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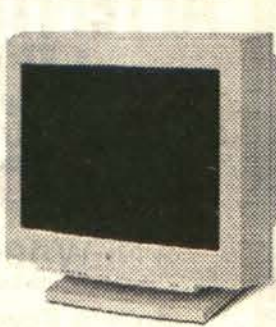
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THE ROCKETEER

THURSDAY, AUGUST 7, 1997

NAVAL AIR WARFARE CENTER WEAPONS DIVISION CHINA LAKE

VOL. 53, No. 16

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office space? 10

China Lake produces Sidewinder exercise warheads for the fleet

By Cliff Lawson
TID

When a Navy fighter pilot fires a Sidewinder air-to-air missile at a target aircraft, the purpose is to knock the target out of the sky, right? Not necessarily. In fact, the intentional avoidance of target kills is the idea behind a one-year warhead program that

is nearing completion at China Lake. While a nonlethal warhead may sound like an oxymoron, it has a very practical and cost-effective purpose.

The WDU-9A/B Sidewinder Exercise Warhead, developed at China Lake in the late 1960s, was designed to be interchangeable with the Sidewinder's tactical warhead. Although the two warheads are nearly identical in appearance, they

are radically different in function. Detonating the tactical warhead creates a large and lethal cloud of fragments, the Sidewinder's primary kill mechanism. By contrast, the exercise warhead produces a brilliant flash but virtually no fragments.

Intended for use in fleet live-firing exercises, the Exercise Warhead indicates instantly to the shooter whether the missile has passed within fuzing distance of the target. And because the Exercise Warhead is not lethal, that target — a \$250,000 BQM drone or a \$1.2 million QF-4 full-scale aircraft — may survive to fly another day. Similar results can be obtained by using telemetry warheads, but setting up a telemetry shot is an elaborate process that requires a substantial investment in ground assets and technical personnel.

Sidewinder Exercise Warheads had been out of production since the 1970s.

By 1996, the fleet's reserves of the warhead were down to less than 100. At the same time, operational requirements from the Pentagon were calling for fleet-exercise scenarios that involved Sidewinder firings against BQM targets.

"The logistics people in NAVAIR came to us," recalls Steve Ball, the aft component technical manager in China Lake's Sidewinder Project Office. "They wanted to know if we could help with this." The customer had come to the right place.

Obtaining the 400 Exercise Warheads the fleet needed was far more than a simple procurement action. The Aircraft, Ordnance and Propulsion Division's Jeff Roquemore, who heads up the Sidewinder Exercise Warhead Project, explains some of the challenges. "First, the documentation package was out of date. Several aspects of the technical data package needed updating. These included

Please see **WARHEADS**, Page 8



LOADING—Chuck Bezanson unloads pyrotechnic ingredients from a dual-cone blender at a Salt Wells facility of the Airframe, Ordnance and Propulsion Division.

BRILLIANT—More than 100 million candlepower — equivalent to a million 100-watt light bulbs — brighten the night sky at the Detonation Mechanics Test Facility in a luminosity test of the Sidewinder Exercise Warhead. Image was captured from high-speed motion picture film.



Teens present 'Minor Difficulties'

CASTLE X Teen Center presented the play "Minor Difficulties" to the School Age Care program recently at the Wreck Center. The Kinderrooz and some 35 first-through third-graders enjoyed the original play written by Andrea Cosgrove, who was the instructor of the Drama Class at Castle X. The nine-day class ended with the performance at the Wreck Center. The play was directed by Cosgrove, Katie Mills, Ivy Erickson and Kevin Anderson (BHS drama students). Starring in the play were Andrew Smosna (as the prince, left), Chelsey Brown (the princess, with broom), Cherreba Henderson (stage right), and Brandon Morgan (not shown). For information on future drama classes and other activities offered at Castle X, call 927-8336.



Photo by Barry McDonald

Weather

	High	Low	Gusts	Humidity
Wed	96	65	20	90-17%
Thurs	97	67	15	54-13%
Fri	101	64	19	42-15%
Sat	102	65	19	40-16%
Sun	101	67	19	37-14%
Mon	96	83	46	63-21%
Tues	99	66	19	60-14%
July 30 - August 5				
Wed	98	70	19	48-15%
Thurs	100	65	22	50-14%
Fri	101	62	25	42-14%
Sat	104	62	23	30-15%
Sun	106	72	24	41-16%
Mon	105	74	15	57-15%
Tues	109	75	13	34-15%

China Lake Calendar

Call the PAO Info Line at 939-0050 for current information on base events

Sunday, August 17

• Indoor swap meet at Wreck Center, 1 to 5 p.m.

Saturday, September 6

• Beach Party — band "Good Vibrations," 6:30 p.m., at the Community Pool Lanai. Call 927-4386.

Wednesday, September 10

• Restoration Advisory Board Meeting, 5:30 p.m., IWW Water Board, 500 W. Ridgcrest Blvd.

Saturday, September 13

• Free U.S. Army Show for the family, 6:30 p.m., at the NAVS Auditorium.

THE ROCKETEER

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NAWCWPNS Commander

Capt. Stanley W. Douglass
NAWS Commanding Officer

Steven F. Boster
Public Affairs Officer

Barry McDonald
Editor

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Editorial deadline: 4 p.m., Wednesday of non-flex weeks.
This deadline also applies to submittals for the NAWCWPNS Announcements contained herein; and the PAO Info Line.

Correspondence and material for THE ROCKETEER should be addressed to: Editor, THE ROCKETEER, Commander, Code 750000D, NAWCWPNS, 1 Administration Circle, China Lake, CA 93555-6001; or they may be transmitted by QuickMail to Barry McDonald. (Select CL_HQ zone, NAWCSTAFF_MC mailcenter.) Fax information to 939-2796, or call 939-3354. E-mail address is barry.mcdonald@mail.chinalake.navy.mil. THE ROCKETEER office is located in the Headquarters Building, Room 1017.

Information intended for use in PAO Info Line should be sent to Linda Lou Crosby at Code 750000D, to her QuickMail address, or she may be reached at 927-3095. The Info Line e-mail address is http://peewee.chinalake.navy.mil/stn/infoline.html.

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Advertising deadline is noon, the Friday before publication.



Housing program video is available

According to Lucinda Ludin, of the Human Resources Department, if you missed the Homeowner's Assistance Program (HAP) briefings conducted by the Army Corps of Engineers, a video is available for check out in Room 100 in the Training Center. Call Tammy Berry at 939-2451 for more information.

If you are wondering whether a VSIP/VERA makes you eligible for the program, the PMAs have a copy of the Army's legal opinion for review.

New office hours in effect at DMV

New hours went into effect yesterday at the Department of Motor Vehicles. On Wednesdays, the office is now open 9 a.m. to 5 p.m. To accommodate for the hour that office staff is in its weekly training hour, the DMV will extend Monday hours to 7 a.m. to 5 p.m.

The office will be open Tuesday, Thursday and Friday from 8 a.m. to 5 p.m.

For more information, call Cathi Teems at 446-2546.

Fall UCLA Extension short courses

This fall, UCLA Extension presents a variety of engineering-related computer and information systems short courses geared for those in the defense fields.

They include "Multirate Digital Filters and Applications," Oct. 8-10; "Advanced Digital Communications: The Search for Efficient Signaling Methods," Oct. 13-15; "Optical Fiber Communications: Techniques and Applications," Oct. 14-17; "Turbo Codes: Principles and Applications," Oct. 28-31; and "Digital Video Technology, Dec. 3-5.

UCLA Extension is also presenting courses designed for project managers and personnel, functional managers whose staff participate in projects and executives to whom project managers report. "Project Management Principles and Practice" will be held Oct. 7-10. Course meets from 8 a.m. to 5 p.m. at 10995 Leconte Avenue, Room G-33 West, Los Angeles. Tuition is \$1,295.

For further information and a complete course listing, call 310-825-3344, FAX 310-206-2815, or write: UCLA Extension, Short Course Program, 10995 Leconte Ave., Ste. 542, Los Angeles, CA 90024.

E-mail can be sent to mhenness@unex.ucla.edu. Visit the UCLA Extension web site at http://www.unex.ucla.edu/shortcourses/.

Important lawn mower safety tips

By James A. Ayers
Fire Prevention Chief

The China Lake Fire Division reports more than 62,000 persons are injured annually in lawn mower accidents. Many of these injuries are burns caused by careless use of the mower. Before using or cleaning your mower, follow these safety tips:

- Do not smoke while fueling lawn mowers. Gasoline is explosive.
- Wait for machines to cool before refueling. Wipe up spilled fuel immediately. Never fuel a running mower.
- Store and pour gasoline carefully and keep it in an approved container with a tight fitting lid.
- Check electrical mower cords for frayed and damaged spots. Frayed insulation added to a metal mower and damp or wet grass can cause severe or lethal electrical burns.
- Leave blade sharpening and electrical repairs to professionals.
- If you do your own cleaning and tune-up, disconnect the spark plug or remove it before beginning. If the blade is turned by hand, the mower can start if the spark plug connection is still intact.
- Never leave the mower without turning it off. It takes only a few seconds to run inside, and only a few seconds for the mower to cause someone serious injury.

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Pages From The Past

Aug. 14 & 21, 1987

Ground broken recently behind the Fuze and Sensors Department Building actually started the first increment of a major rehabilitation project for Michelson Laboratory. The renovated building will contain the Sidewinder Optical Range, as well as other office and laboratory space. . . With a well drilling rig in the background, a steam collecting pipeline winds its way toward Navy Geothermal Plant One, Unit One. Two more units will soon be under construction at the site near Coso Hot Springs.

Aug. 12 & 19, 1977

Navy Barracks 880 was turned over to U.S. Forest Service personnel, who were transported here in chartered buses for a brief rest from the rigors of battling the Bonita fire in the Sequoia National Forest . . . Jerry Reed, head of the Test and Evaluation Directorate's Long Range Planning Office, has been selected as the recipient of a Fellowship in Congressional Operations.

Aug. 11 & 18, 1967

Gary and Randy Buck discovered a cave on the North Ranges believed to belong to the Piute and Yokuts. Among the artifacts there was one item that didn't seem to fit — two tin cans that were sent to the Continental Can Company for data. They reported that the last year a can of that type was made was prior to the turn of the century.

Aug. 9 & 16, 1957

More than 1,200 civilian employees of the U.S. Navy in Southern California will lose their jobs in a sweeping national cut which will drop 18,000 civilians from the Navy payrolls during the next fiscal year.

Aug. 6 & 13, 1947

Work started early this week on reconversion of the old movie hut into a chapel. . . Warning Station residents to be on their guard against unscrupulous jewelers and peddlers, Ralh Dietz, president of the NOTS Rockhound Club, cited a report from the state mineralogist that a mineral, known locally as "Desert Diamond," is being sold for prices ranging up to \$50 in some jewelry settings.

COMMUNITY EVENTS

Registration for fall classes is now underway at Cerro Coso Community College. Pick up a copy of the class schedule or visit the college web site at www.cc.cc.ca.us.

The Coyote Connection telephone registration system is available at 371-9601, Monday through Thursday, from 7:30 a.m. to 9 p.m. and on Friday from 7:30 a.m. to 4:30 p.m. On-campus registration starts

Aug. 13 at 8:30 a.m. For more information please call 384-6100.

####

The China Lake/Ridgcrest Chapter of the National Contracts Management Association will present Jon McQuiston, district Kern County Supervisors at a buffet luncheon, Thursday, Aug. 14, at 11:15 a.m., at Farris' at the Heritage. McQuiston, a former China Lake employee, will speak on the Southwest Defense Alliance and the Southwest Complex proposal.

He recently returned from a trip to Washington, D.C., and will talk about the latest developments with the proposal. McQuiston will also address where we are and what we need to do as a community to protect the future of NAWCWPNS China Lake.

Cost for the luncheon is \$8 for members; \$9, non-members; and \$6, associate members. Call Jean Ann Shull 446-2957 or Yvonne Crist 499-5963 to reserve a seat.

####

The Chicago Cubs Baseball Club will be conducting a free tryout camp for ages 16 to 22 at Cerro Coso Community College's baseball field on Aug. 16. Registration begins at 9 a.m. Participants should bring appropriate practice gear, sun block and a water cooler. Scouting supervisor John "Spider" Jorgenson will be on hand to evaluate potential professional baseball players. For more information call Dick Adams at 384-1726 or Jorgenson at 909-989-3241.

####

Thirty little girls, ages 7 to 9, will com-

pete for the title of Little Miss Desert Empire Fair 1997. The only requirement is that they must complete an entry form before the deadline of August 29 to enter the contest. Entry forms can be found in the Exhibitor's Guide Book available at the fair office. For more information please call 375-8000.

Dates for the fair are Thursday, Sept. 18, from 5 to 11 p.m.; Friday, Sept. 19, from 5 p.m. to midnight; Saturday, Sept. 20, noon to midnight; and Sunday, Sept. 21, noon to 10 p.m.

####

An antique guide listing all the antique shops throughout Kern County is available free of charge at the Kern County Board of Trade, 2101 Oak Street, Bakersfield. Call 805-861-2367 for more information.

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MEN WHO CAN'T COOK BUT WANT TO. Delicious, easy-to-prepare recipes for 2 whole meals. Proven recipes include ingredients & utensils needed and step-by-step procedures. Send \$6.00 to HWS-1, P.O. Box 512, Ridgcrest, CA 93556-0512 (TFN)

Riders Needed — KV Van Pool between Weldon and China Lake. Will have 2 seats available beginning Feb. 97. Cost \$70/mo. Call 939-3157 or 939-7299 (TFN)

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25 REAL ESTATE

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Kelley Blue Book \$25,040 **No Bull Price** **\$20,900**



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Kelley Blue Book \$17,055 **No Bull Price** **\$12,500**

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Kelley Blue Book \$18,015 **No Bull Price** **\$15,500**

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Kelley Blue Book \$20,320 **No Bull Price** **\$14,900**

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Kelley Blue Book \$17,730 **No Bull Price** **\$14,900**

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#09421
Kelley Blue Book \$18,860 **No Bull Price** **\$15,900**

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MOJAVE

New vice commander

Ormsbee returns to China Lake as more than an accidental tourist

By Kathi Ramont
Staff Writer

Capt. Richard B. Ormsbee, the Weapons Division's new vice commander, reported aboard last week. Ormsbee was a student at Air War College, Maxwell Air Force Base in Montgomery, Ala., for the year previous to his assignment here. "When RAdm. Chenevey called me up and asked me if I wanted this job I jumped at it. I said — hey, it's aviation, it's Navy and it's west of the Mississippi. I love it. I think it's an exciting time, and it should be a challenging job."

