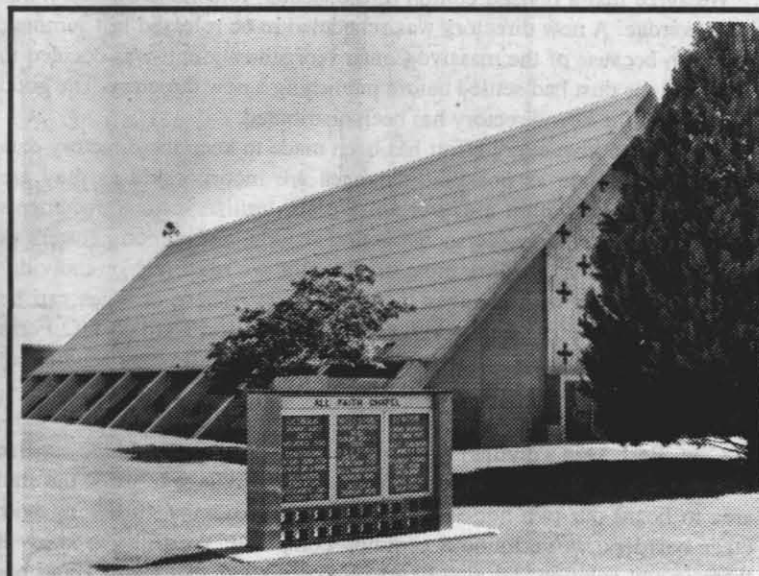
New hours have been announced for the Naval Weapons Center's Craftech Center. Effective immediately, the Center will be open from 10 a.m. to 9 p.m., Monday through Friday; and 10 a.m. to 4 p.m., Saturday. The Craftech Center, operated by the Morale, Welfare and Recreation Division of Human Resources Department, is closed Sundays.

Classes in ceramics, woodworking, doll making and oil painting are planned for September. For more information on these classes, keep watching the *Rocketeer*.

Due to clean up and reorganization efforts, the Craftech Center will be closed on Saturday, Aug. 12. Regular operating hours will resume on Monday, Aug. 14.

NEX station's new hours

New hours of operation of the Navy Exchange have been announced by NEX management. In addition to the regular schedule, the NEX gas station will be open on Sundays between the hours of 10 a.m. and 3 p.m.



Divine Services

Protestant

Sunday Worship Service, Main Chapel 10:30 a.m.
 Sunday School, Annexes 1, 2 & 4 9:00 a.m.
 Bible Study (East Wing), Wednesday 11:30 a.m.
 (September thru June)
 Men's Prayer Breakfast, East Wing, Thursday 6:15 a.m.
 Officers' Christian Fellowship/Christian Military Fellowships, Annex 4, Thursday 7:00 p.m.

Islamic

Jumaa Prayer (Friday in Annex 4) 1:00 p.m.

Roman Catholic

Sunday Mass, Main Chapel 9:00 a.m.
 Daily Mass, Small Chapel 11:35 a.m.
 Confession (Sunday), Command Chaplain's Office 8:15-8:45 a.m.
 Confession By Appointment Anytime
 Religious Education Classes (Sunday) (September thru May), Annexes 1, 2 & 4 10:30 a.m.

Jewish

Weekly Services (Friday - East Wing) 7:30 p.m.
 Adult Hebrew Lessons (Saturday in Annex 4) 9:00-10:00 a.m.
 Sabbath School (Saturday in Annex 4) 1:00-4:00 p.m.

Chaplain S. A. Casimiro, LCDR, CHC, USN
 Chaplain G. L. Goodman, LT, CHC, USNR
 Chaplain G. E. Williams, LT, CHC, USNR
 Hearing Impaired Equipment, Nursery Available
 Phone NWC ext. 3506, 2773, 2873



"Taking A Stand"

There comes a time in each person's life when he or she must take a stand for what is right. Such a stand may mean to a person the loss of personal comfort, security and peace. But the person of courage and character will take his or her stand for right in spite of the loss of these personal benefits.

The world has many moral and ethical people. These are people who have been taught what is right by religion. They have internalized religious teachings in their hearts. Yet they live in a world where there is corruption, greed and injustice. Unfortunately, there are people who make decisions based on greed. There are people whose decisions contribute to corruption and injustice.

Evil is a problem. It is one which has troubled moral and ethical people through the centuries. Theologians and philosophers have written volumes of books on the existence of evil.

But the problem for each person is what will he or she do about evil. This is one with which we all have to grapple. And we each have to decide if we will or will not take a stand for what is right.

To be sure, we all value the status which we have attained as a result of hard work. We have every right to do so. We should be proud of what we have accomplished. What is the point of pursuing excellence, if we are not to feel pride in our achievement of it?

But at what price are we to value our achieved status? Are we willing to hold on to our status and

not take a stand for what is right? Are we willing to maintain our status and lose our souls? "What good is it for a man to gain the whole world, yet forfeit his soul? Or what can a man give in exchange for his soul?" (Mark 8:36, 37 NIV).

In life we face situations in which we must choose between right and wrong. When these situations arise, we can try to avoid taking a stand. If we avoid taking the stand which morality and ethics dictate that we take then we, in the process, are actually supporting evil. We tragically forfeit our souls when we give over to the support of evil.

The late president Franklin D. Roosevelt once said that he would rather err on the side of compassion. When we take a stand for right, we certainly can err. Standing for what is right does not prevent us from erring. But to fail to take stand for right either because of the lack of will or because we have taken a stand for wrong is the greatest error.

A ruling elder in a church on whose staff I served as assistant pastor once said to me: "Mr. Williams, it doesn't matter who's right, but what's right." I learned from this very wise man that right justifies itself. It matters not that anyone stands up for it, right is right.

What is right that we may stand for? I believe that Jesus Christ defined what is right. He taught His disciples to feed the hungry, give a drink of water to the thirsty, invite the stranger in, clothe the naked, look after the sick and visit the prisoner. Doing these needs is

taking a stand.

"Once to every man and nation

Comes the moment to decide,
 In the strife of truth with falsehood,

For the good or evil side;
 Some great cause, some new decision,

Offering each the bloom or blight,
 And the choice goes by forever

"Twixt that darkness and that light.

Then to side with truth is noble,

When we share her wretched crust,

Ere her cause bring fame and profit,

And 'tis prosperous to be just;
 Then it is the brave man chooses

While the coward stand aside,
 Till the multitude make virtue
 Of the faith they had denied.

Though the cause of evil prosper,

Yet 'tis truth alone is strong;
 Though her portion be the scaffold,

And upon the throne be wrong,

Yet that scaffold sways the future,

And, behind the dim unknown,
 Standeth God within the shadow

Keeping watch above His own."

From a poem entitled "Once To Every Man and Nation," by James Russell Lowell, 1845.

By Lt. G.E. Williams, CHC-USNR

Airfield Chaplain

ANOTHER TRIO OF NAVY SERVICE--CWO4 Ed Scott, VX-5, congratulates AO2 Brian G. Nation after his reenlistment ceremony. Nation signed on for three more years on July 14. PR3 Guy Stanley, also of VX-5, reenlisted for six more years on July 17 (photo unavailable). Photo by PH3 Rob Foster.



CSUN classes...

(Continued from Page 16)

Master's Degree Program in Systems Engineering.

ME 590A: Advanced Topics in Fluid Dynamics-Inviscid Flow (3 units)

Sept. 7-Dec. 21; Thursdays, 1610-1910; Training Center. By Dr. Gutmar, NWC ext. 3745.

Prerequisite: ME 490: Fluid Dynamics or equivalent or consent of instructor.

Scope: Application of analytical and numerical techniques to the solution of inviscid flow problems. Topics include incompressible and compressible flow, one-dimensional and multi-dimensional steady flows, one-dimensional unsteady flows, small perturbation theory and the method of characteristics. Emphasis on aerospace and energy related applications.

Text: *Gas Dynamics*, Vol. 1, M.J. Zucrow and J.P. Hoffman. John Wiley, latest edition.

CE 436: Structures II (4 units)

Sept. 5-Dec. 19; Tuesdays, 1610-1910; Training Center. There will be a lab on Wednesdays, Sept. 6 and 13 from 0900 to 1200 at the Training Center, with additional lab times arranged with the students as needed on Tuesdays after 1910. By Professor Gadamski, CSUN, (818) 855-2166.

Scope: Study of structural analysis and design problems using matrix methods. Complete development of the flexibility and stiffness methods of analysis. computer applications to structural analysis and design. Three hours of lecture and three hours of laboratory per week.

Text: *Structural Analysis*, Sack, McGraw-Hill, latest edition.

ME 501A: Seminar in Engineering Analysis (3 units)

Sept. 8-Dec. 18; Mondays and Fridays, 1610-1740; Training Center. By Dr. Rockwell, NWC, ext. 4802.

Scope: Investigation of mathematical techniques for the solution of engineering problems. Topics include Fourier's series and integrals, Laplace and other linear transforms, partial differential equations, Bessel functions and matrix theory.

Text: *Advanced Engineering Mathematics*, Wyle and Barret, fifth edition.

Note: This is a core course for the master's degree programs in electrical engineering, mechanical engineering, and applied mechanics through CSUN.

Math 477: Numerical Analysis (5 quarter units)

Sept. 13-Nov. 15; Wednesdays, 1610-2110; Training Center. By Professor Mohamed, CSUB, (805) 664-2130.

Prerequisite: Calculus III or consent of instructor.

Scope: Number representation and basic concepts of error; numerical solutions of nonlinear equations and systems of equations; interpolation and extrapolation; numerical differentiation and integration; numerical solution of ordinary differential equations; approximation by spline functions.

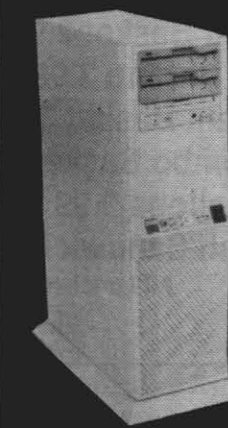
Note: This is a core course in the math/science option for the bachelor's degree program in computer science through CSUN. This is a prerequisite course for ME 592: Computational Fluid Dynamics to be offered Spring 1990. This is a foundation course for the mechanical engineering and applied mechanics master's degree programs through CSUN.

Dr. Madrigal visits NWC

Dr. Orlando Madrigal of Cal State University Chico will be on Center Aug. 18 to advise current and prospective students in the external degree programs offered by the school.

Those who wish to see Dr. Madrigal are asked to make an appointment by telephoning Helen Benese at NWC ext. 2648.

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NWC offers training classes

Security Coordinators Training (24 hours)

Sept. 12-14, 0800-1600, Training Center. By John Hammonds.

Intended Audience: Security coordinators and alternates and employees who anticipate performing duties as security coordinators.

Scope: This class will provide a working knowledge of classification management, downgrading, declassification, marking, access, control, dissemination, transmission, accountability, storage, destruction, custody control point procedures, security violations, security education, operations security, communications security and computer security.