He was born in New York City, but grew up in Hamilton, Montana, and Cairo, Egypt. The Navy has sent him to Guantanamo Bay, Cuba; off the coast of Vietnam where he flew search and rescue during the final evacuation; and then homeported him in exotic Southern California.

"I'm really excited to be here (China Lake and Point Mugu) now," he said last week. "When on land, I've mostly been in the San Diego area for the last 22 years, but for years I was a member of the China Lake Ski Club here and actually spent a lot of time in the area as a tourist. I've traveled a lot up and down Highway 395 going to Mammoth to ski, and really enjoy the recreation of the Owens Valley where I hunt and fish."

With only three days on the new job, Ormsbee was being swamped with technical briefings on the scope of the work done at NAWCWPNS. A range tour was scheduled for this week, and he said that once he gets settled into the office routine, he'd like to get out to meet the people at all the different work areas that make up NAWCWPNS. He will be commuting from Point Mugu at least two days a week.

"I hope to be accessible to the work force," he added. His tour with the Division is for three years.

Ormsbee graduated from the University of Montana with a bachelor of arts in English literature in 1970 and



Capt. Richard B. Ormsbee immediately joined the Navy. "I received a draft notice," he said with a smile. "And I decided Navy Air was a lot of fun, and I wanted to do that, so I went into the Navy the day after college graduation."

Following designation as a naval aviator in 1971, he was assigned to Naval Air Station Guantanamo Bay, Cuba, where he was station search-and-rescue pilot and qualified in the HH-1K (an Iroquois Bell-style of helicopter); the EU-16 and fixed wing planes C-54 and C-188. From 1975 to 1978 he went to sea in charge of training, antisubmarine warfare and personnel for the Helicopter Antisubmarine Squadron Two (HS-2).

From 1978 to 1979 Ormsbee was commander, Anti-Submarine Warfare Wing, Pacific (operations specialist for integrated systems development training program for the helicopter three squadron). And in 1979 he received

MILITARY NEWS

a master of science degree in integrated systems management from the University of Southern California.

He was a flight instructor at Helicopter Squadron Ten from 1979 to 1982. And Ormsbee went to sea from 1982 to 1984 with Helicopter Squadron Two (maintenance).

From 1984 to 1986 he was on the staff of the joint chiefs of staff, J-36, Alternate National Military Command Center (Single Integrated Operational Plan advisor). From 1986-1989 he was executive officer of Helicopter Squadron Fourteen. He was navigator aboard USS Independence from 1989 to 1991. And the end of 1991 through 1992 he was commanding officer, Helicopter Squadron Ten.

From 1992 to 1994 Ormsbee was stationed aboard USS Duluth. And 1995-1996 found him as commander of Amphibious Squadron Seven.

He has been awarded the Legion of Merit, the Joint Defense Meritorious Service Medal, the Meritorious Service Medal (three awards) the Navy Achievement Medal (three awards) and various unit citations and awards.

The new vice commander is married to Carol J. Barnard of Beirut, Lebanon. She currently lives in their family home in Coronado, Calif., and they have two adult sons Christopher, in San Diego, and Michael, who lives with his wife, Mandy, in Minneapolis.

Weapons Division personnel should get a chance to meet the captain soon. "I plan on doing some flying while I'm here," he said. "I'll be flying the Huey and later on, the shuttle."

Chaplain Ford and his cycle buddies are riding 'on the edge'

By Lt. C. Allan Ford
Assistant Command Chaplain

When motorcyclists think of the desert runs in the summer, they think of great riding — sunny days and riding into the sunset. That may be the situation on any day of the summer except for June 13, 1997, better known as "Friday the 13th." That was a "bad" day.

All Faith Chapel hosted its third annual bike run to San Simeon, Calif. We experienced all kinds of weather — high winds, hot and cold temperature changes and rain.

Upon reaching our destination, which was the coast, seeing the beautiful blue ocean made the day of "riding on the edge" all worth it. We had every kind motorcycle imaginable. There were large touring bikes, cruisers, Harleys and road racers.

There is a sense of freedom that one experiences while riding a motorcycle,

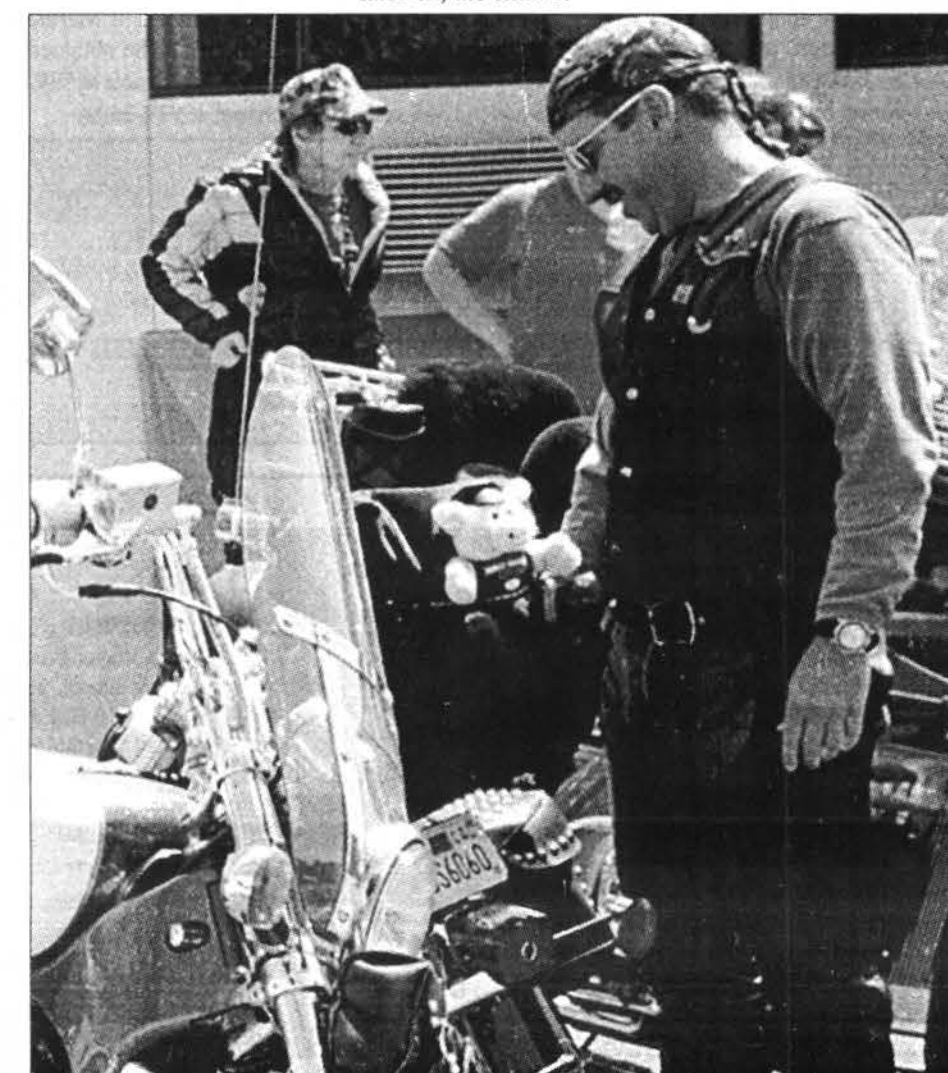
and if you can combine the joy of riding with other enthusiasts, then that is just a plus.

The Protestant congregation of the All Faith Chapel has opened up the bike run to everyone. We had military members and their dependents, retirees, chapel members and civilians from the community, including AD2 Sandy Hartkemeyer, Lt. Kevin Londke and family, AMSC Paul LaPierre and YNSR Bobbie Jo Deluca from the Naval Weapons Test Squadron; AMHAN Joe Linscheid, VX-9; MM3 Brad Stevens, ACAA Doug and Heather Hornback, Naval Air Weapons Station personnel; and my family.

Also riding along were Antonio Solomon, Lowe Farris, Al Hill, Eleanor Hartwig and Gil and Judy Baron.

Our next motorcycle run will be on Oct. 3-4. We will travel up Highway 395 to Lake Tahoe. If you'd like some information on this run, please call me at 939-3506. Until then — happy and safe riding.

EASY RIDER—Chaplain C. Allan Ford took his pet pig for a ride on the wild side on Friday, June 13. Ford, and a group of China Lake motorcycle enthusiasts, enjoyed a day of high winds, hot and cold temperature changes and rain on their ride to San Simeon.



Chapel

PREP

By LCdr. Patrick J. McCormick
Command Chaplain



What would you give to greatly enhance the probability of success in the most important area of your life — your marriage?

We often take great measures to improve our professional skills, even our skills at hobbies, but often take for granted that all will go well in the most important area of our lives.

Unfortunately, often all does not go well in the most important area of our lives. Today almost half who enter marriage will end in divorce, and all who have suffered such an experience know that it is not just the undoing of an immensely serious commitment, but it carries with it tremendous personal pain that often is never completely overcome.

Several years ago the Navy and Marine Corps embraced a program for military personnel developed at the University of Denver over many years of extensive research by the Family Development Center. It became known by the letters P.R.E.P. (Prevention and Relationship Enhancement Program).

Among all those who have completed the P.R.E.P., there has been a very significant reduction in the divorce rate, and more importantly, a greatly enhanced ability to communicate consistently and openly in their marriage.

The program, as it is offered here at NAWS, consists of four two-hour sessions put on by the Family Service Center

and the Chapel. The techniques that are taught are neither difficult nor new, but when several of these techniques are combined in a simple format, the results are often spectacular. Those who practice the principals of P.R.E.P. are often able to communicate at a level not previously possible without raising immediate defenses in one's marriage partner.

In the four sessions, couples are taught some of the more common barriers to communication, as well as a "time-out technique." Then they are taught the heart of the program, called the speaker-listener technique.

In this simple technique couples are taught how to listen. This technique compels the couples to slow down when communicating and to honestly hear each other before even thinking of a response.

This is the secret and heart of P.R.E.P. If one were to learn nothing else, they would have in this a powerful lifelong tool for marital communication.

After the speaker-listener technique is practiced, couples are also taught techniques to solve the relatively few problems that really need to be solved, and then how to identify dangerous areas in their relationship that may need additional outside help to be dealt with.

Information on the Navy and Marine Corps' P.R.E.P. program can be obtained through the Family Service Center at 939-1545 or the base chapel at 939-3506.

The Housing Office is open:
Monday — Thursday 8 a.m. to 5 p.m.
Including 11:30 a.m. to 12:30 p.m.
Non-flex Fridays from 8 a.m. to 4 p.m.
Closed flex Friday.

Army Soldier Show here Sept. 13



Photo by Kevin Kim, U.S. Army PAO

ENERGY—Soldiers strut their stuff in a song and dance number from the 1997 U.S. Army Soldier Show. See this live stage show on Saturday, Sept. 13, at 6:30 p.m. in the NAWS Auditorium. Enjoy a high-energy show for the whole family. Admission is free. For more information call 939-2602.

VX-9's Hutchinson receives medal

At Naval Weapons Test Squadron quarters July 21, Capt. John Stivers, CO, presented a Navy and Marine Corps Achievement Medal (gold star in lieu of fourth award) to PRC(AW) Patricia E. Hutchinson. "Possessing superior leadership and management ability," read Stivers from the citation signed by former CO Cdr. Dane Swanson, "Hutchinson was directly responsible for restructuring the command's weight and exercise training program. She coordinated dietary screening and counseling for 259 squadron personnel."

Recognition
AZAN Joshua T. Bolin is now qualified as an HH-1N plane captain and AEAN Joel P. Shaw qualified as an F/A-



PRC(AW) Hutchinson



AT3 Tindle



AMH3 Smith

18 plane captain. Good Conduct Awards were presented to AMS2 Randall S. Biles (second award) and AE3 Andrew K. Shannon.

Letters of appreciation were presented to PR2 Scott House, PR2 Isaac Miller and PRAN James F. Reese for their support to the high altitude parachute operation for 1st Force Reconnaissance Company, USMC. AZ3 Scott P. Webb received a letter of appreciation for his participation as honors boatswain's mate at VX-9's change of command.

Dust Devils
Junior Dust Devil of the month for June 1997 is AT3 John M. Tindle. Junior Dust Devil of the second quarter is AMH3 Mickey C. Smith.

All Faith Chapel Services

Protestant

Men's Prayer Breakfast, East Wing, Thursday 6:00 a.m.
Sunday School, Sept. - May, 1008-10 Blandy & 1903-05 Mitscher 9:00 a.m.
Sunday Worship Service, Main Chapel 10:30 a.m.
Bible Study (East Wing), Sept. - June, Wednesday 11:30 a.m.
Youth Ministry, 1907 Mitscher, Sunday 2-3:30 p.m.
Adult Bible Study, East Wing, Thursday 7:00 p.m.
Jewish (371-9478 Messages)
Weekly Services, Friday, East Wing 7:30 p.m.
Hebrew Classes, Oct. - June, Saturday, 1902 Dobb 2-5 p.m.
Religious School, Sept. - June, Sunday, 1902 Dobb 9-11 a.m.

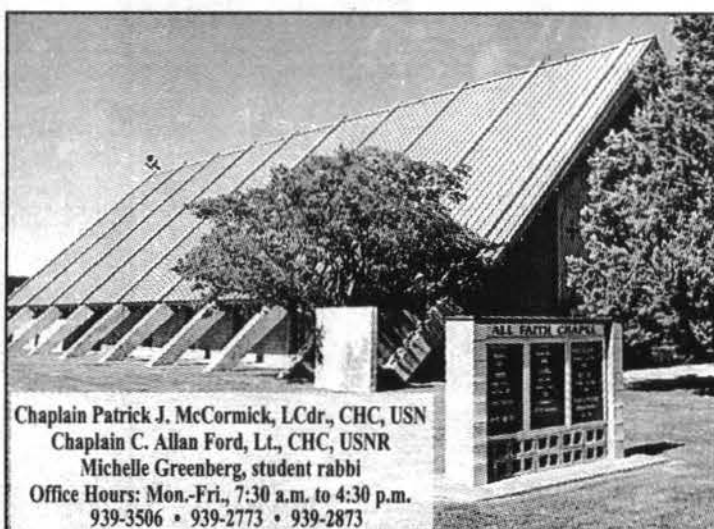
Roman Catholic

Sunday Mass, Main Chapel 9:00 a.m.
Daily Mass, Blessed Sacrament, Chapel 11:35 a.m.
Confessions, Sundays 8-8:30 a.m.
Confessions, Weekdays By appointment
Religious Education Classes, Sept. - May, Sunday, 1002 Blandy, 1008-10 Blandy & 1903-05 Mitscher 10:30 a.m.

Islamic

Jumaa Prayer, Friday (1002 Blandy) 12 p.m.

Equipment for the hearing impaired and nursery are available



Chaplain Patrick J. McCormick, LCdr., CHC, USN
Chaplain C. Allan Ford, Lt., CHC, USNR
Michelle Greenberg, student rabbi
Office Hours: Mon.-Fri., 7:30 a.m. to 4:30 p.m.
939-3506 • 939-2773 • 939-2873

Training Our People: April 1997

Feedback from 'Over the Horizon'

Employee feedback:

Training is indeed very important, and can take place in many different settings. Unfortunately, we tend to be skeptical of anything new, and deprecate it before giving it a fair chance. Having said that, let me encourage you to consider "Distance Learning." This is the title which Strayer College has given to classes conducted over e-mail. I have just begun one, and find it very beneficial.

Some instructors tend to dominate a class, not encouraging interaction. Some students are intimidated by their classmates and remain too passive. The computer provides a certain anonymity and people tend to share their ideas more readily.

A class such as this could be given during work hours, either at individual work stations or in a room such as the one we have where computer training is given. If all the students were from NAVAIR, any class could be tailored to use "real life" examples from our environment.

I suspect other schools offer this same service, but I am providing the name of a point of contact at Strayer since they are the only ones I am familiar with. His name is Dr. McCray, and he can be reached at drmcrcay@erols.com.

VAdm. Lockard's response:

You are right — people are sometimes

skeptical of new ideas. However, as you point out, new methods and processes are often very effective in terms of both cost and outcome. We must continue to challenge ourselves to consider all of the available options. I've asked Angela Brooks, director of Naval Aviation Systems TEAM University, to provide you additional information on some of the options we are currently utilizing throughout the TEAM. I commend you for your initiative to try something "new." Thanks for the feedback.

A few years ago, TEAM University (formerly NAEI) initiated a Distance Learning Enterprise Team. One objective of this team was to harness communication technologies, including e-mail or the Internet, to provide training and professional development opportunities to the work force on the job and just in time. Examples of this include access to training on CD-ROM via a corporate network for self-paced learning; the development of training courses for DAWIA; and other professional development efforts, including college programs, via Internet. Many colleges like Strayer are developing educational opportunities via e-mail. Technology is providing us with ever-growing opportunities. We will continue to explore alternative training/education opportunities for our work force.

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Competency award



Photo by Darren Galarza

R&E EXCELLENCE AWARD—Sterling Haaland, research and engineering competency director, recently presented an R&E Excellence Award to Point Mugu's Harry W. Franz Jr., of the Countermeasures Branch for his electronic warfare consulting support. According to Haaland, Franz' tenacity brought together the right mix of talented civilian, military and contractor personnel for development of a series of eight electronic warfare handbooks. He was a major writer and primary reviewer for each.

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Good stuff—cheap!**Reutilization Program means savings for your code and taxpayers**

By Walt Stepanski
Project Coordinator & Boeing Contractor

Short and sweet: This program saves everyone money. The taxpayers are getting more efficient use of their tax dollars and government agencies, including the various codes at China Lake, can make their shrinking budgets go much further.

When military bases are closed or when a major government contract or program shuts down, what happens to the equipment? The quick answer — the Defense Reutilization Marketing Office (DRMO) takes custody of the hardware and equipment, which is then auctioned off to the highest bidder.

This is not always the case, however. We are going after this equipment and reutilizing it whenever possible. We have found that there is a lot of good usable equipment out there at a very reasonable cost.

China Lake's Navy Cal Lab has a program in place to aggressively identify and acquire equipment. In an era of shrinking budgets and cutbacks in program funding, obtaining this equipment at a fraction of its original cost makes sense.

In addition to its normal calibration and repair services, the Cal Lab's Reutilization Program works closely with the local DRMO and the Supply Department to locate and bring to the Station a variety of equipment and hardware from DRMOs throughout the world. This equipment is made available to any government organization or code.

Using the latest technologies, we are able to search, worldwide, the government supply databases, and if

something that our customers are looking for, or we deem as highly desirable equipment, shows up, we then make arrangements with the supply department to have it shipped to China Lake.

When the item arrives, in the case of electronic equipment, it is thoroughly inspected, checked out and calibrated (if required), prior to being released to the requesting code. Other types of hardware and equipment are received, inspected and released to the requesting code if deemed serviceable.

We also acquire items on speculation, based partly on special codes that identify the condition of the equip-

Another advantage to using this service is that the item may be here now, ready to go. When someone needs it now, they get it now.

ment and on previous Cal Lab experience.

Sometimes we get unserviceable items, not worth repairing, which we, in turn, excess and absorb the expense involved. Sometimes we find items that are brand new, in the box, that never got put into service. Most of the time, we bring in items that are used but good, and once calibrated, are ready for service at a minimal cost to our customer. This "minimal cost" is comprised of the cost of shipping, a charge to calibrate (when required), a small reutilization fee and any repairs needed.

When a piece of electronic equipment is received that needs repair, the Cal Lab will attempt to repair it.

Normally, if the equipment cannot be repaired in two hours, it is returned to DRMO. In the end, the cost of most equipment is pennies on the dollar compared to the original purchase price.

Some examples of the types of equipment and cost a code might see include HP rack-mounted power supplies at an average cost of \$300; pulse generators at an average \$375, power meters around \$750 and dual time-based generators around \$550.

In the past, a complete video system, including a monitor, VCR, color camera, remote controller, keyboard (video inserter), pan and tilt and the camera housing, were obtained by a local code for \$1,300. A complete telemetry receiver was obtained by a local code for \$2,500.

Other items include frequency counters, amplifiers, power sensors, digital voltage meters, directional couplers, oscilloscopes, logic analyzers, comparators, electronic equipment racks and much more.

Another advantage to using our service is that the item may be here now, ready to go. We keep an eye out for the most commonly used equipment and try to have it on hand, so when someone needs it now, they get it now.

The Navy Calibration Laboratory is located in Building 01027 at the west end of Blandly Ave. You are welcome to stop by anytime during normal working hours and see what is currently on hand, and see if we can fill your needs.

From your computer you can use the new "CalLab Hotline" QuickMail address to request information, or call the lab at 927-1018.

1997 Sailor of the Cruise honored at quarters

By CW02 Glenn Risley
Public Affairs Officer

During afternoon quarters on April 26, Capt. Barry Douglas, commanding officer of Naval Reserve NAWS 0176, gave four departing reservists letters of appreciation.

Cdr. John Gwynn, after serving six years with the local unit, was recognized for duty as training officer and projects officer. He will be the new CO of NAWS 0376 augmenting Point Mugu, Calif.

CWO2 Dale Metz served 18 years with NAWS 0176, giving him the longest tenure to date. He was recognized for his efforts as ground electronics supervisor, budget and fiscal liaison and supply officer. Metz will be assigned to Commander Naval Surface Force, Pacific, Detachment 219 at Coronado, Calif.

YNC Kathy Vanbuskirk spent six years with the China Lake unit. She worked as correspondence supervisor and spent many extra hours on the fitness reports and evaluations. Vanbuskirk has been assigned to CV 176, a unit at Point Mugu.

SKC Annie Andersen was recognized for her efforts as the Supply Department's leading chief petty officer.

While she was assigned here, her department was responsible for saving the gaining commands, NAWS and the Naval Weapons Test Squadron, more than \$75,000. Through her contacts in the regional DRMO, Andersen was able to outfit this command's administrative offices and training classrooms with badly needed furniture. During her 11 years at China Lake, Andersen was one of 12 reservists recalled to active duty during Desert Shield/Desert Storm. She was assigned to Sicily for nine months. Andersen is also assigned to COMNAV-SURFPAC 219.

While these people will be missed, the reserves continue their support of NWS. In a letter included in the unit's Plan of the Month, AVCM Joe Law, the unit's maintenance control master chief, urged unit members to actively seek prior service personnel with experience in aviation ratings to consider affiliation with the reserves, this unit especially.

"The Navy is hiring," Law said. The NAWS 0176 unit can currently use AMs, ATs, AEs and PRs. Anyone wishing more information is encouraged to contact the reserve recruiter at 446-4217.

At June quarters, **AO2 Bonnie Turney** was frocked to her present pay grade.

At July quarters, **AT1 David Upton** reenlisted for four years. Capt.(sel.) Russ

Bates, NAWS 0176 executive officer, did the honors.

AC2 Sandra Szpynda received her first Naval Reserve good conduct Award and **AO2 Rangist Spotts** was frocked to his new pay grade.

AO2 Aaron Richard Tuberg was recently selected as 1997 Sailor of the Cruise for NAWS 0176. His pre-cruise planning and expert supervision of the reserve ordnance work center enabled the reservists to be involved with all F/A-18 weapon loading evolutions.

AK1 Tony Hernandez was recently selected for chief.



AO2 Tuberg

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Information management steering group celebrates a long-sought goal

By Richard Bagge
Information Management Department

Funding hits have affected most programs, projects and organizations within NAWCWPNS. No one has been spared the budget bite, including the Information Management Department (IMD). Today's economic realities have dealt a hefty blow, and government and industry are feeling the pain.

Despite the harsh budgetary realities, the Information Management Steering Group (IMSG) recently joined the department in celebrating a long sought-after goal. By taking advantage of the federal government's desire to improve on information technology (IT), and the need for the Weapons Division to support the NAVAIR architecture initiatives, a new way of doing business was adopted. The IMSG recently determined IMD's scope of work and allocated a budget to correspond directly to the requirements of its customers.

"Doing more with less" aren't just buzz words, they are a means to survival. The group gathered last Tuesday at the Barefoot Bar to celebrate the realization of their new way of doing business.

In an effort to improve the acquisition and use of information technology, the federal government requires the manage-

ment of information technology to directly support strategic missions and improve planning and investment practices.

The Information Technology Management Reform Act (ITMRA), the Government Performance Results Act (GPRA) and the Paperwork Reduction Act provide the framework by which these changes can be implemented. The ITMRA requires capital planning and investment control, performance-based and results-based management, improvement of acquisition, designation of an agency chief information officer and bet-

ter financial accountability practices. The GPRA requires that all agencies perform strategic planning, annual performance plans and results reporting.

Another impetus behind the desire to improve information technology management involves the NAVAIR architecture initiatives. These focus on improving the level of interoperability and flow of information throughout the Naval Aviation Systems Team.

In response to the NAVAIR initiatives, the Division will be required to generate long-range plans, coordinated among the competencies and managed

by a centralized body.

The Information Management Board (IMB) and IMSG were established to improve this management. In November 1996, a customer focus group was assembled to define the roles and responsibilities of the board and steering group. Following a brief to the Division Resources Management Board, the concept was approved.

The newly assembled group met for the first time in February to begin work on developing and approving a charter; developing work prioritization criteria;

Continued on next page



Photo by Barry McDonald

CELEBRATING a new way of doing business are (back row l-r) Larry Neisler, Frank Malabarba, Stu Breil, Mark Behrends, Neil McCarthy, Ray Boswell and Jay Crawford. Middle row are Debbie Clark, Dennis Rowell, John Cavin, Richard Bagge, Larry Hail, Sandy Beach, Dot Leuallen, Kathy Kenady, Nancy Hodge and Debra Schlick. Front row are Helen Tubbs, Kathleen Laceyfield, Jane Grant, Martha Faron, Patty Hail, Bonnie Jones and Tempest Schardt.

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During the first two years of production, the DSTAR system has been enhanced in response to customer needs. Electronic data as well as paper pages can be entered into the file room. Files from nine-track magnetic tape, tape cartridges and data delivered through FTP can be reformatted for searching and viewing and can be stored in DSTAR. In addition to printing images and text, items may be transferred to tape cartridges or CD-ROM disks for the customer.

The DSTAR Operations Team, led by David Olanyk, includes Wayne Thompson and Ken Pott. General purpose scanning operator support is provided by Boeing Information Services, Inc., through the BASS contract. DSTAR is an "open system" built from commercial off-the-shelf hardware and software. This ensures that data can be moved to and from DSTAR without the cost of buying proprietary equipment or software applications.

"DSTAR was especially designed to receive and store a large volume of data," said Olanyk. "Because of the distributed nature of the system and the virtually unlimited storage and memory available to us, we can process many documents simultaneously, and we can store them almost indefinitely at an extremely low cost."

Perhaps the most dazzling part of the system's storage, according to Olanyk, is the Terabyte jukebox. According to industry sources, a Terabyte would equal one billion business letters taking up 150 miles of bookshelf space. Within DSTAR's Terabyte jukebox the system makes a sound some have described as "whale song" as the robot arm searches for the correct disk and then slides it into the drive to be read.