Note: Enrollment Form 12410/73 is required.

Deadline: Aug. 31.

New Employee Orientation (6 hours)

Sept. 1, 0800-1430, Training Center. By NWC staff.

Intended Audience: New employees.

Scope: The orientation includes a "Welcome Aboard" and Center overview, and presentations on training opportunities, safety, the Employee Assistance Program, personnel benefits and systems, Police and Fire divisions, desert geology, the Technical Information Department, equal employment opportunity, NWC and area recreation and internal review. Department offices should contact you about attending.

Deadline: Aug. 22.

Additional annual leave hours are required

Employees indicated below have been approved to become leave recipients under the Leave Transfer Program. For more information about this program, call NWC ext. 2018.

John Hamilton, a former NWC employee (1965-1981) now employed by the Defense Logistics Agency -- is undergoing treatment for liver cancer.

Jeanne Sizemore, Secretary, Code 344 -- is recovering from a hip and pelvic injury.

Brian D. Peterson, Industrial Engineer, Code 3294 -- is recovering from a severe head injury.

Cheryl Clark, Secretary, Code 3686 -- is undergoing medical treatment.

Mike Mason, Mechanical Engineering Technician, Code 3526 -- is receiving chemotherapy treatments.

Michael Phillips, Student Trainee (Computer Scientist), Code 2803 -- has had repeated surgeries for recurring tumors of the knee.

Melody R. Raymond, Budget Analyst, Code 2836 -- had surgery and is indebted for leave.

Robert R. Huntley, Program Manager, Code 35A1 -- has had

a spinal fusion and neural surgery on his right arm.

Robert Donsbach, Specification Writer/Editor, Code 3656 -- suffered a heart attack and is indebted for leave.

Joan A. Johnson, Secretary, Code 3592 -- needs annual leave to care for her husband, who is being treated for cancer.

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Local Fall schedules announced

Under contract CSUB

This Fall, Cal-State University, Bakersfield (CSUB), is offering the following classes for their Bachelor's Degree in Business Administration and Master's Degree in Administration programs. To enroll in these classes, submit an on-Center Training Request and Authorization Form (NAVWPNCEN 12410/73) via department channels to Code 224. Registration will be held at the first class meeting. *Deadline for enrolling is 10 calendar days before the starting date of the class.*

FIN 300: Financial Management (5 quarter units)

Sept. 21-Nov. 30; Thursdays, 1610-2110; Training Center. By Professor Shakoori, CSUB (805) 664-2158.

Scope: Theory of financing the business firm under uncertainty. The supply and demand for capital, asset management, capital structure analysis, cost of capital, and capital budgeting decisions. Statistical and financial analysis of problem sets also included as well as computer applications.

Note: This is a core course for the Bachelor's Degree Program in Business Administration through CSUB.

ADM 690: Seminar in Administration (5 quarter units)

Sept. 21-Nov. 30; Thursdays, 1610-2110; Training Center. By Professor Paris, CSUB, (805) 664-2158.

Scope: This course is designed to integrate concepts and techniques for the core courses within a broader framework. Designed to sharpen analytical and communication skills. Course requirements include program culminating activity for the Master's Degree.

Note: This is a core course for the Master's Degree Program in Administration through CSUB.

MATH 477: Numerical Analysis (5 quarter units)

Sept. 13-Nov. 15; Wednesdays, 1610-2110; Training Center. By Professor Mohamed Ex-Ansory, CSUB, (805) 664-2130.

Prerequisite: Calculus III or consent of instructor.

Scope: Number representation and basic concepts of error; numerical solutions of nonlinear equations and systems of equations; interpolation and extrapolation; numerical differentiation and integration; numerical solution of ordinary differential equations; approximation by spline functions.

Note: This is a core course in the math/science option for the Bachelor's Degree Program in Computer Science through CSUC. This is a prerequisite course for ME 592: Computational Fluid Dynamics to be offered Spring 1990. This is a foundation course for the mechanical

engineering and applied mechanics Master's Degree programs through CSUN.

For more information on tuition reimbursement procedures or academic programs, please call Cecil Webb at NWC ext. 2648.

Not under contract CSUB

Following are courses being offered locally by CSU, Bakersfield. While the following courses relate to the CSUB Business Administration and Administration programs locally, they are not covered by the contract with the Naval Weapons Center. To pre-enroll in either of the courses below, please contact the Office of Extended Studies, CSU, Bakersfield, 9001 Stockdale Highway, Bakersfield, CA 93311-1099 (telephone 805-644-2441). Registration will be held the first day of class. Students must bring a check for \$300 (for 5-unit course) made payable to CSUB to submit to the instructor the first day of class.

Spanish 320: Hispanic-American Culture and Civilization (5 quarter units)

Sept. 18-Nov. 27; Mondays, 1610-2110; Burroughs High School By Professor Reyna, CSUB, (805) 664-2359.

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. Course given in English.

Note: This course satisfies General Education Goal VIII for CSUB Bachelor's Degree students. This course satisfies the ethnic studies requirement for CSU, Chico Bachelor's Degree students.

ADM 577: Administrative Law (5 quarter units)

Sept. 18-Nov. 27; Mondays, 1610-2110; Training Center. By staff.

Scope: This course surveys the concept of administrative law and government regulation, the functions of administrative agencies, and the legal aspects of the process by which such agencies carry out their policies and functions. It reviews the evolution of administrative authority and the Administrative Procedures Act, and it examines the subjects of rule-making, enforcement, adjudication, judicial review, due process, notice and hearings.

Note: This course satisfies an elective requirement for the CSUB Master's Program in Administration.

Note: Civil service employees of the Center taking one of the courses above and who expect to obtain tuition reimbursement, must submit via department channels to Code 224 prior to registration a DD Form 1556 (Off-Center Training Request) with a job order number supplied by their

department and an "objective" statement explaining how the course is related to their current job or probable future job. For more information on tuition reimbursement procedures, call Cecil Webb at NWC ext. 2648.

CSUC

The following classes are being offered this fall for the Cal-State University, Chico's (CSUC) Computer Science Program (bachelor's and master's degrees). To enroll in these classes, submit an on-Center Training Request and Authorization Form (NAVWPNCEN 12410/73) via department channels to Code 224. Registration will be held in class on the first meeting. *Deadline for enrolling is 10 calendar days before the starting date of the class.*

CSCI 151: Algorithms and Data Structures (3 units)

Sept. 2-3, Sept. 23-24, Oct. 28-29, Nov. 18-19, Saturdays and Sundays, 1800-1600; Training Center. By CSUC staff.

Prerequisite: CS 16: Pascal or equivalent or consent of instructor.

Scope: The representation, application, and processing of a wide range of data structures, including lists, trees, and graphs. The analysis of algorithms. Recursive and iterative techniques for problem-solving.

Text: *Data Structures and Programming Design*, Druse. Prentice-Hall.

Note: This is a core course for the bachelor's degree program in computer science through Cal-State, Chico. This is a foundation course for the master's degree program in computer science.

CSCI 397C-3: Seminar in Advanced Computer Graphics (3 units)

Aug. 29-Dec. 21; Tuesdays and Thursdays, 1400-1515; Training Center. By Professor James Murphy, CSUC, (916) 895-4022.

Prerequisite: CSCI 231: Computer Graphics or equivalent or consent of instructor.

Scope: A treatment of advanced topics in computer graphics as presented in recently published journals with emphasis on rendering three-dimensional scenes on raster displays and antialiasing, hidden surface removal, texture mapping, and realistic illumination models.

Text: *IEEE Tutorial: Computer Graphics: Image Synthesis*, Kenneth Joy, Charles Grant, Nelson Max and Lansing Hatfield. The Computer Society, 1988.

CSCI 227: Discrete Simulation Systems (3 units)

Aug. 29-Dec. 21; Tuesdays and Thursdays, 1100-1215; Training Center. By Professor Ralph Huntsinger, CSUC, (916) 895-5740.

Prerequisite: CSCI 151: Algorithms and Data Structures or equivalent or consent of instructor.

Scope: Principles of system

modeling, simulation models and languages, discrete systems, industrial dynamics, use of probability concepts, queuing patterns, and case studies.

Text: *Simulation of Waiting-Line Systems*, S. Solomon. Prentice-Hall, 1983.

CSCI 371: Comparative Advanced System Design Architecture (3 units)

Sept. 16-17, Oct. 14-15, Nov. 4-5; Saturdays and Sundays, 0800-1600; Training Center. By Professor Cormovick, CSUC, (916) 895-4022.

Prerequisite: CSCI 270: Systems Design or equivalent or consent of instructor.

Scope: An introduction to advanced system architectures, to include parallel processing, memory and I/Q sub-systems, supercomputing, pipelines, vector and array processing, data flow machines, and VLSI computations. System design problems and candidate applications are examined for design conditions.

Text: *Computer Architecture and Parallel Processing*. McGraw-Hill, 1984.

CSCI 278: Computer Networks (3 units)

Oct. 30-Nov. 1, Dec. 2-3, Dec. 16-17; Saturdays and Sundays, 0800-1600; Training Center. By Professor Seung Bae Im, CSUC, (916) 895-4022.

Prerequisite: CSCI 152: Operating Systems Programming or CSCI 153: System Software and CSCI 172: Systems Architecture or equivalent or consent of instructor.

Scope: Covers the concepts, vocabulary, design issues and techniques currently used in the area of computer networks. Topics include history and evolution, transmission media, interconnection topology, control methods, protocols, types of nodes, network interfaces, performance analysis, diagnosis and maintenance, taxonomy, bridges and gateways. Case studies of existing state-of-the-art networks are included.

Text: *Data and Computer Communications*, Stallings. Macmillan, second edition.

Math 477: Numerical Analysis (5 quarter units)

Sept. 13-Nov. 15; Wednesdays, 1610-2110; Training Center. By Professor Mohamed Ex-Ansory, CSUB, (805) 664-2130.

Prerequisite: Calculus III or consent of instructor.

Scope: Number representation and basic concepts of error; numerical solutions of nonlinear equations and systems of equations; interpolation and extrapolation; numerical differentiation and integration; numerical solution of ordinary differential equations; approximation by spline functions.

Note: This is a core course in the math/science option for the bachelor's degree program in computer science through CSUC. This is a prerequisite course for ME 592:

Computational Fluid Dynamics to be offered Spring 1990. This is a foundation course for the mechanical

Computational Fluid Dynamics to be offered Spring, 1990. This is a foundation course for the mechanical engineering and applied mechanics master's degree programs through CSUN.

For more information about any of these programs or classes, contact Cecil Webb at NWC ext. 2648.