The system offers a wide (and growing)

variety of services to its users. They include scanning all kinds of paper, from postcards through multi-part forms, including charge card receipts, and carbon paper; importing digital data from nine-track magnetic tapes, floppies and tape cartridges, as well as electronically transmitted (FTP'd) files; providing full text indexing of many forms of text, including typed (and, occasionally, hand-printed) originals; offering a "Launch Association" allowing users to tailor their accounts to copy a file to the word processor or graphic viewer they prefer.

"Our clients help us discover new system functions," Olanyk said, "when they ask us if we can give them their document in the form they need most. For example, we provide 'Scanning-To-Go' services for single small documents. You can bring a hard-copy document, we'll have it scanned and imported into a word processor or spreadsheet. We'll do the preliminary formatting and proofreading for you, and we can deliver it on a floppy or through e-mail, usually within only a few hours, or at most the following day, depending on the legibility and size of the original. That way you can travel with a disk instead of a briefcase full of paper."

Another popular new service is providing data on CD-ROM disk. These disks are ISO 9660 format, meaning that they may be read by Macintosh and MS-Windows systems as well as most UNIX and VAX systems. Several customers have discovered that this is a cost-efficient, low-risk way to store data that must be kept but will not be read frequently. GraphicConverter for the Macintosh is a shareware utility to view the TIFF image files on the CD-ROM. Registration of this shareware utility is available through the PC-Lab for \$30 per machine.

During the past year, DSTAR scanning operators have learned to scan color photos to produce faithful copies of the originals. Two-sided pages are scanned with the system's powerful Ricoh duplex scanners, which use two cameras simultaneously as each page passes between them.

"We continue to be excited about the increasing uses for DSTAR, both here and at other NAWCWPNS areas," Olanyk said. "We have demonstrated our ability to reach the server from Point Mugu. A client can

be far away from China Lake and can still query the system and read their files. We have installed our client software on MS-Windows and Macintosh computers and UNIX work stations, and we are currently producing CD-ROM disks efficiently for customers who need that form of storage. We are in the process of constructing a web access interface for accessing the file rooms from a web browser and for security will require a user name and password. In fact, the first file room to be accessed by this alternative method should be the Technical Library via their home page."

Some of the customers for the DSTAR system include: Comptroller (payroll and cost accounting); Technical Library; Sidewinder; Human Resources; Range Test Planning; and the RADAR group of F/A-18.

The DSTAR system is a non-profit service. Costs charged to the customer must cover, but not exceed, the costs involved in operating the system. Currently, the customer is charged \$61 per hour for scanning the files that will populate the file room. This charge includes all of the processing, including the creation of the text file that contains the words that can be searched. Each client account is \$200 per year prorated weekly and provides unlimited access to the client's data. Ongoing on-line storage cost is seven cents per image page per year pro-rated weekly. (Note: An image page is defined as an average file size of 55Kb of disk storage, which is not necessarily a physical page in a document.) Scan-To-Go service is \$61 per hour.

For further information or a demonstration of the DSTAR system, you are invited to contact the IMD Customer Service Center at 939-1200 or David Olanyk at 939-3879.

(This article was written with contributions by Elsa Pendleton, Teresa Daugherty and David Olanyk.)



DSTAR—Document storage and retrieval system at Michelson Lab includes a DEC Alpha 2100 server (the primary DSTAR server) and three jukeboxes. Other data storage is in the form of Level 5 RAID (Redundant Array of Inexpensive Disks).

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DSTAR means high-tech solutions for document storage and retrieval

Paper — it's everywhere. It is stuffed into file cabinets, it slides to the floor from untidy stacks on desktops, it gets folded and coffee-stained and torn. Yet paper documents hold irreplaceable information for NAWCWPNS' scientists, engineers and managers.

NAWCWPNS' newest high-tech imaging system, DSTAR (Document Storage And Retrieval) transforms masses of paper into electronic form. You now have the capability of storing the contents of entire file cabinets as computer files. From your work station, you can find the exact document or map or page or photo you need. You can view, copy and print only the data you need.

Do you need to save file drawers full of paper documenting a project that is closing? Do you want to capture and retain the documentation that a retiring engineer or manager may throw away? Do you need to make speedy decisions about what to save and what to toss when you run out of storage space? DSTAR allows you to move all of this documentation onto the DSTAR system for you to examine and discard in an orderly manner, or to CD-ROM disks for long-term storage.

The typical DSTAR subscriber begins by designating the paper that will be transferred to computer files; because the system is capable of scanning many hundreds of pages in a day, it is usually



BAGS OF SHREDDED PAPER from five four-drawer file cabinets litter the floor of the DSTAR Center. Data from the files is now stored on three CD-ROMs. Team members include civil service and Boeing employees (from left to right) Bunny Ziegler, Janet McTeer, Kathy Smith, Meris Roark, Elsa Pendleton, David Olanyk (holding CDs) and Wayne Thompson.

cheaper to scan entire collections instead of spending valuable work hours selecting pages to be saved. The system includes ten scanning stations so that several customers can be served simultaneously. The various scanners have the

capability to create output from black and white to 24-bit color images, with originals sized up to 11 X 17 inches. The DSTAR scanner operators have been trained to "tune" the scanning operation to preserve the highest quality image consistent with efficient throughput.

As each page is scanned, two files are created: an image file and a text file. The image file is a TIFF (tagged image file format, an industry-wide standard) and is the picture of the page, including signatures, handwritten notes and other markings that may be significant for the user. The text file, created automatically by the OCR (optical character recognition) software, is standard ASCII, which can be copied into word processors if desired. The files are compressed and stored on the immense storage devices at the server location in the Computer Wing of Michelson Lab.

The storage devices are managed by two multi-CPU UNIX servers. The pri-

mary server (a DEC Alpha 2100) hosts two Magneto-Optical (M-O) jukeboxes with maximum capacities of 114.4 and 119.6 Gigabytes (G) and a 500-disk CD-ROM jukebox. Each of these jukeboxes has four drives and can serve multiple simultaneous requests. This server also has two RAID (redundant array of inexpensive disks) drives with capacities of 10 and 26 G respectively. The secondary server (Sun SPARC server 1000E) hosts two 100-G RAID's and the Terabyte M-O jukebox.

The computer files in each DSTAR account are displayed as they would be arranged in a file room with many file cabinets, each containing several drawers. Within each drawer are folders; each folder may contain many documents. The file room owner may designate the structure and names of each level.

Your subscriber account entitles you to unlimited access to the files from your Macintosh, MS-Windows (Windows

Continued from previous page

developing a process to select the department's work; and executing the process.

The charter was signed by Weapons Division Executive Director Sterling Haaland in March.

The IMSG began the process of prioritizing the department's FY98 work and budget by requiring that project proposals be submitted by May 15. The group and department project review committee reviewed each proposal with the cognizant project manager, or competency head, to gain a better understanding of the proposed work and its impact on NAWCWPNS' mission. Working from a list of scores assigned during the initial reviews, the IMSG further refined the list and requested impact information from the department on any changes they proposed in scope or budget. The group will present its recommendations for approval to the board.

The steering group will also work toward fulfilling its chartered responsibilities, which include:

- Developing and sustaining an IT review, prioritization and monitoring process for IM programs;

- Reviewing and prioritizing IT infrastructure as well as the department's product, service projects and budget.

- Establishing projects to implement NAVAIR enterprise architecture requirements;

- Developing a Division information technology strategic plan that includes technical, administrative and funding strategies;

- Overseeing the development of IT policy, standards, training recommendations and other IM program support requirements consistent with NAVAIR and Navy IT policy and standards; and
- Assisting the screening committee in prioritizing capital purchase program investments.

For more information, or to request a copy of the charter, contact your competency's IMSG representative: 2.0, Kathy Kenady at 939-8150; 3.0, Lily Gonzalez at 484-6710; 4.0, Frank Malabarba at 989-1922; 5.0, Dr. Neil McCarthy at 989-9201; 7.0, Jane Grant at 939-8102; 8.0D, John Cavin at 939-9439; or 8.0E, Bryan Caudle at 989-8068.

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WARHEADS from Page 1

the materials list and fabrication details relating to the warhead coupling grooves, which had been changed since the previous production run 20 years earlier. When it was developed in the '60s, the F/A-18 didn't even exist."

"Second, the customer did not want a redesign," says Roquemore, "but we needed to ensure that the warhead was compatible with the current Sidewinder configuration." The Materials Engineering Section in the Research and Technology Group assisted in bringing the 30-year-old materials specifications in line with current technology.

The need for concurrent engineering was driven by the stringent production schedule. Engineers, draftsmen and shop personnel worked together to complete the technical data package. The final hardware modifications were completed in early April to support the first deliveries.

Using concurrent engineering paid off in better quality and reduced cost. For example, a machinist suggested that the gas-tungsten arc-welding process called for in the original documentation package could be replaced by a laser-welding technique. The change was incorporated into the drawing package. That single step not only increased the reliability of the warhead by causing less distortion than the arc weld, but also cut the time required for the fixturing and welding by about two

thirds. That translated into a \$13,000 savings on welding costs alone. "We all worked together and we all had the same goal — to deliver the best product at the best price," notes the machine shop's Bob Steele.

"Given the scope of the effort and the short time frame, the 400 warheads had to be produced locally," explains Roquemore. "Between Mich Lab and Salt Wells, we had everything required to do the job efficiently and meet the schedule." Facilities of the Airframe, Ordnance and Propulsion Division were used to blend the pyrotechnic fill material and load it into the warheads. First-article performance testing was conducted at the Detonation Mechanics Test Facility.

Meeting the exercise-warhead luminosity requirements was a critical measure of success for the technical-data-package update and the production effort. To determine luminosity, China Lake engineers fired four warheads, one at night and three during the day, at the Detonation Mechanics Test Facility. For each test, two different types of photometers were used to measure the luminosity.

The warhead specifications called for a peak luminosity of 15 million candle power and for the flash to be at least one million candle power for a duration of 50 milliseconds or longer. Peak luminosity on the four warheads tested ranged from 103 to 180 million candle power. The duration of one million candlepower lumi-

nosity ranged from 180 milliseconds to 200+ milliseconds.

First Article Acceptance Testing for the Sidewinder warheads took place in June. The test units all met or surpassed required performance. On July 7, the first production warheads were shipped to the Naval Weapons Station Yorktown to be assembled as NATM-9M-1s. These NATMs will be fired in an upcoming fleet exercise near Puerto Rico.

Fabrication of all hardware has now been completed, and plating and painting are under way. As the warheads are completed, they are loaded, capped and packaged for shipment.

The efforts of the Exercise Warhead Team have resulted in the ability to deliver 500 warheads — a 25 percent increase over the original requirement — within the agreed-on budget and schedule. To date, 231 assemblies have been loaded; these and the remaining 269 will be shipped in mid September to Naval Weapons Stations Yorktown and Fallbrook.

"Successfully completing a project this challenging takes a dedicated team of professionals," states Roquemore. His team depended on China Lake's unique combination of R&D, T&E and manufacturing facilities and expertise. The result of the team's effort is a vitally needed system that is being produced cost effectively and delivered to the fleet.

Building a warhead — no simple matter

By Cliff Lawson
TID

The Sidewinder Exercise Warhead was fabricated in the Michelson Laboratory machine shop — the very same shop where the original Sidewinder warheads were built in the early 1950s. The hardware for the new warhead is 5 inches in diameter, 13 inches long, and consists essentially of a booster tube within a steel casing, plus a couple of endcaps. But building one was no simple matter!

Before the first piece of stock was ordered, experts from the machine shop examined the drawing package exhaustively and consulted with the engineers who were updating the technical data package. Many of the suggestions from shop personnel regarding materials and procedures were incorporated in the updated package.

Led by Leonard Holmes, of the Weapons Prototype Division, the machine-shop's fabrication team included two welders (one conventional and one laser), one welding engineer, one sheet-metal mechanic, one die maker, six machinists, two inspectors, and one nondestructive evaluation (x-ray) technician.

Five vendors from around the country supplied the necessary MIL-SPEC materials. For every vendor-supplied item, three quotes were obtained to ensure the best price to the government.

Eight sets of drawings controlled how the parts were manufactured. Another three drawing sheets detailed the assembly procedures.

Dimensional tolerances varied depending on the function and location

of the parts. For example, the overall length of the warhead, between the ends of the forward and aft mating slots, called for a comfortable tolerance of 0.010 inch. By contrast, an angle on the forward mating groove required a tolerance of 0.0004 inch, and the width of that groove had to be accurate to within 0.0001 inch — or about 1/10 the thickness of a human hair.

Standard Sidewinder production-warhead gauges were used to check tolerances. For the crimped end cover, which is unique to the exercise warhead, the machine shop designed and fabricated a gauge to ensure the cap's outside diameter and flatness would allow proper mating to the Sidewinder body.

Sequencing the operations was critical. For example, the end caps and main housing were rough turned, then welded together, then turned to final tolerance. This double-turning process was necessary, because the distortion caused by the welding could have warped the parts out of final tolerance.

Each of the nine parts that went into the warhead received a 100-percent first-article-inspection. In-process checks were made throughout the manufacturing process to ensure that tolerances were being held. Random samples from the completed production run were also subjected to 100-percent inspection. Every weld in every warhead was nondestructively examined by x-ray, and selected samples were cut open for visual inspection to ensure consistent quality — the kind of quality that has been the hallmark of the China Lake Machine Shop for more than half a century.

China Lake's Steve Bouthillier and Ross Seybold develop tamper proof computer interface switches to keep the bad guys out of your systems

Illegal information gathering from government and private industry computer systems is at an all time high," explained Stephen Bouthillier, assistant special security officer for sensitive compartmented information (SCI) automated data processing and physical security. "Information brokers collect and deal in a wide range of data — from personal and financial information to commercial proprietary trade secrets and government information. The data available in cyberspace has created a virtual worldwide information shopping center. It really is big business."

With that in mind, NAWCWPNS recently entered into a three-year cooperative research and development agreement (CRADA) for keeping intruders from accessing information from an individual's desktop and network.