CSUN

The following classes are being offered this Fall for the Cal-State University, Northridge (CSUN), Engineering Program (Master's Degree). To enroll in these classes, submit an on-Center Training Request and Authorization Form (NAVWPNCEN 12410/73) via department channels to Code 224. Registration will be held at the first class meeting. *Deadline for enrolling is 10 calendar days before the starting date of the class.*

EE 581: Non-Linear Control Systems (3 units)

Sept. 7-Dec. 21; Thursdays, 1610-1910; Training Center. By Professor Ed Gribes, CSUN, (818) 885-2180.

Prerequisite: EE 480N: Fundamentals of Control Systems or equivalent or consent of instructor.

Scope: Analysis of non-linear systems by means of describing functions and phase-plane diagrams. Stability studies by means of the second method of Liapunow.

Text: TBA.

EE 565N: Radar Systems (3 units)

Sept. 6-Dec. 18; Mondays, Wednesdays, and Fridays, 1130-1230; Training Center. By Dr. Wade Swinford, NWC ext. 2878.

Prerequisite: EE 550N: Random Processes or equivalent or consent of instructor.

Scope: Covers pulse and CW radars and target cross-section, receiver noise and losses, signal detection and matched filters, pulse compression, target parameter estimation, clutter and inferences.

Text: TBA.

IE 504: Economic Analyses of Engineering Systems (3 units)

Sept. 6-Dec. 20; Wednesdays, 1610-1910; Training Center. By Professor Mel Lifson, CSUN, (818) 885-2166.

Prerequisite: IE 405: Engineering Decision/Risk Analysis is recommended, but not required.

Scope: Evaluation of economic feasibility of large scale engineering systems. Projections of future economic environment, growth of demand, planned expansion of the system use of resources, levels of confidence in projections, risk evaluation and profitability analysis.

Text: Instructor will distribute notes.

Note: This is a core course in the (Continued on Page 17)



MCDONNELL PAYS TRIBUTE--NWC and Air Test Evaluation Squadron Five were both recently recognized for milestones in safe flying. In the above photo, Capt. John Burt, left, and Capt. Gene Allen, accept a plaque citing NWC's 50,000 hours of major accident-free flying earned in February 1989, from Warren Johnson, a representative of the McDonnell Douglas Corp, McDonnell Aircraft Co. In the bottom photo, Major Bobby Rowland and AO2 Mark Oppel accept a plaque for VX-5's 30,000 safe flying hours from McDonnell Douglas representatives Bill Flynn, far left, Johnson and Steve Logar. Photo by PH3 Rob Foster.



Radar helps CLPD to enforce speeding laws at China Lake

Motorists on board the Naval Weapons Center (NWC) are reminded that China Lake Police Division (CLPD) officers enforce state and NWC traffic regulations.

According to Kerry B. Swig-

gum, traffic manager, CLPD Operations Branch, areas of concentration for radar traffic enforcement for next week are listed below.

- Monday -- Burroughs Road.
- Tuesday -- South Knox Road.

Gillespie talks about quantum mechanics

"Is Quantum Mechanics Crazy, Or What?" is the title of the first talk to be presented in a new Technical Director's Seminar series. The talk is set for Wednesday, Aug. 23, at 9:30 a.m. in the Michelson Laboratory auditorium (Rm. 1000D). All interested Centerites are cordially invited to hear the talk by Dr. Dan Gillespie from the Research Department.

Dr. Gillespie's talk is for a general audience and will tell the story of a famous debate that began in the 1920s between

Albert Einstein and physicists who invented quantum mechanics. The debate was, as Einstein believed, only "an incomplete and indirect description of reality." It was finally resolved in 1964, nine years after Einstein died, through a surprising discovery made by a physicist named John Bell. Bell's discovery, which has only lately begun to be widely appreciated, exposes an astonishing peculiarity of nature's behavior on the atomic scale--a peculiarity that makes most sci-

entists very uncomfortable.

Head of the Applied Mathematics Research Group, Dr. Gillespie has authored the textbook *A Quantum Mechanics Primer* in 1970, before he came to NWC. He is currently a member of the Quantum Mechanics Working Group of the Introductory University Physics Project, which is sponsored by the American Physical Society and the American Association of Physics Teachers under a grant from the National Science Foundation.

Beautiful yards appreciated

Housing says...Congratulations from Command and the Housing staff to the winners selected as the Yard of the Month recipients for August. The winners are A01 and Mrs. James B. Christman,

345 Vieweg Circle; and First Lieutenant and Mrs. Clarence C. Ingle, 1923 Bogue Circle.

Their hard work, time, and efforts are reflected in the exceptional appearance of their yards.

We hope everyone will become involved in this program and work at helping to improve and maintain Navy Family Housing.

Take a drive by to see these beautiful yards

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A HAPPY MOMENT—As Dr. Carl Austin, head of the Geothermal Project Office, enjoys Carolyn Shepherd's surprise as Capt. John Burt, NWC Commander, tells her she has been awarded the Commander's Award for Excellence in Mission Support for her vital role in the construction of Navy Plant II of the Coso Geothermal Project.

Savings bonds available in limited denominations

As of July 1, 1989, Series EE Savings Bonds in the \$50 and \$75 denominations are no longer being issued except to individuals who have already subscribed for those denominations. In addition, those individuals currently participating at the \$50 and \$75 dollar level may not add additional \$50 and \$75 bonds or change their current bond purchase to an amount less than \$100. Savings bonds are available only in \$100, \$200, \$500, and \$1000 bonds denominations.

Initiative, perseverance earns Shepherd honors

By bringing an idea to reality, Carolyn Shepherd played a vital role in the construction of Navy Plant II of the Coso Geothermal Project.

Because of her initiative and perseverance on this project, she was presented the Commander's Award for Excellence in Mission Support by Capt. John Burt, Commander, NWC.

"Your exceptionally conscientious efforts in managing the complicated interagency cooperation required to carry the permitting process forward has allowed the Coso project to be continued in a timely and economically feasible fashion," said Capt. Burt. "The completion of this plant will enable the

geothermal power production at Coso to provide substantial dollar, as well as energy, savings to the Navy."

Nominated for the award by Capt. Ken Kelley, Public Works Officer, Shepherd was credited with possessing "detailed understanding of the procedures of the state regulators as embodied in the State Energy Commission."

Capt. Burt concluded the award presentation by thanking Shepherd for her fine work and extending his personal appreciation for the education in California government he has received by his own association with this project.

Enter now for photo contest

Entries are being accepted for the 28th annual Naval and Maritime Photo Contest, the U.S. Naval Institute and the Government Systems Division of the Eastman Kodak Company recently announced.

Cash prizes of \$500, \$350 and \$250 will be awarded to the photographers of the top three entries. In addition, 15 Honorable Mention winners will each receive \$100.

All photos submitted for the contest must pertain to a naval or maritime subject, and may be either black and white prints, color prints or color transparencies. Entries must include a caption and the photographer's name, social security number, and address printed or typed on a separate sheet of paper. The minimum acceptable print size is 5" x 7". The minimum acceptable transparency is 35mm. Photos are not limited to those taken during this calendar year.

Anyone is eligible to enter, however, there is a limit of five entries per person. Entries must be received on or before Dec. 31. Winning photos will be published in the April issue of *Proceedings*, the monthly magazine of the U.S. Naval Institute. Photographs not awarded prizes may possibly be purchased by the Institute.

Mail entries to Naval and Maritime Photo Contest, U.S. Naval Institute, Annapolis, Maryland 21402.

Pan Am World Services takes over contract for support services at NWC

Pan Am World Services ("World Services"), a subsidiary of Johnson Controls, Inc., assumed responsibility for several facility management contracts held by FlightSafety Services Corporation as of Aug. 1. The contracts involve operations at three naval bases in the United States, including the Naval Weapons Center.

According to Greg Kahler, World Services' project manager, personnel employed by FlightSafety

Services have already been picked up by World Services.

Pan Am World Services performed the support services at China Lake prior to losing the contract to United Airlines Services Corporation in 1987.

"World Services is looking forward to its renewed association with the Navy and the Ridgecrest community," said Kahler.



Greg Kahler, Pan Am World Services' project manager.

Get into the habit!

"Safety belts are uncomfortable and inconvenient."

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Personnel news and notes

(Continued from Page 14)

Reassignment opportunities

This column is used to fill positions through reassignment only. For this reason, the Reassignment Opportunity Announcements are separate from the Promotion Opportunities column in the Rocketeer. Applications will be accepted until the date stated in the announcement. Employees whose work history has not been brought up to date are encouraged to file an SF-171 or 172. All applications must meet minimum qualification requirements established by the Office of Personnel Management. Information concerning the recruitment and placement program and the evaluation methods used in these reassignment opportunities may be obtained from Personnel Management Advisors (Code 096 or 097). Applications should be filed with the person whose name is listed in the announcement. The Naval Weapons Center is an Equal Opportunity Employer.

NO. 32-039, Supervisory Interdisciplinary (General/ Mechanical/Aerospace Engineer/Physicist) DP-801/830/861/1310/3/4, Code 3267 - This position is Head of the Gun Systems Branch, Conventional Weapons Division, Ordnance Systems Department. The incumbent will be responsible for project definition, planning, coordination of numerous branch projects. The incumbent will prepare or direct the preparation of program plans, statements of work, task assignments, technical reports and other documentation necessary for the development and/or acquisition of the gun systems. Incumbent will conduct program status reviews and provide overall management and coordination for the branch. Incumbent should be familiar with ammunition and aircraft gun systems, the Navy acquisition process, Center management review process, technical documentation policies/instructions, and be able to interface effectively with all levels of management, program sponsors and various inter-service organizations and contractors. Incumbent must be able to communicate effectively orally and in writing and must have a willingness to support NWC EEO policies and goals. Incumbent will be required to serve a supervisory probationary period of one year, if not previously completed. To apply for this position, send a copy of current SF-171 to Attn: Mel McCubbin, Code 326, NWC Ext. 7303.

No. 35-054, Interdisciplinary Electronics/Electrical Engineer, DP-855/850-2/3, Code 3565 - This position is

located in the Missile Test & Evaluation Branch, Missile Software Division, Attack Weapons Department. The position is for a Guidance Engineer evaluating Anti-Radiation Missile (ARM) Seeker Section. Upgrades involving Software and Hardware changes. The incumbent has the overall responsibility to assure that the seekers meet the engineering specifications. The tasks include defining seeker tests, preparation of detailed seeker and missile test plans, review of target antenna patterns and parametrics, review of real time data from strip charts at T-Pad, in depth analysis of the seeker data including signal processing, propose new tests, review of contractor supplied acceptance test data, comparison of test results between the various seeker configurations and preparation of test reports. Send SF-171 to William Leverett, extension 2951.

No. 35-055, Interdisciplinary Electronics/Aerospace/General Engineer/Physicists, DP-855/861/801/1310-2/3, Code 3565 - This position is located in the Missile Test & Evaluation Branch, Missile Software Division, Attack Weapons Department. The position is for a RF Targets Engineer supporting Anti-Radiation Missile (ARM) Captive Flight Test and Missile Firing operations. The incumbent has the overall responsibility to assure proper RF Targets are available as scheduled for ARM Test & Evaluations. Tasks include issuing detailed Target requirements for each firing and then coordinating with range personnel to assure proper targets are in place and operational. The incumbent will participate in target check flights, certification procedures, review antenna patterns and target parametrics, and present recommendations at pre and post fire reviews. The incumbent will also plan seeker captive flight testing using a TA-4 aircraft against existing NWC Radars and special new generation threat radars including those located on other ranges. This position will involve long-range target planning and communication with various NWC Codes and contractor personnel to assure that target development is optimum for ARM testing. The incumbent must have a working knowledge of Radar, RF Systems, Antennae and Threat Radar Systems. General experience associated with Air to Ground Missiles and Electronic Warfare Systems is desirable. Send SF-171 to William Leverett, extension 2951.

No. 35-056, Interdisciplinary Electronics/Mechanical/Aerospace Engineer, Mathematician, Physicist, Computer Scientist, DP-855/830/861/1310/1520/1550-2/3, Code 3564 - This position supports the Sea Lance Program. The incumbent provides independent technical analysis and design and evaluates contractor algorithms, design and code for the

Sea Lance Missile. The incumbent develops tests for embedded missile software utilizing simulations and hardware-in-the-loop facilities. The incumbent evaluates Ada compilers for performance appropriate to missile software. The incumbent participates in contractor design reviews, technical interchange meetings, and software walk-throughs. Send SF-171 to William Stratton, extension 1061.

No. 39-068, Electronics Engineer, DP-855-2/3, Code 3943 - This position is located in the Advanced Signal Processing Branch, Electro-Optics Division, Intercept Weapons Department. The incumbent will become part of a small team which will perform analysis and synthesis of signal processing algorithms and techniques for anti-air weapons systems. A significant portion of this effort will involve modeling stochastic processes. Promotion potential to Dp-3, but not guaranteed. To apply send updated SF-171 to James Van Devender, Code 3943, NWC phone 4623.

No. 62-025, Electronics Engineer, DP-855-1/2/3, Code 62352 - This position is in the Laser Systems Section, Advanced Systems Branch, Instrumentation Systems Division of the Range Department. The branch is tasked with the development of new range instrumentation and providing engineering support to range instrumentation operators. These efforts include radar, laser tracker, manned and unmanned optical tracker instrumentation, and advanced video instrumentation. section emphasis is on laser tracker development efforts. Incumbent will function as a design engineer in support of those efforts as well as other branch electronic system development projects. Incumbent should have experience in digital/microprocessor and analog circuit design, with emphasis on analog and control system circuits. Ability to communicate both orally and in writing is highly desirable. To apply send current SF-171 to Tom Miller, Code 62352, NWC ext. 6445. Status eligibles may apply. Previous applicants need not reapply.

No. 62-055, Electronics Engineer, DP-855-3, Code 6204 - This position is located in the Radar Cross Section Range Office of the Range Department. The incumbent will act as a technical consultant in Radar Cross Section technology in support of test programs wishing to use the Junction Ranch RCS test range. Besides helping to plan testing programs, the incumbent will also participate in range tests and perform other technical duties in support of the test facility. Knowledge of RF, digital and analog hardware as well as computer software is desirable. To apply send current SF-171 to John Denson, Code 6204, NWC ext. 6076.

Secretarial opportunities

This column is used to announce secretary positions for which the duties and job relevant criteria are generally similar. Secretaries serve as the principal clerical and administrative support in the designated organization by coordinating and carrying out such activities. Secretaries perform numerous tasks which may be dissimilar. Positions at lower grades consist primarily of clerical and procedural duties and, as positions increase in grades, administrative functions become predominant. At the higher levels, secretaries apply a considerable knowledge of the organization, its objectives and lines of communication. Depending on grade level, typical secretary duties are implied by the job relevant criteria indicated below.

Applicants will be rated against four or more of the following job relevant criteria: (1) ability to perform receptionist/telephone duties; (2) ability to review, track, screen and distribute incoming mail; (3) ability to review outgoing correspondence; (4) ability to compose correspondence and/or prepare non-technical reports; (5) knowledge of filing systems/files management; (6) ability to meet the administrative needs of the office; (7) ability to train clerical personnel and organize workload of clerical staff processes; (8) ability to plan/coordinate travel arrangements; (9) ability to maintain/coordinate supervisor's calendar and to arrange conferences.

Unless otherwise indicated, applicants for branch secretary will be rated on elements 1/2/3/5/8; division secretary applicants will be rated on elements 1/2/3/4/7/8/9; Program Office secretary applicants will be rated on elements 1/2/3/4/5/8/9; and department secretary applicants will be rated on elements 4/7/8/9. A SUPPLEMENTAL FORM IS REQUIRED AND MAY BE OBTAINED IN ROOM 100 OF THE PERSONNEL BUILDING.

No. 38-004, Secretary (Typing), DG-318-2, Code 381 - Incumbent serves as Division Secretary providing clerical and administrative support to the Division Head of the Physics Division and other Division/Department staff. Incumbent participates as an active member of the Physics Division management team. Candidates must possess knowledge of Naval correspondence, domestic and foreign travel, personnel actions and procurement as well as general secretarial and administrative procedures. Candidates must demonstrate positive interpersonal skills in interaction with personnel

at all levels. Experience using the Macintosh II and Microsoft Word is desirable. Promotion potential to the DG-3, but not guaranteed. Status eligibles may apply. Previous applicants need not apply.

No. 64-041, Secretary (Typing), DG-318-1/2, Code 6411 - This position is located in the Recovery Systems Division and provides secretarial and administrative support to the Systems Development Branch and Aerosystems Project Office (Code 641A). Ability to use or learn to use the Macintosh II is highly desirable. Promotion potential to DG-2, but not guaranteed. Status eligibles may apply.

English Writing Proficiency Test planned Sept. 7

On Thursday, Sept. 7, the English Writing Proficiency Test will be given to graduate students of Cal-State Northridge (CSUN). CSUN students should take the exam as soon as application for admission has been submitted. **This test must be passed before the student is granted unconditional status as a master's candidate.**

Graduate students must attain unconditional status before earning more than 12 units of academic work acceptable towards the master's degree. The exam fee is \$12. Checks must be made payable to California State University, Northridge (CSUN). Contact Helen, ext. 2648, to arrange to take the exam.

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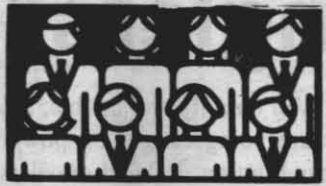
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Promotional opportunities

Applications for positions listed below are being accepted from Department of Navy employees currently working at NWC and from eligible employees of attached activities who are permanently assigned to NWC. This group includes employees with career or career conditional appointments; employees with permanent Veterans Readjustment Act (VRA) appointments; temporary employees with reinstatement eligibility; and handicapped employees with Sch. (A) continuing appointments. Also included are spouses, with competitive status, of civilian sponsors hired by a DOD activity within NWC's commuting area. Applications from other groups will be accepted when specified in an advertisement. Vacancies are subject to restrictions imposed by the DOD Priority Placement Program. Applicants must meet all legal and regulatory requirements, including minimum qualifications requirements, by the closing date of the advertisement. Evaluation of applicant's qualifications will involve using at least two assessment measures. Assessment measures are work experience, annual performance assessment rating and narrative, education, training, performance assessment and awards.

Eligible spouses (of military sponsors) with competitive employment status may apply for employment preference. Those enrolled in this program will automatically receive consideration for employment on vacancies for which they applied. For initial employment information, career counseling and enrollment, call 939-3317 for an appointment.

HOW TO APPLY: Submit the following: a current application, SF-171 or other Human Resources Department pre-approved form; a copy of your most recent annual performance assessment narrative (note: a copy of your performance plan should be attached if the annual performance narrative description does not clearly state the tasks/duties performed); and a completed Background Survey Questionnaire. A supplemental narrative which relates your qualifications to each knowledge, skill or ability (KSAs) as cited in the advertisement is always desirable and may be required if stated in the vacancy announcement. Write the title, series, level (grade), and announcement number on all application materials. Not submitting the annual performance narrative may adversely affect your evaluation scores. Prior to submitting your application, complete Cover Sheet Form 12335/2, available at the reception desk. **Make sure your address, phone number, etc. are current, correct and that all forms are complete and accurate.** If information is missing, your qualifications may not be fully and completely rated. Additional information cannot be submitted after the closing date of the announcement. A current date and a signature on the last page completes the application. Civilian Spousal Program Eligibles with competitive employment status must submit a copy of their sponsor's PCS orders with each application in order to be considered for Merit Promotion vacancies which do not state that status eligibles may apply.

Application materials are accepted, and blank forms are available, at the Reception Desk, Room 100, Human Resources Department, 505 Blandy. Announcements close at 4:30 p.m. on Friday, one week after the opening date of the announcement, unless otherwise specified. Applications received after 4:30 p.m. on the closing date will not be considered. Copies of Applications may be submitted since applications are kept in an announcement file and cannot be returned or filed in personnel folders. The Naval Weapons Center is an **Equal Opportunity Employer**; selections are made without discrimination for any non-merit reason.

No. 22-016, Computer Specialist, DS-334-2/3 or DP-334-3, Code 228 - Position is data base administrator for the Personnel Data Access System (PDAS). PDAS is the source for both Code 22 and NWC corporate personnel data and reports and is a relational database residing on the Britton Lee database machine which is part of the SCF VAX cluster. Responsibilities include: maintaining "command" and "data" files associated with the database; performing retrievals of data in various forms for reports, downloading to other computers (including PCs), and analysis by various Center organizations; managing user database modules; and responding to requests for ad hoc reports and data. Works closely with users in other divisions of the Human Resources Department on PDAS modules which support their specific functions and recurring projects such as the annual training plan and Workforce labor tape for OPM. **Job Relevant Criteria:** Knowl-

edge of relational databases; knowledge of SQL and FREEFORM; knowledge of VAX VMS; ability to work well with a wide variety of peoples; and ability to communicate orally and in writing. Promotion potential to DP-3.

No. 25-005, Procurement Clerk (Typing)/Procurement Assistant, DG-1106-1/2/3, Code 25 - Incumbent is responsible for providing clerical support in the form of typing (utilizing Xerox 860 Word Processor), filing, compiling data maintaining logs, and performing follow-up on action item suspense dates for a wide variety of contractual action. Maintains instructions and FAR Clause books, reviews correspondence and suspense action items, and receives visitors and telephone calls. At the higher levels, uses a wide variety of guidelines including DOD and Navy Acquisition Regulation books, in providing specialist assistance. **Job Relevant Criteria for DG-1:** Knowledge of correspondence regulations and

contractual terminology; ability to meet with people effectively and prioritize work under heavy workload conditions; ability to type. At the assistant level, the incumbent assists Contract Specialists in the administration of complex contracts including monitoring performance and negotiating and writing modifications. Reviews contract files for proper format, documentation and input into automated information processing system. Maintains extensive status of action items for the section. **Job Relevant Criteria for DG-2:** Knowledge of Federal Contract Procedures; ability to read and correctly review contracts; ability to organize file documentation; ability to prioritize and process in an orderly manner, multiple tasks simultaneously. **Job Relevant Criteria for DG-3:** Knowledge of Federal Contract Procedures; ability to compile data and information for negotiation; ability to assemble more complex contracts. Procurement Clerk (Typing)/Assistants have promotion potential to DG-3, however it is not guaranteed.