It was signed recently by RAdm. Jack V. Chenevey, NAWCWPNS commander, and members of Radionics, Inc., of Salinas, Calif.; Market Central, Inc., of Houston, Pa.; NAWCWPNS SCI community; and the Technology Transfer Office. "This is truly a unique computer security concept, which will expand the existing Radionics Readykey Access Control System," said Bouthillier.

The original Readykey system currently addresses physical security requirements of authorized persons entering a building or a work space through a physical doorway. A security manager or administrator can set the time, entrance to be used and other privilege parameters to a building or workspace. The Readykey system has the capability of identifying individual users, which is impossible using electronic cipher locks. "We can now offer these same positive control capabilities to computer systems and networks," said Ross Seybold, an intrusion detection systems lead technician from the Physical Security Office, who works on alarm systems.

The CRADA will expand the original idea of controlled office access to address computer security requirements to control access to automated information system platforms and network connections.

"The expanded Readykey computer security capabilities," explained Bouthillier, "which were driven by the requirements of the NAWCWPNS China Lake SCI community, focused on two points of an ever-evolving information system technology that will never change — control of power to a computer platform and control of external connections from a computer platform to networks. The computer security requirements of password protection, authentication, discretionary access control, audit trail and network configuration management, are directly tied to each computer system's power supply and external network connections, which are monitored and controlled by a Readykey System administrator."

"What this means is, these basic computer security features no longer reside on each individual computer platform. So as technology progresses with new editions to software applications and upgrades to operating systems, the Readykey computer security system never requires upgrading. By focusing on a computer system's need for power and network connections, this security product doesn't turn to flashware because of changes to information system technology."

"This is better than a firewall. One user's unauthorized

modem can blow the security integrity of a local area network (LAN) or wide area network protected by a firewall. Up to 18,000 users can be put on one system and you won't need computer security software, which often conflicts with other software and slows the performance of the machine."

Radionics is providing the technical hardware and software expertise to expand their product's access control

tion. Once in this position, the internal LAN is protected from an outside intruder coming into the LAN by a physical gap, which is the dead-bolt feature created by the network switch.

The user, again, presents his credential to the proximity reader located on the network switch. Again, the system identifies who the user is via an eight-digit, alpha numeric password, randomly generated at the time of enrollment

by the system administrator and imbedded in the reusable credential. Based on authorization, the user's name, the time, date and the network link are sent to the system administrator, and the network connection is made. If the user is not authorized, an alarm is generated and sent to the system administrator, telling him the time, date, computer and name of user attempting entry. All of the user information can be archived and retrieved at any time by the administrator for permanent storage.

NAWCWPNS personnel will work with the two companies to make sure that the system and computer interface switches are operative, correct and tamper proof. "Ross Seybold, Syd Blowers (another China Lake alarm technician) and I worked together on the original concept," said Bouthillier.

Sulkowski added, "China Lake constructed the first prototype power switch and network data relay switch to prove viability of the concept. Market Central added co-design features and production packaging development to make the switches a truly universal product that fits all computer platforms. As an added benefit, the power switch design alone will save daily wear and tear on computer hardware, because it will ultimately replace the physical on/off switch on the computer."

"The application possibilities are endless and the need for this protection in the information age in both the government and commercial sectors is tremendous," added Dodge.

"Packaging basic computer security requirements under the Readykey concept also frees up available computer memory that could be better utilized by National Security Agency and National Institute Standards Technology encryption chip methodology to further protect vital government and commercial information while its being transferred in cyberspace," added Bouthillier.

The Readykey system will supervise the access to a multitude of differing automated information system platforms (i.e. Macintosh, DOS-based and UNIX, etc.) and yet remain as invisible as possible to the connected CPU/user community.

The Federal Technology Transfer Act of 1986 provides for making federal laboratories' developments accessible to private industry and to state and local governments and for the improvement of economic, environmental and social well-being of the United States by stimulating the civil utilization of federally-funded technology developments.

"NAWCWPNS has extensive expertise and information in computer security," said Bouthillier. "This low-cost, low-impact security system is going to make life easier for the user as well as system security administrators. And in keeping with this technology transfer act, we're going to make this expertise and technology available for use in the public sector."



Photo by Kathi Ramont

CRADA SIGNING—(front, l-r) Vic Sulkowski, president of Market Central, Inc.; Brian Dodge, vice president of government operations at Radionics, Inc.; and (rear l-r) China Lake's Ross Seybold, IDS technician; and Stephen Bouthillier, assistant special security officer for SCI ADP/Physical Security; and members of the Technology Transfer Office signed a cooperative research and development agreement to expand the existing Radionics Readykey Access Control System. Not pictured are John Freeman and Jim Kneppshield, of the NAWCWPNS SCI Intelligence community.

functions by interfacing three different computer platform switches that control electric power and network connections to an authorized user. Market Central, Inc., and NAWCWPNS are co-designing and developing the three computer platform switches for which government patents have been applied.

Market Central President Vic Sulkowski said at the CRADA signing, "We worked with Steve's first design of the Secure Network Switch, which is manufactured by us and is currently carried in Blackbox Corporation's product line. We're excited with taking the Secure Switch's dead-bolt network protection capabilities and interfacing it with the two additional switches to the Radionics Readykey system for a total computer security package. Just point us in the direction, and we'll technically support your needs."

According to Radionics' Vice President of Government Operations Brian Dodge, the system looks at each information system platform as a building that houses information and each network as another building. The system uses hardware and software to determine when and where a user may enter the system or systems. When a user presents his credential/photo badge to a proximity reader located on the computer, the computer power is turned on if the user is authorized. When a user is required to make a connection to an outside network, the user physically turns the secure network switch to the outside posi-



NONLETHAL—These Sidewinder Exercise Warheads (5x13"), packed for shipment to the fleet, will mark would-be kills while saving targets.

Recently added/hot items:

U.S. Robotics PalmPilot Pro: super data sync with your PC or Mac 2500 addr., 4-yr. appoint., 750 to-do items*, 750 memos, 100 e-mail messages, backlit 80201U

U.S. Robotics 56K modem: internal modem, 5-year warranty. 1787

Jaz Traveller adapt.: connect a portable SCSI Jaz to std. IBM printer port 10231

Jaz drives, external 1GB re- movable 10134; data cart. Mac 10170, PC 10151, carry case 10182

Seagate 23GB wide SCSI disk drive ST423451W, same but Ultra SCSI ST423451N. 9GB wide-SCSI disk drive ST19171W. Super prices.

*Then, who'd want 750 to-do items?

ADP SPEDI News

adpspedi@computingtech.com

Popular & sort-of-new items:

HP LaserJet 5M is a PostScript 600x600, w/JetDirect card w/ready-to-use AppleTalk & Ethernet C3917A

Zip Drives, 100MB (200MB compressed) SCSI external MFPM 10011, parallel external 10012. Zip media: 100MB Mac 10019, PC 10021 new lower prices

super quality Kingston hubs: 10Base-T, 5-port, lifetime warranty, <\$60 KNESTPH; 8-port, <\$70 KNESTPH

16MB 72-bit with parity SIMM, 60ns, 16MBx72-Parity, same but 32MB 32MBx72-Parity

SCSI 2 & SCSI 3 cables/adapters: more have just been added

Kensington turbo trackball Mac 64210, PC 64215

Computing Technology
251 Balsam Street 375-5744

CURRENT APPOINTABLE CIVILIAN EMPLOYEES

No. 472-014-GB7, Interdisciplinary (Supervisory General/Mechanical/Electronics/Aerospace Engineer/Physicist, DP-801/830/855/861/1310-4), Guidance and Control Systems Division, External Projects, Advanced Systems Development Center, Code 472G50D—Area of Consideration: Current appointable civilian employees. **Duty Station:** China Lake. **Opening Date:** 8-7-97. **Closing Date:** 9-8-97. **Selecting Official:** John Weaver, (760) 939-4861. **HRD Contact:** Gail Bigelow, (760) 939-8113. **Permanent Change of Duty Station Authorized:** No. **Summary of Duties:** As the project manager for the Advanced Systems Development Center, this position is responsible for planning, controlling, evaluating, and coordinating the technical efforts of diverse functional task teams, multidisciplinary product teams, and systems development teams needed to satisfy customer requirements and developing plans and schedules with defined milestones and cost, schedule, and performance monitoring and tracking corrective actions as needed. **Technical Quality-Ranking Factor:** Ability to perform engineering management of advanced naval weapons development projects; manage research, development, and test and evaluation programs and/or activities associated with naval weapons systems; organize, manage, and lead externally directed product teams; identify, present, defend, and manage the resources necessary to support weapons systems and/or subsystems from inception to life-cycle support; and manage sponsor program office acquisition process including programatic review, approval, and budget cycles. **Supervisory Quality-Ranking Factor:** Knowledge of affirmative action principles, including a willingness to implement EEO practices, policies, and procedures. **DAWIA Quality-Ranking Factor:** Ability to meet the mandatory DAWIA requirements for training, experience, and education for Level 3 of the Program Management Career Field within 18 months of entering this position. This is a Critical Acquisition Position. Selectee must be a member of the Acquisition Professional Community (APC) or become an APC member prior to assignment. Incumbent must be able to obtain and maintain a Top Secret clearance. **Note:** Full-performance level for this position is DP-4. **Notes 2, 3, and 4 apply.**

No. 472-015-GB7, Program Manager (DP-340-4), Guidance and Control Systems Division, External Projects, Advanced Systems Development Center, Code 472G50D—Area of Consideration: Current appointable civilian employees. **Duty Station:** China Lake. **Opening Date:** 8-7-97. **Closing Date:** 9-8-97. **Selecting Official:** John Weaver, (760) 939-4861. **HRD Contact:** Gail Bigelow, (760) 939-8113. **Permanent Change of Duty Station Authorized:** No. **Summary of Duties:** As the project manager for the Advanced Systems Development Center, this position is responsible for planning, controlling, evaluating, and coordinating the technical efforts of diverse functional task teams, multidisciplinary product teams, and systems development teams needed to satisfy customer requirements and developing plans and schedules with defined milestones and cost, schedule, and performance monitoring and tracking corrective actions as needed. **Technical Quality-Ranking Factor:** Ability to perform engineering management of advanced naval weapons development projects; manage research, development, and test and

evaluation programs and/or activities associated with naval weapons systems; organize, manage, and lead externally directed product teams; identify, present, defend, and manage the resources necessary to support weapons systems and/or subsystems from inception to life-cycle support; and manage sponsor program office acquisition process including programatic review, approval, and budget cycles. **Supervisory Quality-Ranking Factor:** Knowledge of affirmative action principles, including a willingness to implement EEO practices, policies, and procedures. **DAWIA Quality-Ranking Factor:** Ability to meet the mandatory DAWIA requirements for training, experience, and education for Level III of the Program Management Career Field within 18 months of entering this position. This is a Critical Acquisition Position. Selectee must be a member of the Acquisition Professional Community (APC) or become an APC member prior to assignment. Incumbent must be able to obtain and maintain a Top Secret clearance. **Note:** Full-performance level for this position is DP-4. **Notes 2, 3, and 4 apply.**

NAWCWPNS/ CURRENT APPOINTABLE CIVILIAN EMPLOYEES

No. 457-001-GW7, (1) Supervisory Interdisciplinary, (Computer Engineer/Electronics Engineer/Physicist/Mathematician), DP-854/855/1310/1520-3, Avionics Department, Software Engineering Division, Software Development Branch, Fighter Software Development Section, Code 457120E—Area of Consideration: Current appointable civilian employees at NAWCWPNS. **Opening Date:** 8-7-97. **Closing Date:** 8-21-97. **Duty Station:** Point Mugu. **Selecting Official:** A. J. Dahl, (805) 989-9405. **HRD Contact:** Gina Weatherford, (805) 989-3301. **Permanent Change of Duty Station Authorized:** No. **Summary of Duties:** The incumbent performs as Head of the Fighter Software Development Section (B), which provides trained personnel to perform system/software life-cycle support and integrated systems design and development of F-14D systems. Technical functions performed include requirements definition, design, code, test, integration, documentation and process development, and improvement utilizing the Software Engineering Institute Capability Maturity Model for software. **Technical Quality-Ranking Factor:** Knowledge of and experience in F-14 software engineering development and software maintenance of tactical aircraft systems. **Supervisory Quality-Ranking Factor:** Knowledge of affirmative action principles, including a willingness to implement EEO practices. **DAWIA Quality-Ranking Factor:** Ability to meet the DAWIA mandatory training, experience, and education requirements for Level 3 Systems Planning, Research, Development and Engineering Acquisition Career Field. Incumbent must be able to obtain and maintain a Secret clearance. Promotion potential to DP-4 but not guaranteed. **Notes 2, 4, and 5 applies.**

No. 457-002-GW7, (1) Supervisory Interdisciplinary, (Computer Engineer/ Electronics Engineer/ Physicist/Mathematician), DP-854/855/1310/1520-3, Avionics Department, Software Engineering Division, Software Development Branch, Trainer Software Development

Section, Code 457130E—Area of Consideration: Current appointable civilian employees at NAWCWPNS. **Opening Date:** 8-7-97. **Closing Date:** 8-21-97. **Duty Station:** Point Mugu. **Selecting Official:** A. J. Dahl, (805) 989-9405. **HRD Contact:** Gina Weatherford, (805) 989-3301. **Permanent Change of Duty Station Authorized:** No. **Summary of Duties:** The incumbent performs as Head of the Trainer Software Development Section, which provides trained personnel to perform system/software life-cycle support and integrated systems design and development for Trainer Systems. Technical functions performed include requirements definition, design, code, test, integration, documentation and process development, and improvement utilizing the Software Engineering Institute Capability Maturity Model for software. **Technical Quality-Ranking Factor:** Knowledge of and experience in software engineering development and software maintenance of Trainer Systems. **Supervisory Quality-Ranking Factor:** Knowledge of affirmative action principles, including a willingness to implement EEO practices. **DAWIA Quality-Ranking Factor:** Ability to meet the DAWIA mandatory training, experience, and education requirements for Level III Systems Planning, Research, Development and Engineering Acquisition Career Field. Incumbent must be able to obtain and maintain a Secret clearance. Promotion potential to DP-4 but not guaranteed. **Notes 2, 4, and 5 apply.**

REASSIGNMENT

No. 4B-005-RP7, Supervisory Interdisciplinary (Materials Engineer/Chemist/Metallurgist), DP-806/1320/1321-4, Research & Technology Group, Chemistry and Materials Branch, Engineering Materials Section, Code 4B2100D—Area of Consideration: NAWCWPNS. **Duty Station:** China Lake. **Opening Date:** 8-7-97. **Closing Date:** 8-21-97. **Selecting Official:** Robert Nissan, (760) 939-1602. **HRD Contact:** Julie Rodriguez, (760) 939-2693. **Permanent Change of Duty Station Authorized:** No. **Summary of Duties:** The incumbent is responsible for the supervision of the Materials Engineering Section. Duties include maintaining a state-of-the-art awareness of materials requirements and technology that impact NAVAIR and NAWCWPNS programs. This will require developing active dialogues with on- and off-Center program sponsors and potential program sponsors. In-depth knowledge of materials engineering and Navy pollution prevention practices is essential. The incumbent must demonstrate the ability to apply materials engineering concepts to basic and applied research, development, test, evaluation, acquisition, manufacturing technology, and in-service engineering of weapon and aircraft systems. The incumbent must have the knowledge of affirmative action principles, including a willingness to implement EEO practices, policies, and procedures. The incumbent must meet the mandatory DAWIA requirements for training, experience, and education for Level 3 of the Systems Planning, Research, Development, and Engineering Career Field within 18 months of entering this position. Incumbent must be able to obtain and maintain a Secret clearance. **Notes 2 and 4 apply.**



NAVAL AIR WARFARE CENTER WEAPONS DIVISION

ANNOUNCEMENTS



ALL NAWCWPNS SITES GENERAL ANNOUNCEMENTS

FOREIGN VISITOR SPONSORS TRAINING

Are you expecting foreign visitors at your workplace? Effective **15 August**, all Department of Defense sponsors must become certified before sponsoring foreign visitors onboard China Lake and Point Mugu. Certification is achieved by attending a course. A session is scheduled at the China Lake Training Center today, **7 August** from 1300 to 1700. This course is required for NAWCWPNS personnel sponsoring foreign visitors to base facilities. Its purpose is to certify sponsors and ensure that they know their duties and responsibilities regarding foreign visitors. Topics of discussion include types of visitors, foreign visitor requests, and security procedures during visits. Administrators and office managers directly supporting foreign military sales activities are also encouraged to attend; however, only DOD NAWCWPNS personnel will be certified. To enroll in a session, contact Patrick Sammon, Foreign Visitor Coordinator, at 989-7252 or DSN 351-7252.

NEW NAWCWPNS INTRANET WEBSERVER

You can now visit the new NAWCWPNS intranet web site located at <http://on-site.nawcwpns.navy.mil>. The NAWCWPNS Intranet web site can only be accessed by addresses from chinalake.navy.mil (TCP/IP addresses of 129.131.xxx.xxx), mugu.navy.mil (TCP/IP addresses of 143.113.xxx.xxx), nawcwpns.navy.mil (TCP/IP addresses of 206.37.206.xxx), and our local FDDI users (TCP/IP addresses of 199.211.xxx.xxx). The old NAWCWPNS Intranet site at www1.chinalake.navy.mil (also known as www.chinalake.navy.mil and www1.vislab.navy.mil) has been replaced by on-site.nawcwpns.navy.mil. The NAWCWPNS internet can still be found at <http://www.nawcwpns.navy.mil> and is accessed by the WORLD. (For those of you who have been wondering what happened to EarlyBird, you can navigate to their page from the Intranet, General category, News link and also from the Internet, NAWCWPNS WWW Resources link.) We encourage you to contact us. We can provide you with links to your already existing web pages and/or build pages for you on a cost-reimbursable basis. Send your comments and suggestions to us at web.admin@mail.chinalake.navy.mil.

BCBS REPRESENTATIVE TO VISIT CHINA LAKE

The Blue Cross/Blue Shield (BCBS) service representative will be at China Lake on Tuesday, **19 August**, to answer your questions about coverage and help you with any related problems. Bring all pertinent documentation. The representative will be at the Training Center from 0800 to 1100 and 1230 to 1430 and is also available by email at USBCCSVC@IBMMAIL.COM. If you have any questions, contact Leora Fields at 939-2018.

MAIL HANDLERS REPRESENTATIVE TO VISIT CHINA LAKE

The Mail Handlers service representative will be at China Lake on Thursday, **14 August**, to answer your questions about coverage and help you with any related problems. Bring all pertinent documentation. The representative will be at the Training Center from 0800 to 1100 and 1230 to 1430. If you have any questions, contact Leora Fields at 939-2018.

UNIVERSITY OF TENNESSEE MASTERS DEGREE PROGRAM

The University of Tennessee Space Institute (UTSI) announces its tentative schedule for Fall 1997 and Spring 1998. Students receive graduate credit. The current cost of a class is \$659 per 3-hour course. All 3-hour courses listed are provided on video tape for students to view in their homes. Prospective students may enroll as either degree or non-degree candidates. This program is designed for engineering and science majors. Graduates of the Navy and Air Force Test Pilot School receive graduate credit for 12 hours. The program leads to a master of science degree in aviation systems from UTSI. Fall semester begins **27 August**. The last day to register for courses is **1 October**.

Fall Schedule

AS 503	Air Vehicles - Dr. Solies
AS 505	Governmental Policies - Dr. Kimberlin
AS 510A	Special Topics: Helicopter Performance - Dr. Lewis
AS 510B	Special Topics: Remote Sensing Data Acquisition and Analysis - Dr. Hansen
AS 588	Measurement Science I - Dr. Paludan
EM 533	Theory and Practice of Engineering Management - Dr. Schmitt
EM 518	Advanced Engineering Economy - Dr. Hailey
EM 537	Analytical Methods for Engineering Managers - Dr. Garrison
IE 519	Human Factors Engineering I - Dr. Hungerfork, UTK
IE 522	Optimization Methods in Industrial Engineering - Dr. Howard, UTK

Tentative Spring Schedule

AS 504	Airports and the Community - Dr. Hansen
AS 506	Aircraft Design - Dr. Solies
AS 510A	Special Topics: Helicopter Stability and Control - Dr. Lewis
AS 522	Experimental Flight Mechanics: Stability and Control - Dr. Kimberlin
AS 589	Measurement Science II - Dr. Paludan
IE 518	Advanced Engineering Economy
IE 521	Human Factors Methodology - Dr. Hungerford - UTK

Fall Semester Special Topic Descriptions:

AS 510A - Experimental test techniques for helicopter performance flight testing. Theoretical derivation of flight test techniques. Student participation in a series of flight test experiments demonstrating acquisition of flight test data. Course includes instrumentation and data-reduction techniques. AS 510B - Active and passive sensors; aerial photography and airphoto integration; automated analog and digital analysis interpretation systems; earth resource satellites, image enhancement, and classification techniques for color aerial photos, radar, and thermal imagery with applications to terrain evaluation, environmental pollution, wetlands identification, and site selections for industrial sites, highways, and airports. To obtain more information, admission requirements, registration forms, or text titles, contact the area representative at (760) 927-8874 or (760) 499-9101. You can also stop by the Family Service Center, 610 Blandy Ave., Office U, on Tuesdays and Wednesdays from 0900 to 1200.

CHINA LAKE

WRITING AND EDITING SERVICES

TID's writer/editors are available to help you with your formal and informal reporting requirements. We can do anything from a fast read-through to a thorough edit of your report, or we can generate the report for you. To obtain a free estimate or obtain further information, contact Ramona Bernard at 939-3740 (DSN 433-3740).

CHINA LAKE TOASTMASTERS COMMUNICATIONS AND LEADERSHIP PROGRAM

Toastmasters is an ongoing program covering public speaking, preparing and giving presentations, organizing and conducting meetings, parliamentary procedure, impromptu speaking, and much more. Start at your convenience and proceed at your own pace, because this program is conducted in a supportive atmosphere. The program is held at the Training Center, Room 114, every Thursday from 1830 to 2000. For more information, call Carl Von Elm at 377-5768.

The NAWCWPNS Announcements and Human Resources Department Information are published by the PAO on the Thursday before payday. Copies of the insert are provided to the Albuquerque and White Sands sites. Personnel at China Lake, Albuquerque, and White Sands may send items for the Announcements to Code 750000D, Attn: Barry McDonald, FAX 939-2796 (DSN 437-2796) or via QuickMail (CL NAWC WIDE NS name server in the CL MAINSITE zone). Personnel at Point Mugu may send items for the Announcements Section to Code 750000E, Attn: Pat Hollenbaugh, FAX 989-1785 (DSN 351-1785). Items included in the Human Resources Department Information Section are provided by the Civilian Personnel Division, Employee Development Division of the Human Resources Department. **The deadline for all submissions is Wednesday at 1700.8** working days prior to the alternate Thursday publication date. **Note:** All inputs MUST include the sponsor's code and phone number. Any questions or issues pertaining to this insert may be addressed to Ron Rogers at 989-3997 (DSN 351-3997), FAX 989-9846 (DSN 351-9846).

CPR TRAINING

The China Lake Safety Office (Code 84E000D), in conjunction with Cerro Coso Community College, will be offering American Red Cross Adult Cardiopulmonary Resuscitation (CPR) and combination CPR/Standard First Aid classes throughout the summer months.

Classes began on **23 June** and will run through **21 August**. The adult CPR classes are held on Mondays. The class is 4 hours long, and morning and afternoon sessions are available. The combination CPR/First Aid courses are 8 hours long and held on Tuesdays, Wednesdays and Thursdays. These tuition-free classes are also open to the community.

To obtain more information, or sign up for a class, call the China Lake Safety Office at 939-2315.


POINT MUGU

CIVILIAN EMPLOYEE ASSISTANCE PROGRAM (CEAP)

Getting help when you have a problem can be a problem. Do you know there is someone you can talk to if you or someone in your family is having difficulties? CEAP services are free and may be used before, during (on administrative leave), or after working hours. Family members, self-referrals, and supervisory referrals are welcome. The program is located in Bldg. 211 (first floor). The CEAP has a separate exterior entrance on the Wood Road gate at the end of Bldg. 211. All interviews are confidential. For further information, call Paul Sanchez at 989-7708/8161 or Colleen Smith at 989-3225.

LABOR REPRESENTATIVE FOR BARGAINING UNIT EMPLOYEES

The exclusive labor representative for the bargaining unit employees of NAWCWPNS Point Mugu is the National Association of Government Employees (NAGE). The local R12-33 President is Rev. Louis W. Rogers, located in Trailer 10097; he can be reached at 989-1374 or at nager1233@earthlink.net.



HUMAN RESOURCES DEPARTMENT INFORMATION

The Human Resources Department (HRD) Information Section is intended to provide timely HRD information to NAWCWPNS personnel. Any questions or issues pertaining to this section may be addressed to Ron Rogers, Code 733000E, (805) 989-3997 (DSN 351-3997), FAX 989-9846 (DSN 351-9846).

LABOR/EMPLOYEE RELATIONS TEAM NEWS

LEAVE DONORS NEEDED

The employees listed below have been approved as leave recipients under the Leave Transfer Program. These employees have exhausted annual and sick leave because of personal or medical emergencies and anticipate being in a leave-without-pay status for at least 24 hours. Employees who wish to help a leave recipient may donate annual leave to the employee by submitting a completed **OP Form 630-A (Request to Donate Annual Leave to Recipient)** and a copy of current **Leave and Earnings Statement**. OP-Form 630-A is available at Administration Offices at Point Mugu and Telmart at China Lake. Completed forms for Point Mugu may be mailed to Estela Padilla, Code 731000E; forms for China Lake may be mailed to Leora Fields, Code 731000D. For additional information, call Estela Padilla at (805) 989-3222, or Leora Fields at (760) 939-2018.

CHINA LAKE

Shirley Carroll, Code 455300D

Shirley is under a doctor's care.

Kimberly Zurn, Code 471300D

Kim is caring for her daughter, who requires treatment at Children's Hospital of Los Angeles.

Sandy Watson, Code 335000D

Sandy is caring for her husband, who is waiting for a kidney and pancreas transplant.

Barbara Snyder, Code 240000D

Barbara is on maternity leave.

Kathy Hamlin, Code 763300D

Kathy is recovering from knee surgery.

Jacqueline Davis, Code 4734D0D

Jacqueline is recuperating from major surgery.

Debbi Birch, Code 543300D

Debbi is recovering from shoulder surgery.

Kelly Newton, Code 460000D

Kelly has complications caused by her pregnancy.

Dave Pate, Code 475100D

Dave is recovering from rotator cuff surgery.

Pat Hamlin, Code 761100D

Pat is undergoing extensive physical therapy because of a stroke.

POINT MUGU

Richard A. Czebatol, Code 457300E

Richard is undergoing cancer treatment.

James Skiffington, Code 724400E

James is under a doctor's care for surgery, radiation, and chemotherapy.

Rosie Robledo, Code 837000E

Rosie is under a doctor's care—maternity leave.

Lucia Nava, Code 4KK300E

Lucia is on maternity leave.

J. Fay Blunt Ingersoll, Code 529110E

Fay is undergoing chemotherapy and cancer-treatment procedures at UCLA.

William H. Mills, Code 532520E

William is recovering from bypass surgery.

Anita Retome, Code 455330E

Anita is caring for her daughter, who is under a doctor's care.

Gloria McGraw, Code 471V00E

Gloria is recovering from surgery.