No. 34-023, Editorial Assistant, DG-1087-1/2, Code 3465. This position is located in Field Branch 5, Field Service Division, Technical Information Department. The incumbent performs composition, layout, copy editing, and proofreading services for a variety of technical documents and visual aids. The incumbent is responsible for the preparation and accuracy of final camera-ready copy for technical reports produced in the branch. **Job Relevant Criteria:** Knowledge of NWC Style Guide and pertinent DoD and Navy directives. Knowledge of the English language, grammar, spelling, use of abbreviations, and proofreading techniques; ability to prepare and lay out manuscripts in proper format; knowledge of word processing on a Macintosh computer; ability to work accurately under pressure of deadlines; ability to acquire and hold a secret clearance. Promotion to DG-3, but not guaranteed.

No. 35-051, Trainee Position, Electronics Technician, DT-856-A, Code 3575 - This is an upward mobility position. Target position is an Electronics Technician, DT-856-1. Promotion potential is Electronic Technician DT-856-3. This position is located in the Design and Fabrication Branch, Advanced System Division, Attack Weapons Department. Incumbent will work as a member of the branch to provide electronic fabrication assembly support to various projects. Duties include fabrication of electronic printed wiring boards, wire wrap boards, and assembly and wiring of systems for flight validation testing. Will assist in the design, layout and testing of printed circuit boards. The training portion of this position will involve specialized on the job and formal class room training. **Job Relevant Criteria:** Ability to learn basic electronic theory; ability to learn how to read assembly drawings and schematics; ability to communicate in writing; ability to communicate orally; ability to use electronic tools and test equipment. Occasional off center travel is required. Eligibility: A. NWC employees DA/DS/DT-2, DG-4, GS/WG-9 or equivalent and below, who are eligible for reassignment or change to lower grade to the trainee position; B. Veterans Readjustment Act appointees; C. NWC employees who are currently serving in permanent excepted positions under Schedule A appointing authority of the severely handicapped section 213.3102 (u). Such candidates will be referred to the selecting official on a

separate listing. A supervisory appraisal form (NAVWPNCEN 12335/4) is required, you may pick up the form in the Personnel Building, Room 100. Previous applicants need not apply.

No. 36-037, Equipment Specialist (Missile), DS-1670-2/3, Code 3661 (Multiple Vacancies) - This position is located in the Fleet Readiness Branch. The incumbent provides logistics planning and system support to Foreign Military Sales (FMS) customers, provides technical and logistics assistance to development and in-service activities on issues that effect domestic/FMS operations and support, provides technical assistance and coordination for resolution of fleet reported deficiencies, and provides technical assistance for development of Navy training programs. **Job Relevant Criteria:** Knowledge of weapons systems (missiles/ordnance), fleet operations, logistics and training; ability to plan and coordinate activities; ability to conduct analysis; ability to prepare/manage budgets. Status eligibles may apply. Promotion potential to DP-3. This ad has been amended to include DS-2. Previous applicants need not reapply.

No. 36-044, Supervisory Engineering/Electronics Technician, DT-802/856-3, Code 36412 - This position is Head, Electro/Mechanical Measurement Section, Metrology Branch, Engineering & Production Processes Division, Engineering Department. The incumbent will provide leadership, technical guidance and supervisory duties for employees who perform calibration and repair of various test and measurement equipment (TME) in support of the NWC Metrology Program. The incumbent is also responsible for supervising the physical and dimensional calibration functions provided by the Branch. Incumbent provides plans and schedules work activities in support of the Electro/Mechanical Section and contributes to fulfill the on-site calibration requirements of the branch. **Job Relevant Criteria:** Knowledge of test and measurement equipment (TME) and calibration techniques employed to support electronic and electro-mechanical calibration; knowledge of safety practices; knowledge of NWC personnel policies and procedures; knowledge of and a willingness to support NWC EEO policies and affirmative action plans; ability to communicate both verbally and in writing. Incumbent may be required to serve a one-year supervisory probationary period. Promotion potential to DP-3, but not guaranteed.

No. 36-045, Electronics Technician, DT-856-2/3, Code 36411 - This position is in the Precision Measurement Section, Metrology Branch, Engineering & Production Processes Division, Engineering Department. The incumbent will perform tests, calibrations and repairs on a large variety of test and measurement equipment (TME). Incumbent will also maintain calibration standards to provide traceability of measurements. The incumbent may be assigned as a member of the on-site calibration team capable of a vast amount of various TME and/or special system calibrations. **Job Relevant Criteria:** Knowledge of electronic test and measurement equipment (i.e. signal and pulse generators, frequency counters, sweep generators, oscilloscopes, power meters, spectrum analyzers and various multi-function meters); ability to perform calibration of TME per Metrology Instrument Calibration Procedures (ICP) or manufacturer specifications; ability to work effectively independently or as a

member of a team. RF experience is desirable. Promotion potential to DT-3, but not guaranteed. This ad is amended to include DT-3. Previous applicants need not reapply.

No. 62-033, Electronics Technician, DT-856-1/2/3, Code 6251 - This position is located in the Computer Systems Branch. The incumbent will assist in the operation and maintenance of the Range Control Center Integration and Processing System (RIPS), a major Range Instrumentation System. This center supports many aspects of range testing and is crucial to controlling tests and providing data to range customers. Incumbent will provide technical support to this system. **Job Relevant Criteria:** Knowledge of video systems, communications devices, data interfaces and the operations thereof; knowledge of range operations; knowledge of major computer systems; ability to read schematics; ability to operate, maintain and repair large sophisticated computer systems including peripherals. Promotion potential to DT-3. Previous applicants need not reapply.

No. 62-053, Supervisory Electronics Engineer, DP-855-3, Code 62143 - This position is located in the Warhead Test Branch, Ordnance Test and Evaluation Division, Range Department. This branch is responsible for test and evaluation of warheads and explosives. The incumbent directs the facility design, instrumentation systems and data acquisition for the electronic measurements on these tests. The incumbent is the section head and directs a staff of 4-5 other technicians, scientists, and engineers. The incumbent will maintain the branch in the state of the art for the measurement of transient phenomena such as shock waves and detonation. The incumbent must be able to research and select suitable equipment. The actual test effort will require outdoor work and the ability to work in the proximity of explosives. **Job Relevant Criteria:** Knowledge of test and evaluation of warheads and explosives; knowledge of instrumentation systems and data acquisition for the electronic measurements of warhead and explosive tests; knowledge of and willingness to support EEO goals and objectives; ability to communicate orally; ability to communicate in writing; ability to work effectively with a wide variety of people and organizations. New supervisors will be required to serve a one year probationary period. Promotion potential to DP-3.

No. 62-054, Ordnance Equipment Mechanic Leader, WL-6641-10, Code 62223 - Supplemental Required - This position is located in the Operations Section of the Track Operations Branch (SNORT), Range Operations Division, Range Department. Incumbent will be a working leader who will lead several employees in accomplishment of work assigned by the Section Head on a variety of dynamic, high priority assignments. In addition, the incumbent will be required to perform the duties of an Ordnance Equipment Mechanic, which involves environmental and terminal testing of rockets, guided missiles, projectiles, high explosive items and other ordnance and non-ordnance items. **Job Relevant Criteria:** Applied knowledge of the trade; ability to act as a group leader; ability to interpret instructions; knowledge of pertinent materials; knowledge of pertinent tools and equipment. A Wage Grade Leader Supplemental is required and may be obtained in Room 100 of the Personnel Building. Promotion potential to WL-10. (Continued on Page 15)

August 4, 1989

August 4, 1989

NWC Rocketeer 7

Scouts say let the good times roll

Local boys enjoy week of fun in the sun at Cub Scout summer day camp



SCOUT CAMP-above, youngsters line up to make their own ice cream sundaes from a variety of toppings and flavors; above right, boys build up an arsenal of water balloons for the water balloon slingshot; below, older scouts help a Cub Scout launch a water filled missile with the innovative water balloon slingshot.

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Cub Scouts from ten different packs in the Ridgecrest and Inyokern area convened at the park behind the new NWC Conference Center for their summer day camp.

From Aug. 1-4 the eight and nine year old Cub

Staffed entirely by volunteers, the summer day camp offered a variety of diversions ranging from making your own sundae to learning about desert tortoises.

In addition, the young scouts worked on electronic projects and arts & crafts;

Thursday evening, in keeping with scouting tradition, the scouts and their families held a cookout with all the fixings, including pinatas and singing.

Taking the time of year into consideration, the volunteer staff and older scouts earning service hours helping out at the camp, planned a series of water events. Not only did the scouts swim daily, but they also made use of water balloon slingshots. Perhaps the highlight of the week came on Friday with the very messy, but very fun Double Dare Obstacle Course, complete with hose-down by the Fire Department at the end of the race. Goody food in the race and yummy prizes for the victors, donated by local merchants, made the Double Dare event a huge success.



Scouts met to work on projects, attend presentations and partake in fun activities.

saw a movie, "Follow Me Boys!"; learned about hours; and observed a marital arts demonstration.



photos by Lisa Blanc

Skipper Sez...

QUESTION

I work as a government contract surveillance representative (CSR) monitoring the Flightsafety contract here on base. I have two related problems. The first has to do with cars being parked on the streets when the street is scheduled for sweeping.

I have spoken with Housing and they say signs are posted and the tenants are told to stay off the streets on the scheduled days (according to the signs).

The second problem has to do with a highly visible area by the high school. The students are parking on the streets, congregating and leaving their trash all over the tenants' lawns and streets. This has happened before and after the street sweeper has been in the area.

Housing has reported both problems to the China Lake Police Department and they say that there is nothing they can do about it.

Who is responsible for enforcing Center regulations in the above mentioned problems (protecting the government's property and the rights of the tenants)?

As the CSR for street sweeping, I cannot enforce the contract requirements for sweeping the street when there are cars present and the contractor cannot keep the streets clean and free of debris.

ANSWER

I too am concerned about the cleanliness of our streets and the littering of our neighborhoods. I have instructed the Police division to begin enforcing the street sweeping instruction and to take other appropriate enforcement action to stop littering. We all must make an effort to keep our housing area as clean and livable as it can be. I'm asking all residents to heed the parking restrictions on those days that their street is scheduled for sweeping.

QUESTION

I am calling to check the validity of the gate guards. It seems to be an awful waste of money when they can do little more than sign passes for visitors. My vehicle stickers have been expired for over four months, and while I only recently became aware of it, not once during those four months was I stopped because of expired stickers. The gate guards appear to be looking at the stickers, but what they are really looking at I have no idea. I called the COTR on the contract and his words were "The

guards are in a tough position because if they look too hard, they hold up traffic." So, I ask you, what are their real purpose considering the money NWC is spending to have them out there?

ANSWER

Thank you for your concern regarding the Security Guards at

the Main Gate. The Security Guard force at the Main Gate is instructed to check each vehicle for a pass. If you have been holding up your NWC badge when coming through the gate, then the vehicle pass is not necessary and the expired dates may have been overlooked. There are approxi-

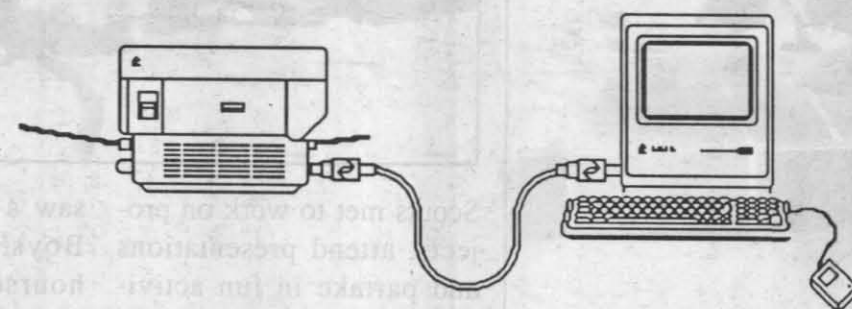
mately 15,000 vehicles entering the NWC Main Site in a 24-hour period. The largest percentage of these vehicles enter during the hours of 0630 to 0800 and 1200 to 1330, Monday through Friday. Additionally, the guards issue approximately 300 vehicle visitor passes per day. The Security

Guards have again been instructed to be more careful in checking vehicle decals. Many of the date stickers are old and in poor condition, causing the guards to misread them. It is the vehicle owner's responsibility to obtain replacement decals if damaged or expired.



Grand Opening!!

We Moved!!! In order to better serve the needs of our customers, Falcon Microsystems has moved into a much bigger Location. So plan to stop in during our Grand Opening the week of Aug 7-11 and attend one or more of the events outlined below. See you there!!!



	9am	10am	1pm	3pm	5pm
Monday Aug 7th Open House	Intro Welcome	Session New Training	Session Networking	Session New Training	Reception
Tuesday Aug 8th Apple Day	Keynote "Mac Connects"	Session Connectivity	Session Dsktp Media	Session CAD / CAM	Reception
Wednesday Aug 9th Apple Day	Keynote "Dsk Media"	Session Dsktp Media	Session Connectivity	Session CAD / CAM	
Thursday Aug 10th Vendor Day	Keynote "Graphics"	Session Video swtwe	Session Dsktp presentations	Session Graphics	Reception
Friday Aug 11th User Group day	Keynote "Viruses"	Session NWC Group	Session Edwards Group	Session R/C Group	Reception



For more Info Call:

Falcon Microsystems Inc.

117 Gold Canyon China Lake, Ca.93555

619-375-7771



Weather good, mosquitoes bad for anglers

While the weather has been beautiful in the Eastern Sierra area, the Bishop Chamber of Commerce warns anglers to watch out for the mosquitoes, as they are out in force. Be sure to bring lots of repellent. High temperatures have been running in the low 100s.

Fishing in the Lone Pine area has been real good with lots of limits being taken on power bait and eggs. In the back country, the favorite flies are the Sierra Bright Dot, Royal Coachman and California mosquito. The lake hasn't been releasing too many fish.

In the Big Pine area, Big Pine Creek is still good. Bait fish with power bait, salmon eggs, orange cheese and mini marshmallows. For those fishing in Baker Creek, the fish are in the deep pools. The Owens River in the Goodale area has been good for anglers using salmon eggs or worms.

The river is still up and quite swift in the Bishop area. Limits are being taken on flies and crickets. Lake Sabrina is doing

well on bait, with night crawlers being used around the inlet. Trolling is best with a Dave Davis and a worm. Bishop Creek is still good with power bait and eggs. In the Pleasant Valley Dam area, fishing is best in early morning and early evening. Use power bait and night crawlers, both near the gorge and the dam area.

Fish Rock Creek with power bait, red eggs, worms and night crawlers. Fly fishing is good for those using the "Rock Creek Special," California mosquito and green bodied mosquito. The creek is being planted every week with 10-12 inch trout. Rock Creek Lake is also releasing lots of fish for anglers using power bait and changing colors of the bait as they fish, worms and night crawlers.

Lots of limits on being taken from Convict Lake. For shore fishing, use power bait, worms and marshmallows. Troll with a cowbell flasher and night crawler. A 4-lb. brown was caught last week by someone using a Panther Martin.

Crowley Lake is releasing plenty of

quality catches: 3-4 pounders are being taken regularly on giant cowbells with an 18" leader and a half a worm. Perch are of a large size and are staying about 20 feet deep. Use a split show 18" above the jig or troll very slowly. As of August 1, Crowley Lake has new regulations. Anglers will be restricted to a two trout daily limit, both of which must be at least 18" total length. During this time, the lake will be open from 8 a.m. to 7 p.m. and closed on Tuesdays. Remember, only artificial lures with a single, barbless hook can be used. Mid-summer rules will remain in effect until Nov. 1, at which time the Eastern Sierra trout season will close for 1989. There is no size or possession limit on Sacramento perch, but gear restrictions are the same as for trout. Crowley tributaries between the north end of the lake and Highway 395 will remain open to the take of 10 trout daily, 10 in possession with any legal bait allowed. Tributaries' restrictions will begin Oct. 1.

Lake George in the Mammoth Lakes

area is doing well on a fly and bubble; 2-5 lb. rainbows are being caught on power bait or Panther Martins. Inflated crawlers are working off the bottom. Twin Lakes has a lot of stock-size trout. Power bait is the best bet. Sacther Lake by Devils Post Pile has good stock-size trout in it. For best results, use a fly and bubble.

In the June Lake area, June, Gull and Silver lakes have 4-6 lb. brood stock. Troll with silver needlefish and frogs. Bait fishing is best on power bait, worms or marshmallows. Red eggs at Grant Lake are "knocking 'em dead" at the inlet.

Boat fishing on the reservoir in the Bridgeport area is great with bait. Watch the rod's tip, though, because lots of weeds are in the lake. Lure fishing has only been good to fair because of all the weeds. Twin Lakes gave up two more browns; one weighing 11 1/2 lbs. and the other 12 lbs. Use a fly and bubble in the evenings from the shore to catch plants -- also power bait and eggs.

Trout broodstock planted

Breaking with a long standing tradition, California Department of Fish and Game hatchery personnel planted several hundred of their trout broodstock from Hot Creek hatchery. Rainbow trout ranging from 2.5 to 5 pounds were planted in the June Lake Loop and Mammoth Lakes area of Mono County.

"We usually plant some of the broodstock after the end of the fishing season. We had some excess trout this year and decided to give anglers a chance at some 5 pounders," said Curtis Milliron,

Fish and Game fisheries biologist.

Milliron said that in early July, Fish and Game hatchery personnel planted about 250 2.5-pound and 250 5-pound rainbow trout between George Lake, Lake Mamie and Lake Mary. At that time, Fish and Game personnel planted a like number of quality broodstock in the June Lake Loop.

In all, approximately 1,900 pounds of broodstock trout were planted in the Mammoth Lakes area, worth an estimated \$5,000.

"We will also plant more broodstock after the fishing season closes. These large fish will carry through the winter and show up in next year's catch," Milliron said.

According to Fish & Game biologists, this mid-season broodstock plant will help save on trout production costs from feeding, space and personnel time.

"We are glad to be able to provide these very large fish to anglers. It should make for some exciting fishing in the Eastern Sierra," Milliron concluded.

Pistol clinic set for August 12

See how that handgun shoots during the pistol clinic being hosted by the Sierra Desert Gun Club on Saturday, Aug. 12. The clinic will be held from 9 a.m. to noon at the club's facilities on base. Either shoot the targets, or

shoot the bull. Beginners through experts are welcome.

Some handguns will be available at the range if needed. There is no charge for this clinic for members and non-members alike. Anyone interested who don't have

a Sierra Desert Gun Club membership or badge access should call Mike Martyn as soon as possible at NWC ext. 1326 during working hours or 377-1326 in the evenings to make necessary arrangements.

Register now for mini triathlon

It's time to begin training for the Mini Triathlon 1989, set for Saturday, Oct. 7, at the Officers' Pool and surrounding areas. Entry forms are now available at the Gymnasium Annex. The early birds will have a choice of the best heat times.

Entry fees are \$15 per person. The Gym Annex is open for hand-delivered entries from 9 a.m. to 5 p.m., Monday thru Friday. Mail entries should verify

heat time. Please make sure both sides of the entry form have been completed and signed.

Participants will complete a 1/2-mile swim (32 lengths), 25-mile bicycle race and a 6.2 (10k)-mile run. Events will take place in the order listed above.

Deadline for entry is Wednesday, Oct. 4; however, entries are limited, so don't wait for the last minute to enter. For more information, call NWC ext. 6542.

Users must pick up their own property

Personnel who left personal belongings in lockers located in the NWC Gymnasium prior to the gym's closure have until Sept. 15 to pick up their property. Items not picked up will be disposed of on Sept. 16.

For further information, please call NWC ext. 6542.

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Some changes already in effect, others planned

Bill Booth takes over Hall Memorial Lanes

"I want to fill Hall Memorial Lanes with a house full of satisfied bowlers," said Bill Booth, new manager of the NWC bowling facility.

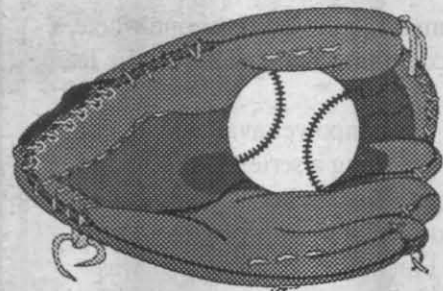
Bowlers coming into the bowling alley will be greeted by smiling employees and offered whatever assistance they need, stated Booth. "I am an avid bowler and know what I want when I come into a house, and that is the atmosphere I want here," he said. "Bowlers should be able to come in and enjoy themselves and when they leave, they should have the feeling of wanting to come back."

"The lanes will be closed today (Friday) for resurfacing"

Booth is bringing back "Blue Chip Bowling" to the lanes. According to the manager, this was a popular program at Hall Memorial Lanes a few years ago. In Blue Chip Bowling, people bowl for blue chip stamps instead of money. The stamps are later redeemed for household items, sports equipment, outdoor equipment, etc. "People used to have a hard time finding a place to redeem the stamps," said Booth, "but now, they can choose the items they want from the catalogue and order them through the mail. There is no shipping charge."