530E-11-PDS-97, (1) Electronics Technician, GS-856-12, Emitter System Support Section, Simulator System Support Branch, Airborne Threat Simulation Division, Threat/Target Systems Department, Test and Evaluation Competency, Code 534110E—Area of Consideration: Point Mugu. **Opening Date:** 8-7-97. **Closing Date:** 8-21-97. **Selecting Official:** Emery Kujiraoka, (805) 989-3572. **HRD Contact:** Pam Stafford, (805) 989-3308. **Permanent Change of Duty Station Authorized:** No. **Summary of Duties:** The incumbent serves as the team lead of the Air Force subscale drone simulator support team. Responsible for all aspects of the mini pod radar emitter and mini/midi electronic attack (EA) pod operation and installation on target drones for aircrew training and live firing exercises. Once configured, the radar and EA threat simulators must be tuned and calibrated to the exact parameters required to achieve mission objectives. Utilizing the AN/ALQ-167 EA podded system to perform multiservice electronic protection, testing involving weapon systems including the Advanced Medium Range Air-to-Air Missile, AIM-7 Sparrow, F-16, F-15, F-18, F-14, AWACS, and AEGIS SPY-1. Responsible for all aspects of program support. Interfaces with contractor and program engineers to identify present and future technical requirements. Familiarity with flight line procedures is essential and experience integrating radar and EA simulators on to MQM-107, BQM-34, and MQM-8 subscale drones or QF-4, QF-106, F-16, and F/A-18 aircraft will be necessary. Utilizes skills in related fields of aerospace and mechanical engineering carrying out the design of these unique systems for drone or target installation and documents flight maintenance records and testing results. Conducts preflight and post-operation briefings to ensure that mission objectives have been achieved. Serves as project coordinator requiring substantial interfacing and scheduling with NAWCWPNS management, sponsors, and private industry. The incumbent will utilize common and specialized microwave RF test equipment in the performance of these duties. **Quality-Ranking Factor(s):** (1) Knowledge and skills necessary to build, modify, maintain, and repair the mini radar simulator pods and mini/midi EA pods. (2) Knowledge of the configuration and performance of the AN/ALQ-167, mini and midi pods for training and live firing exercises. (3) Knowledge and understanding of Navy and Air Force drone target system interface requirements. (4) Knowledge of both common and specialized microwave test equipment and components. **Note 1:** Applicant must be able to obtain and maintain a Secret clearance. **Note 2:** A supplemental narrative addressing qualification to each quality-ranking factor is highly recommended. **Note 5 applies.**

No. 54E-12-PDS-97, (1) Electronics Technician, GS-856-12, Test and Evaluation Competency, Test Article Preparation Department, Weapons Instrumentation Division, Instrumentation Development Branch, Code 543200E—Area of Consideration: Point Mugu. **Opening Date:** 8-7-97. **Closing Date:** 8-21-97. **Selecting Official:** Ralph Durazo, (805) 989-0177. **HRD Contact:** Pam Stafford, (805) 989-3308. **Permanent Change of Duty Station Authorized:** No. **Summary of Duties:** The incumbent will perform a variety of duties in support of microelectronics and surface-mount technologies and printed circuit board assembly, including assembly processes, wave soldering, and equipment programming and operation. The incumbent is responsible for the Local Area Network (LAN) and server application. Must have a full range of understanding in the operation and

application of computer-aided design (CAD) in the areas of mentor graphics and intergraph systems. **Quality-Ranking Factor:** Ability to maintain the LAN and maintain server application. **Note 1:** Must be able to obtain and maintain a Secret clearance. **Note 2:** A supplemental narrative addressing qualifications to the quality-ranking factor is highly recommended. **Note 5 applies.**

POINT MUGU/CURRENT APPOINTABLE DOD EMPLOYEES

No. 8300-16-97, (1) Relocation Assistance Program Counselor, GS-101-07/09, Shore Station Management, Naval Air Weapons Station, Family Services Center, Code 8F0000E—Area of Consideration: Current appointable DOD employees at Point Mugu. **Opening Date:** 8-7-97. **Closing Date:** 8-21-97. **Selecting Official:** Jocelyn Harriot. **HRD Contact:** Ed Vicuna, (805) 989-3310. **Permanent Change of Duty Station Authorized:** No. **Summary of Duties:** Implements the NAWS Relocation Assistance Program and provides a full range of services, benefits information, and assistance to relocating military personnel and their family members. Performs data analysis, evaluates effectiveness of the services provided, and reports program progress to the FSC Director. Assesses needs of relocating personnel and family members. Determines the services required and develops a relocation plan tailored to the individual member of the family by identifying appropriate resources to meet specific needs. Plans/coordinates/implements services, programs, and workshops that address relocation needs of personnel and their family members. Analyzes and evaluates on a quantitative basis the effectiveness of the training/counseling program in meeting established Relocation Assistance Program objectives. **Summary of Qualification Requirements:** Basic Eligibility: Requires a degree in behavioral or social sciences or a combination of education and experience. **Quality-Ranking Factor:** Knowledge of the techniques and principles associated with the relocation and career transition process.

No. 411-003-GW7, (1) Program Analyst, GS-343-11, Systems Engineering Department, Systems Engineering Management Division, TAMPS Project Office, Code 411300E—Area of Consideration: Current appointable civilian employees at Point Mugu. **Opening Date:** 8-7-97. **Closing Date:** 8-21-97. **Duty Station:** Point Mugu. **Selecting Official:** Bob Anderson, (805) 989-3454. **HRD Contact:** Gina Weatherford, (805) 989-3301. **Permanent Change of Duty Station Authorized:** No. **Summary of Duties:** The incumbent provides financial, acquisition, and administrative support of the TAMPS Project Office (IPT). The incumbent will be responsible for assisting the TAMPS Project Office in managing the IPT's unique earned value management system, and development and updating of schedules, budgets, project and task plans, acquisition plans, and equipment resources. The incumbent will gather and analyze financial data, evaluate and interpret findings, develop conclusions and recommendations, and present verbal or written reports to the TAMPS Business Manager, Project Manager, or Comptroller. The incumbent will coordinate with task engineers the development of equipment plans and acquisition of TAMPS equipment; monitor expenditures against plans and ensure necessary equipment is procured in a timely manner. The incumbent must be able to perform as a Contracting

Officer's Representative. The incumbent must maintain a Secret clearance. **Quality-Ranking Factor:** Knowledge of the TAMPS IPT Earned Value Management System. **Note 5 applies.**

No. 840-016-SE7, (2) Communications Center Assistant, GS-303-5/6/7, Naval Air Weapons Station, Security Department, Operations Division, Civilian/Military Police Branch, Code 842100E—Area of Consideration: Current appointable DOD employees at Point Mugu. **Opening Date:** 8-7-97. **Closing Date:** 8-21-97. **Selecting Official:** Ed Laroche, (805) 989-7011. **HRD Contact:** Susan Ellis, (805) 989-3319. **Permanent Change of Duty Station Authorized:** No. **Summary of Duties:** The incumbent operates and maintains police, fire, medical, and disaster network communication equipment. Interprets and implements station policies and regulations. Directs police patrol personnel and other response personnel. Directs communication efforts to maintain law and order, traffic control, and protection of personnel and government property. Controls access control systems, monitoring entry and exit points. Will be required to successfully complete an approved weapons training program and be armed with a law enforcement-issued weapon while on duty. **Quality Ranking Factors:** Ability to operate and communicate clearly over telephone and net radio and operate related communications equipment, CCTV, and IDS systems.

NAWCWPNS

No. 4B-004-RP7, Supervisory Interdisciplinary (Materials Engineer/Chemist/Metallurgist), DP-806/1320/1321-3, Research & Technology Group, Chemistry and Materials Branch, Engineering Materials Section, Code 4B2100D—Area of Consideration: NAWCWPNS. **Duty Station:** China Lake. **Opening Date:** 8-7-97. **Closing Date:** 8-21-97. **Selecting Official:** Robert Nissan, (760) 939-1602. **HRD Contact:** Julie Rodriguez, (760) 939-2693. **Change of Duty Station Authorized:** No. **Summary of Duties:** The incumbent is responsible for the supervision of the Materials Engineering Section. Duties include maintaining a state-of-the-art awareness of materials requirements and technology that impact NAVAIR and NAWCWPNS programs, will require developing active dialogues with on- and off-Center program sponsors and potential program sponsors. In-depth knowledge of materials engineering is essential. **Technical-Ranking Factor:** Knowledge of Navy pollution prevention practices and ability to apply materials engineering concepts to basic and applied research, development, test, evaluation, acquisition, manufacturing technology, and in-service engineering of weapon and aircraft systems. **Supervisory Quality-Ranking Factor:** Knowledge of affirmative action principles, including a willingness to implement EEO practices, policies, and procedures. **DAWIA Quality-Ranking Factor:** Ability to meet the mandatory DAWIA requirements for training, experience, and education for Level 3 of the Systems Planning, Research, Development, and Engineering Career Field within 18 months of entering this position. Incumbent must be able to obtain and maintain a Secret clearance. **Note:** Promotion potential to DP-4 but not guaranteed. **Notes 1, 2, and 4 apply.**

APPLICATION PROCEDURES

Applications must be received at the Human Resources Department (HRD) Reception Desk, at any site, no later than 5:00 p.m. on the closing date of the announcement. Applications must be submitted for each vacancy. LATE APPLICATIONS WILL NOT BE ACCEPTED UNLESS ON APPROVED LEAVE, TDY, ETC., THE ENTIRE TIME THE ANNOUNCEMENT IS OPEN. Please make a copy of your application for your own retention before you submit it. (Only applications with original signature and date will be accepted.)

Submit a copy of your latest narrative performance assessment/appraisal of record with any application filed against a vacancy announcement. If the assessment/appraisal does not clearly state the tasks/duties performed, attach a copy of your performance plan.

A supplemental narrative addressing your qualifications to each quality-ranking factor (QRF) is highly recommended. This information will be used to identify highly qualified candidates to be referred for selection. Additional information will not be accepted after the closing date of the announcement.

When multiple-grade levels are advertised, applicants will only be rated for the lowest grade level indicated on their application that will be acceptable and higher grade levels for which they qualify.

Applicants may review the X-118 Qualification Standards at the China Lake Technical Library; at the Point Mugu Directorate/Department Resources Offices; or at any NAWCWPNS Human Resources Department Office.

AREA OF CONSIDERATION INFORMATION

Applications will be accepted from current appointable employees at NAWCWPNS and, unless otherwise noted in the specific announcement, the tenant commands with approved cross-service agreements. These include employees with career or career-conditional appointments; temporary employees with Veterans Readjustment Act (VRA) eligibility or reinstatement eligibility; handicapped employees serving on an excepted Schedule (A) appointment, VRA employees, and temporary employees within reach on an OPM certificate (or equivalent). If a tentative selection is made from tenant, VRA, or temporary applicants, the selection process cannot be completed until a waiver to the hiring freeze is approved by COMNAVAIR. Appointable persons include those with reinstatement eligibility, those within reach on an OPM certificate, and those eligible for noncompetitive permanent appointment (e.g., VRA, handicapped).

NOTES

1. If selection is made below the full-performance level, the selectee may be promoted to the next higher level(s) without further competition provided the following conditions are met: (1) OPM requirements are met, (2) management determines the incumbent is performing at the higher grade level, and (3) there is work at the higher grade level to justify the promotion. **PROMOTION IS NOT GUARANTEED.**
2. First-time supervisors and managers are required to serve a probationary period of 12 months. Those who do not satisfactorily complete the probationary period will be returned to positions of no lower grade and pay than their former position.
3. **Drug Testing Designated Position.** An applicant tentatively selected for this position will be required to submit to urinalysis for illegal use of drugs prior to a final selection. (Exception: If the position change is for 30 days or less or the applicant currently occupies a DOD testing designated position (TDP), no applicant test is authorized.) The selection is contingent upon a negative drug test result and, thereafter, the selectee will be subject to drug testing on a random basis as the incumbent of a TDP. Further, all DON employees may be subject to drug testing under certain circumstances such as reasonable suspicion and after an accident or unsafe practice. All individuals will have the opportunity to submit medical documentation that may support the legitimate use of a specific drug to a Medical Review Officer. An applicant's test result will be provided to the selecting official and servicing Human Resources Office before a final selection is made. A verified positive drug test result of a current DON employee will also be provided to the employing activity/command.
4. This is a DAWIA (Defense Acquisition Workforce Improvement Act) Designated Position. P.L. 101-510 requires that all applications for DAWIA designated positions which are advertised be evaluated utilizing a quality ranking factor (QRF) to determine the best qualified candidates. A supplemental narrative addressing the DAWIA QRF is highly recommended. Applicants wishing more information on the DAWIA mandatory requirements and/or definitions of DAWIA career fields may contact the DAWIA representative within their Competency.

NOTE: Applicants selected for Critical Acquisition Positions will be required to sign a Tenure Agreement to remain in that position for at least a 3-year period.

5. **Merit Promotion Positions for Point Mugu Site Vacancies.** Applicants must meet all eligibility requirements (including, when applicable, time-in-grade and qualification requirements) within 30 calendar days of the closing date of the announcement.

GENERAL INFORMATION

The Naval Air Warfare Center Weapons Division is an equal opportunity employer. Selection will be made on a fully equal basis without discrimination. Selection will not be made on non-merit reasons such as race, color, religion, sex, national origin, age, politics, marital status, physical handicap, or membership or non-membership in an employee organization.

All vacancies are subject to restrictions imposed by the DOD Priority Placement Program (PPP).

Incumbent must hold or be able to obtain the appropriate security clearance.

As of 1 August 1992, mandatory direct deposit/electronic funds transfer (DD/EFT) became the standard payment within DOD for pay of certain civilian personnel. Newly hired civilian personnel and employees (not currently enrolled) who are selected for competitive promotion, reassignment, transfer, etc., will be required to enroll in DD/EFT within 60 days. An asterisk (*) preceding an announcement number indicates a modification has been made to the vacancy advertisement; please note indicated changes.