Booth also plans on implementing a Monday night's Men's Scratch Trio and a Thursday night's Mixed Scratch Trio. In addition, he hopes to start a departmental bowling league. "This would be where each department gets a team together where they can compete against rival departments," he said. "We will publicize all standings in the *Rocketeer*."

Getting the bowling alley's equipment into A-1



Go ahead given for fall baseball

IWV Youth Baseball will hold an instructional fall league this year for the valley's youth. The league will play from Aug. 21 until Nov. 19, with games starting the first part of September.

For this first fall season, divisions will consist of Mustang (9-10 year olds), Bronco (11-12 year olds), and Pony (13-14). League ages will be that of the spring 1990 season. For example, if a player played in the Bronco Division this past spring at league age 12, he/she would be eligible to play Pony for fall ball at league age 13. Teams will be selected by the player distribution system.

Games will be played two

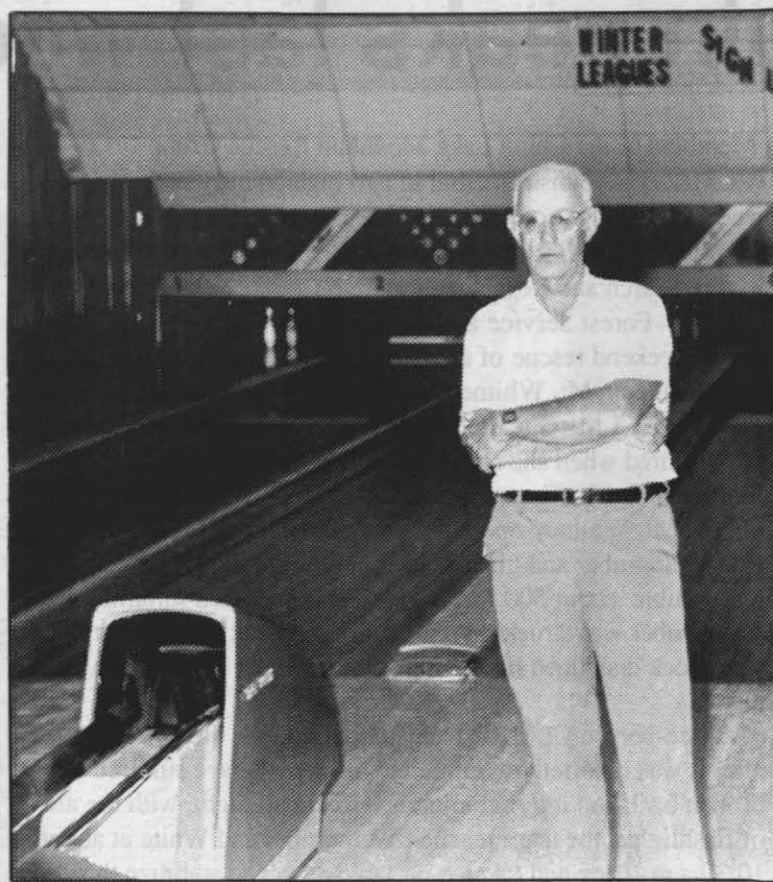
shape is a top priority for Booth. "I have already ordered new balls, including several 6- and 7-pounders, and two sets of alley bumpers for the younger bowlers. In addition, the lanes are scheduled to be resurfaced today, Friday," he said. "This necessitates the closure of Hall Memorial Lanes all day. Regular hours of operation will resume tomorrow (Saturday)."

Ramps have already been installed so handicap bowlers will have access to the lanes.

Booth stressed that he wanted suggestions and comments from Hall Memorial Lanes' patrons and former patrons. "I want the bowlers to know that I am open to all comments, whether negative or positive. I am here to see that they enjoy their bowling experience and I will do whatever I can to see their needs are met," he emphasized. "The request for a suggestion box has already been submitted."

Besides knowing how a bowling alley should be run, Booth is also a certified bowling instructor. "I hope to give bowling lessons soon. In the meantime, if someone would like some help, I will be more than willing to help our patrons improve their bowling scores in whatever professional manner I can," he stated.

Originally from Fort Collins, Colorado, where he owned a bowling alley, Booth came to the area in 1988 to work as lead carpenter in the Coso Geothermal Plant. "I was about ready to pack up and go back to Colorado when I heard about this job," the new manager said. "I miss my trees and my mountains, but I'm happy here. I like the people and Ridgecrest is a nice, clean town. I hope to make Hall Memorial Lanes a place where bowlers can go to have a good time."



CHECKING IT OUT--Bill Booth, Hall Memorial Lanes' new manager, has plenty of ideas to help patrons have a more enjoyable bowling experience. Some of his ideas, like ramps for the handicap, new balls, resurfacing the lanes, have already been implemented. A variety of different league play are also being planned. Photo by PHAN Cary Brady.

No business on August 5

Maintenance closes gym annex for day

On Saturday, Aug. 5, the Gymnasium Annex will be closed to complete required maintenance on the air conditioning system. In the event that maintenance is not completed on Saturday, the annex will also close on Sunday, Aug. 6.

Regular hours of operation will commence on Monday, Aug. 7. Anyone having any type of rentals scheduled for that weekend will need to pick them up on Friday, Aug. 4.

Gymnasium personnel apologize for any inconvenience this closure will cause.

For further information, or to verify if the annex is open on Aug. 6, call NWC ext. 6542.



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Schaniel ends his career

Veteran department head earned numerous awards during long NWC tenure

(Continued from Page 1)

Ventura; and Tommy, a sophomore at Cal Poly.

As department head of the newly-created Quality Review Group, he was tasked with helping to create a new organization for NWC during the past year. "Those nine words in our new vision statement took a lot of work," he said. "They will drive a significant new thrust that is critical for our future." Eventually, this new organization will become a coach for the Center, not an oversight mission.

In addition to the reorganization, Schaniel is also proud of his involvement with the development of intelligence operations in the R&D community and rebuilding the pilot plant at Salt Wells.

In the 1960's, the labs had little access to the intelligence

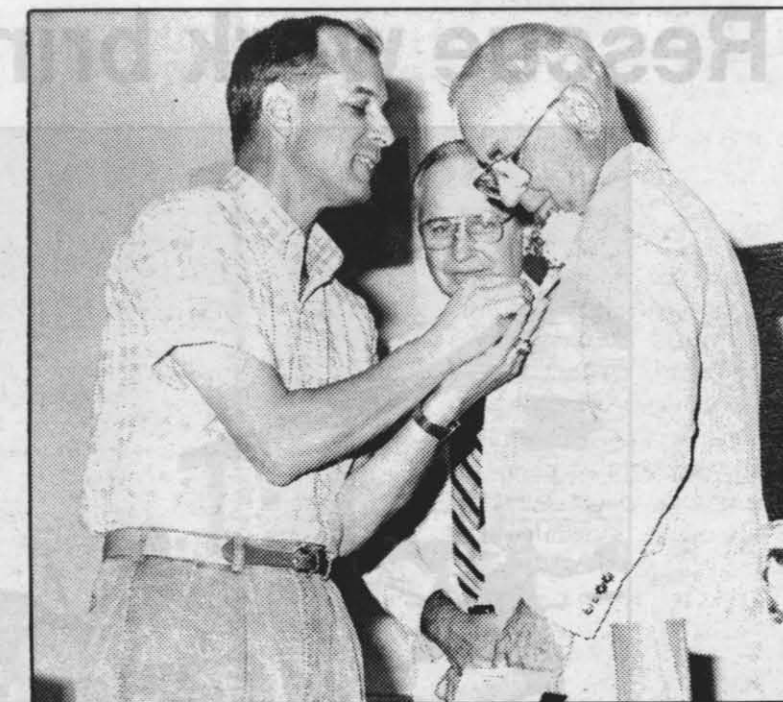
world. Under Schaniel's leadership, barriers were broken and two-way dialogues between the scientists and the intelligence community began to grow and be recognized as valuable.

This critically important work was recognized when he received the Navy Meritorious Civilian Service Award in 1978.

"The buildings at Salt Wells get stronger each year," related Schaniel. This reference is to the one foot walls in the facilities in the 40 square mile area NWC uses for explosive research. "These buildings are a national asset and could not be rebuilt, so we decided to extensively rehab them to get new capabilities from these 40-year old buildings," he said. As an indication of change and a personal reminiscence, he recounted the fact that he is the

last department head hired by former technical director McLean. "I was proud to be selected by 'The Father of the Sidewinder' as a department head and feel especially proud of the things we were able to accomplish under his long term of leadership," he said.

During his career, he has been honored with the Navy Meritorious Civilian Service Award, the L.T.E. Thompson Award, the Clarence Renne Award, and the Commander's Award for Mission Support. Prior to his Navy career, he was a radio officer with U.S. Merchant Ships for two years after attending the U.S. Maritime Service Radio School. He earned his B.A. degree in math from San Diego State and completed his Master's in Physics. He is a Registered Professional Engineer in the field of electrical engineering.



SUPERIOR SERVICE--Carl Schaniel (right) receives the Navy Civilian Superior Service Award from Capt. John Burt (left) while Bill Porter, NWC Lab Director, looks on.

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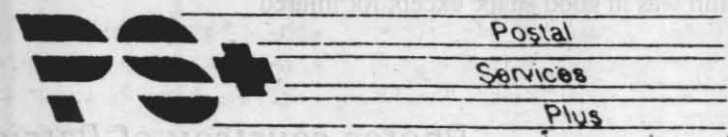
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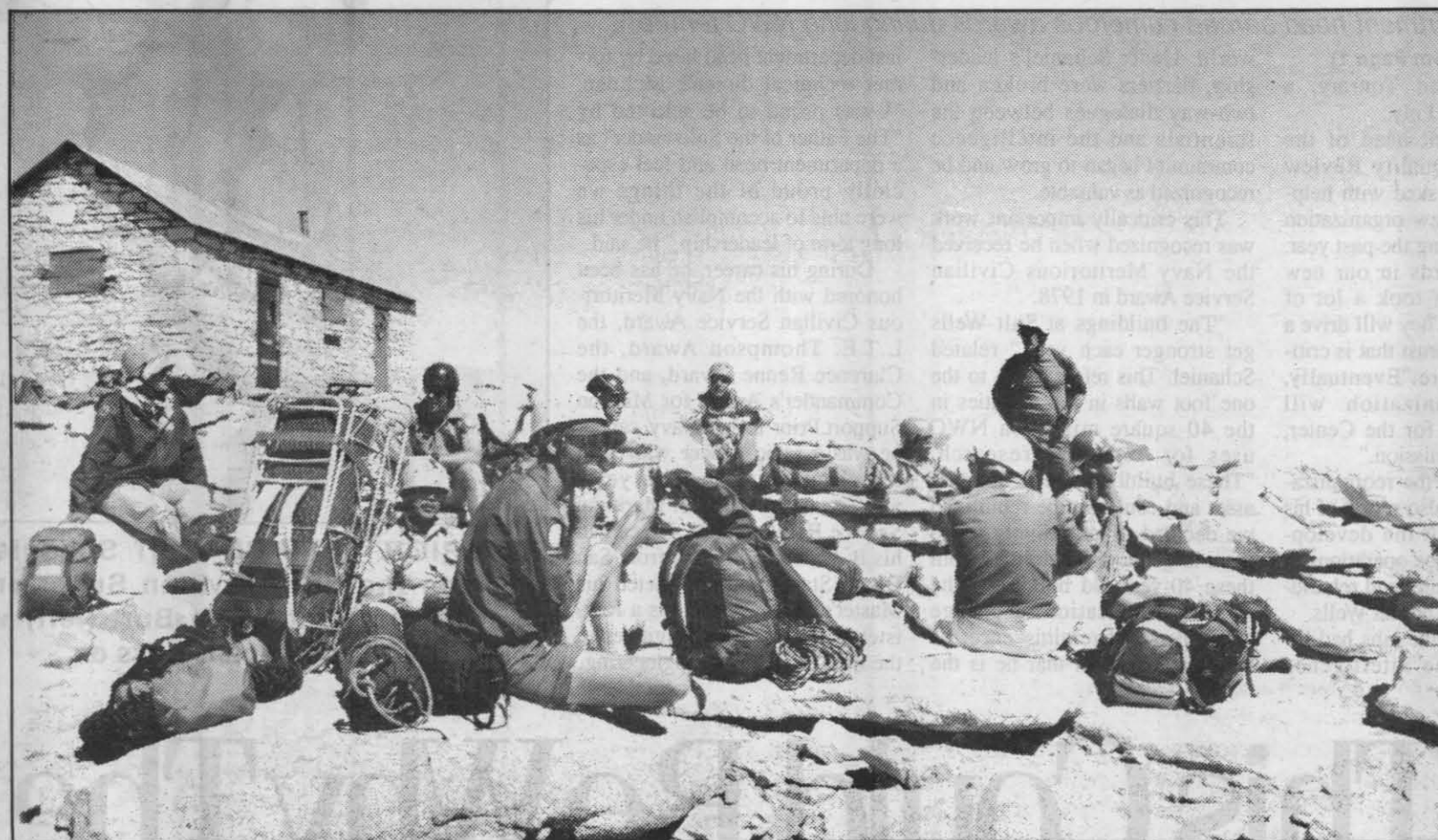
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Rescue work brings two down from the mountain peaks last week

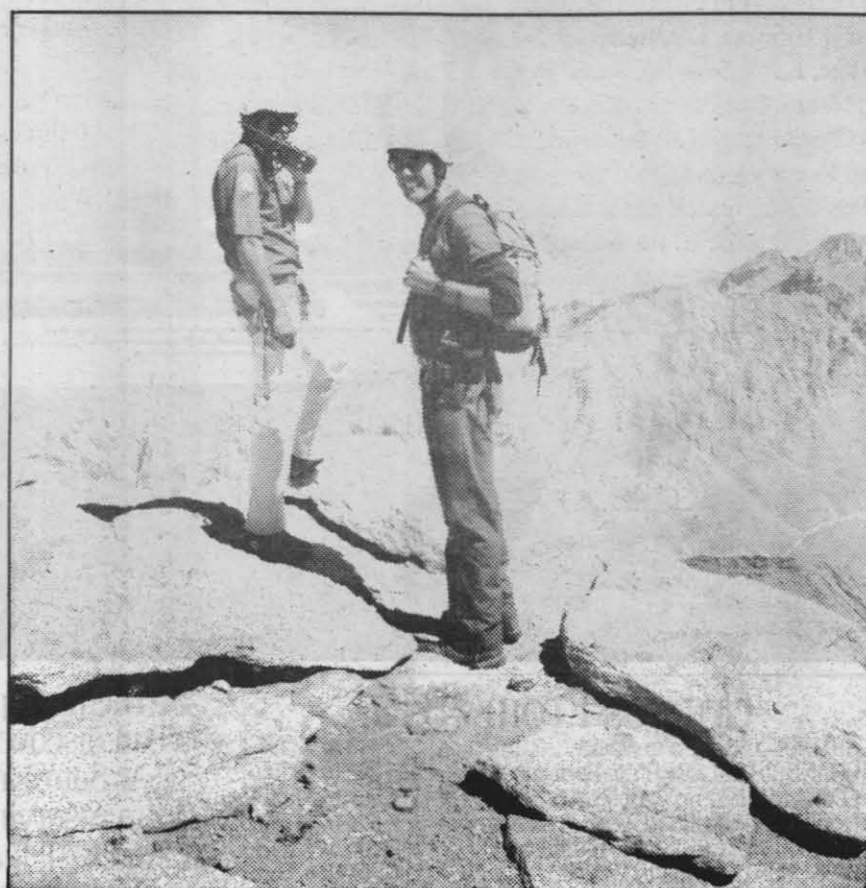


WAITING FOR THE HELO--Rescuers and the rescued sit at the top of Mt. Whitney waiting to be picked up by an Air National Guard helicopter last weekend. Three rescue teams joined forces to bring down an injured climber from the summit of the state's highest

mountain. China Lake Mountain Rescue Group personnel led the effort to assist the climber on this frequently scaled Sierra peak.



CHINOOK MISSION--Crew members of the Air National Guard Chinook helicopter prepare to board passengers the top of Mt. Whitney (above). To the right, Bart Hine and Frank Buffum of CLMRG make radio contact with the rescue helo and get ready to show the pilot the landing zone.



Members of the China Lake Mountain Rescue Group (CLMRG) were instrumental in two high country rescues last week.

Twelve CLMRG members joined personnel from the Sierra Madre Search and Rescue Team, Inyo County Search and Rescue, U.S. Forest Service and the California Air National Guard in the weekend rescue of an man hurt while climbing the East Face Route on Mt. Whitney.

Earlier, a CLMRG team headed up the rescue of a hang glider pilot injured when she crashed her hang glider at the 12,200 foot level on Mt. Tinemaha.

In the Mt. Whitney operation, rescuers were called in when Rob Weingruber and his climbing partner, Walker White, got into trouble about 500 feet below the mountain's summit. Weingruber was struck on the helmet and back by a basketball-sized rock dislodged by the rope of a climbing party above them.

A three-person CLMRG team started into the area on foot after it was reported the injured climber may have suffered a broken back and internal injuries. Hiking all night, with the aid of flashlights, the team reached Weingruber and White at about 10:30 a.m. They had taken a portable device to stabilize the spine in case the injuries were serious.

On Sunday morning, reinforcements arrived via a Forest Service helicopter, bringing personnel and equipment to Trail Camp, about 2,000 feet below the summit. The CLMRG team also discovered other nearby climbers had reached the victim with food, water and sleeping bags at about 9 a.m. that morning. This group included a doctor and a trauma nurse. They determined Weingruber had no serious injuries, but would be sore for a while and need assistance to reach the summit.

A CH-42 Chinook helicopter from G Company, California Air National Guard, based in Stockton, was needed to complete the rescue. This huge twin-rotor helo was able to land on the summit (elevation 14,495) and remove the two weary climbers, 12 rescuers and all their equipment in just one trip.

Taking part in this operation from CLMRG were Bart Hine, Daryl Hinman, Lee Lucas, Bob Huey, Tom Sakai, Dennis Burge, Larry Seibold, Frank Buffum, Phil Wilson, Steve Walker, Nancy Gray and Sheila Rockwell. The Chinook crew included CWO4 Dwayne Browning, CWO4 Kenneth Cowan, SSgt. Lee Rothrock and SP4 Rick Hendricks.

The earlier rescue of the hang glider pilot was great deal quicker because of the assistance of the Naval Weapons Center's Search and Rescue helicopter in



COMING IN--It was a strange sight, the huge twin-rotor helicopter landing on the summit of Mt. Whitney as part of the rescue effort.

transporting the CLMRG team to the Inyo County Sheriff's Department's base camp at Taboose Creek Campground. The time saved was critical in getting rescue personnel into the accident site before dark.

Linda Finco was the operations leader in the effort to rescue Liavan Mallin of Ireland. The pilot had been attempting to set a woman's record for hang gliding when she crashed. She had launched from Walt's Point near Cottonwood and was heading for Gabbs Airport in Nevada. As she attempted to gain altitude to get over 12,561-foot tall Mt. Tinemaha, she ran into turbulence, flipping the hang glider over, damaging it and putting her into a flat spin at 13,000 feet. She deployed a parachute which cushioned

knees and minor cuts and bruises. Just before dark, the team in the field used ropes to start moving her toward the summit ridge. It took more than three hours to get her up the 800 feet.

Because of the difficult terrain, and the lack of a helicopter capable of lifting a stretcher, more help was needed and the Sierra Madre SAR team was contacted for assistance. With four technical people from Sierra Madre and two more CLMRG members (Dave Silverman and Kit Antonsen), the team was complete.

Finco, after consulting via radio with Hinman, decided on the equipment needed to complete the mission. In this case it included a Stokes stretcher and wheel and a Thompson litter for crossing a steep talus slope. They estimated it



ALL ABOARD--The huge Chinook helicopter fills up with 15 people, lots of gear and heads for home. Steve Walker (foreground) was busy filming the rescue event at the top of Mt. Whitney. The helo took everyone and everything off in a single trip to the summit.

her impact on the mountain.

Mallin landed in the middle of a steep scree chute rather than one of the many sharp ridges in the area. Another glider pilot saw her crash and when he flew over to check on her, caught the same turbulence and crashed about 500 feet below her. He was uninjured and had a radio, so he called for help and began to walk out since he could not reach Mallin.

CLMRG personnel joined Inyo SAR personnel in the operation. The first rescuers reached Mallin at about 7:30 p.m. after hiking in from a helo landing zone at the 11,400 foot level. Daryl Hinman, Bart Hine, Tom Roseman and Andrew Mitchell were joined by Doug Wilson, Pat Elliot and Ellen Spiegel of the Inyo team in working on the mountain during the night.

Mallin was in good shape except for injured

would take five to six hours to move Mallin from the summit to the landing zone where a helicopter could pick her, and the rescue team, up.

It took all the manpower available to accomplish the move using a series of belays and anchors to get the stretcher safely to the landing zone by about 2 p.m.

When the Forest Service helicopter was released from fighting a fire near Aberdeen at 4 p.m., transportation from the mountain to base camp began. Mallin and a new victim, Antonsen, who broke a toe when a large rock fell on his foot during the lowering process, were the first taken off the mountain. The rescue was complete and everyone back to base camp by 6 p.m.

Photos courtesy of Patricia Gay