No. 82-093-ML97, Supervisory Police Officer, DG-083-3, Code 841300D, NAWS Safety and Physical Security Department, Police (Physical Security) Division, Police Operations Branch—Area of Consideration: China Lake. **Opening Date:** 8-7-97. **Closing Date:** 8-14-97. **Selecting Official:** Will Levy, 939-2709. **HRD Contact:** Shirley Hauser, 939-2883. **Permanent Change of Duty Station Authorized:** No. **Summary of Duties:** Incumbent performs duties as a first-line supervisor in the Police Operations Branch. Duties include supervising the performance and actions of patrol officers, ensuring all investigations handled by patrol units are properly conducted, and functioning as Watch Commander in the absence of the Watch Commander. **Quality-Ranking Factor(s):** (1) **Technical-Ranking Factor:** Ability to influence and motivate others, including the ability to function as a team player. (2) **Supervisory-Ranking Factor:** Knowledge of affirmative action principles, including a willingness to implement EEO practices. **Note:** Previous applicants need not reapply. **Notes 2 and 3 apply.**

POINT MUGU

No. 530E-10-PDS-97, (1) Electronics Technician, GS-856-7, (Promotion Potential to GS-856-9), Aero/Mechanical Branch, Airborne Threat Simulation Division, Threat/Target Systems Department, Test and Evaluation Competency, Code 534200E—Area of Consideration: Point Mugu. **Opening Date:** 8-7-97. **Closing Date:** 8-21-97. **Selecting Official:** Robert Martin, (805) 989-5457. **HRD Contact:** Pam Stafford, (805) 989-3308. **Permanent Change of Duty Station Authorized:** No. **Summary of Duties:** The incumbent will be responsible for the fabrication, upkeep, and deployment of a variety of threat simulation systems and the alteration of airborne platforms to support threat simulation operations. Additionally, the incumbent will assist in the modification of NAWCWPNS and other Navy aircraft for range support and other test purposes. This work requires a thorough knowledge of aircraft wiring procedures and soldering practices, as well as a working knowledge of high-power RF systems. The incumbent will assist with the handling and loading of off-board dispensable ordnance, such as flares and chaff. The incumbent will be responsible for safely installing and removing and assisting in the setup and checkout of airborne stores on NAWCWPNS and visiting aircraft at NAWCWPNS and other facilities, both military and civilian, and at domestic and overseas locations. **Quality-Ranking Factor(s):** (1) Knowledge of threat simulation airborne stores and their appropriate control units. **Note 1:** Selection will be made at the GS-7 grade level. Selectee may be promoted to the GS-9 grade level without further competition dependent on the following conditions: (a) OPM requirements are met, (b) management determines the incumbent is performing at the higher grade level, and (c) there is work at the higher grade level to justify the promotion. **PROMOTION IS NOT GUARANTEED. Note 2:** Applicant must be able to obtain and maintain ordnance and ejection-seat safety certification. **Note 3:** Must be able to obtain and maintain a Secret clearance. **Note 4:** A supplemental narrative addressing qualifications to the quality-ranking factor is highly recommended. **Note 5 applies.**

EMPLOYEE DEVELOPMENT DIVISION NEWS

ON-BOARD TRAINING COURSE SCHEDULE

Enrollments are accepted via On-Board Training Requests (NAWCWPNS 12410/2), call-ins, and QuickMail; however, check individual announcements for enrollment procedures.

CAREER TRANSITION AND PLACEMENT CENTER

Need help with future career plans? Unsure of how to prepare a resume or complete an SF-171? Confused about the demand for your skills and educational background in today's work environment? Visit the Career Transition and Placement Center (CTPC) at Point Mugu or China Lake for assistance with all your career planning needs. Both sites offer full-service career-transition assistance daily and personal career counseling by appointment. Center resources include periodicals, brochures, and books on many topics including career planning, job search strategies and techniques, and retirement. IBM-compatible and Macintosh computers with laser jet printers and software are available to help you write your SF-171 or OF-612 and resume, determine your interests and values, or search available job listings via bulletin boards. For more information about the CTPC or to schedule an appointment, call 989-3997 (Point Mugu) or 939-2359 (China Lake).

CSUC COMPUTER SCIENCE PROGRAM

The following courses are being offered this fall at China Lake for the California State University, Chico (CSUC), computer science program (bachelor's and master's degrees). To obtain course descriptions, book order forms, tuition support/cost information, and registration forms, contact Cecil Webb at 939-0878. Classes begin **26 August** and end **18 December**, except for CSCI151, which begins **3 September**. With the exception of CSCI151, the courses are held Tuesday and Thursday at the Training Center via satellite. CSCI151 is held on Monday and Wednesday at the Training Center on videotape.

CSCI151: Algorithms and Data Structures; 1130-1245; Lab 1700-1800, Tuesday

CSCI351: Language Theory; 0800-0915

CSCI227: Discrete Simulation Systems; 0930-1045

CSCI240: Computer Animation; 1100-1215

CSCI278: Computer Networks; 1230-1345

CSCI397C-23: Object-Oriented Prog. & Implementations; 1400-1515

CSCI322: Object-Oriented Prog. in Artificial Intelligence; 1520-1630

To obtain more information, contact Cecil Webb at 939-0878.

CSUB FALL COURSES

The following courses are being offered this fall at China Lake for the California State University, Bakersfield (CSUB) bachelor's degree program in business administration and master's degree program in administration. To obtain course descriptions, tuition support/cost information, and registration forms, call Cecil Webb at 939-0878. Classes will be held at the Training Center from 1610 to 2110 on the days indicated. Each course is 5 quarter units (40 hours).

BA374: Business and Society, Wednesdays, **10 September-19 November**

MGMT308: Organization Theory/ADM600: Seminar in Management, Tuesdays, **9 September-25 November**

ECON312: The Middle East and North Africa, Thursdays, **11 September-20 November**

To obtain more information, contact Cecil Webb at 939-0878.

CSUN FALL COURSES AT CHINA LAKE

California State University, Northridge (CSUN) offers master's degree programs in electrical engineering and mechanical engineering via its Continuing Education Television Network (CETN) (microwave link). Call Cecil Webb at 939-0878 to obtain course schedules for the fall, course descriptions, book list/order forms, and registration and tuition support/cost information. Classes for the semester begin **25 August** and end **18 December**.

To obtain more information, contact Cecil Webb at 939-0878.

SOFTWARE DEVELOPMENT STANDARDS: STD J016 AND ISO/IEC 12207 (16 hrs.)

12-13 August; Tuesday-Wednesday, 0800-1600; Training Center, China Lake. By: David Maibor Associates, Inc.

This course reviews the background of software standards, recent acquisition policy changes in the Department of Defense, and the current environment of "acquisition reform," particularly with respect to software containing key acquisition themes (single-process initiative, integrated product teams, COTS and Ada, software

support, and assessment of software maturity). This course discusses the role that software standards may play and highlights the contents of four primary software development standards: (1) MIL-STD-498, (2) EIA/IEEE J-STD-016, (3) ISO/IEC 12207, and (4) U.S. 12207. Tailoring examples are reviewed from eight current projects to illustrate the variety of acquisition approaches currently followed by various government organizations. The course concludes with a look at current and future

trends. The course is primarily lecture style, using overhead transparencies with individual and group exercises and discussion interspersed over the course length.

Note: Individuals enrolled in this class may purchase a reproduction of the standards by contacting David Maibor Associates, Inc., at (617) 449-6554 or by fax at (619) 455-8928 by **28 July**. Indicate the additional purchase on the On-Board Training Request (NAWCWPNS 12410/2). Reproduction and shipping charges for

the individual copies of J-STD-016 are \$45 per copy and for ISO/IEC 12207, \$75 per copy. The American Standards Institute charges \$156 per copy for J-STD-016 and \$100 per copy for ISO/IEC 12207.

To enroll, submit an On-Board Training Request (NAWCWPNS 12410/2) to Renee Riga, Code 4F0000D. For further information, call 939-7092 (DSN 437-7092)

AVIONICS INTEGRATION (24 hrs.)

19-21 August; Tuesday-Thursday, 0800-1630; Training Center, Point Mugu. By: ATTRIDGE Electronics

This course is designed to provide participants with an understanding of the steps taken in integrating avionic subsystems into aircraft. Details will be presented on approaches used to integrate avionics. An integral part of a successful integration is the system integration test stand (SITS), where hardware simulations are used to incrementally integrate hardware systems into the avionics suite. The SITS environment, description of tests conducted, and criteria for test success will be identified. Topics covered will include, but are not limited to, preintegration activities/documentation; integration buildup; elements of a SITS facility; simulation inputs for various missions; types of test performed; data acquisition and processing; and criteria for a successful integration of avionics.

To enroll, submit an On-Board Training Request (NAWCWPNS 12410/2) to Felicia Nickelberry, Code 733000E. For further information, call 989-3980 (DSN 351-3980).

ELECTRONICS WARFARE: ESM/ELINT (8 hrs.)

28 August; Thursday, 0800-1630; Training Center, Point Mugu.

By: ADAMY Engineering

This is a practical course that presents technical insight into ESM and ELINT system specification design and application. The scope of this course ranges from terms and definitions to system descriptions to design criteria to state-of-the-art description and trend predictions. The course will include hardware, software, and processes described in graphical rather than mathematical terms.

To enroll at Point Mugu, submit an On-Board Training Request (NAWCWPNS 12410/2) to Felicia Nickelberry, Code 733000E. For further information, call 989-3980 (DSN 351-3980).

SOFTWARE PROJECT MANAGEMENT (16 hrs.)

27-28 August; Wednesday-Thursday, 0800-1600; Training Center, China Lake. By: SPIO

This 2-day class covers the concepts and principles of the software project planning (SPP) and software project tracking & oversight (SPT&O) key process areas (KPAs) as described for a Level 2 organization in SEI's capability maturity model (CMM) for Version 1.1. The objectives of this class are to introduce students to the principles of software project planning, tracking, and oversight, providing a basis for defining SPP and SPT&O processes, along with providing students with a common view, vocabulary, and use of terminology. Knowledge gained from this class will give working group members a basis for developing, documenting, and improving their SPM processes; however, practitioners and managers of software projects will also benefit from the principles taught in this class.

To enroll or obtain further information, contact Renee Riga at 939-7092 (DSN 437-7092).

PERSONAL SOFTWARE PROCESS (112 hrs.)

4 Sessions

2, 4, 9, 11, 16, 18 September; 0800-1600; Training Center, China Lake. By: Jeff Schwalb

The Personal Software Process (PSP) is a disciplined, process-oriented approach to software engineering. Its purpose is to help engineers improve their performance by applying to their work the software-engineering, quality-management, and process-management concepts in the Capability Maturity Model (CMM) software. They learn to use the PSP framework to manage their own processes—improving their productivity, schedule performance, and the quality of the products they produce. This course provides a step-by-step framework that demonstrates the methods of disciplined software engineering. Participants learn how effective the methods

RETIREMENT SEMINAR

RETIREMENT FOR THOSE WITHIN 5 YEARS OF RETIREMENT (16 hrs.)
11-12 August; Monday-Tuesday, 0800-1630; Point Mugu.
Presentations on CSRS and FERS retirement systems, including creditable service, military service, and Catch 62, deposit/redeposit service, how annuities are computed, TSP, health and life insurance, and social security. Presentations will also be given on topics such as financial planning, estate planning, wills and trusts, taxes, volunteer work, starting and running your own business, etc.
Note: This class will be offered again between October and December.
To enroll at Point Mugu, submit an On-Board Training Request (NAWCWPNS 12410/2) to Felicia Nickelberry, Code 733000E. For further information, call 989-3980 (DSN 351-3980).

can be by using their own data. The course covers the PSP as described in "A Discipline for Software Engineering," by Watts Humphrey. The PSP is a scaled-down version of industrial-software processes based on quality-management principles and is designed to be used by an individual software engineer.

Prerequisites: You must know a programming language (do not use this course as an opportunity to learn a new language). You must also have a development environment available (a portable computer is recommended) that includes a compiler plus Microsoft Word and Excel.

To enroll, submit an On-Board Training Request (NAWCWPNS 12410/2) to Renee Riga, Code 4F0000D, 939-7092 (DSN 437-7092). For further information on course content and outline, call Jeff Schwalb at 939-6226 (DSN 437-6226).

BASIC SUPERVISION (40 hrs.)

8-12 September; Monday-Friday, 0800-1600; Training Center, China Lake. By: Teri Mahaney, Supertraining

At the end of this 5-day course, participants will have experienced and developed competency in selected skills in the five functions of management: planning, organizing, staffing, motivating, and controlling. Participants will identify personal profiles of supervisors/followers (and their own); identify personal leadership characteristics; give feedback, both positive and negative; and identify organization change dynamics. This course meets the mandatory 40-hour training requirement for new supervisors as well as provides update information for more experienced supervisors.

To enroll, contact Lori Ryser-Warrick at 939-2686.

TECHNICAL WRITING (32 hrs.)

8-11 September; Monday-Thursday, 0800-1600; Training Center, Point Mugu. By: Communications Skills Company, Inc.

Note: This course is designed for technical personnel and is a required course for personnel entering the SEDP in FY96 and for Junior Professional Program personnel hired in FY97.

This seminar will provide students with the skills and confidence to prepare technical writing assignments and will introduce them to the style and standards of technical writing through examples and exercises taken from writing situations that Navy engineers routinely face. Participants learn techniques for analyzing, interpreting, and translating information into clear, readable letters and reports.

To enroll, submit an On-Board Training Request (NAWCWPNS 12410/2) to Felicia Nickelberry, Code 733000E. For further information, call 989-3980 (DSN 351-3980).

CONTRACT MANAGEMENT FOR NAVAIR ACQUISITION FORCE PERSONNEL (40 hrs.)

8-12 September; Monday-Friday, 0800-1630; Training Center, Room 104B, Point Mugu. By: AMI

This course meets the requirement for certification as a Contacting Officer's Representative. This 5-day course is designed to acquaint technical personnel with the DOD acquisition process and to emphasize the importance of engineers, quality personnel, specification writers, and requirements determinators in procurement and contract administration. It reinforces the role of technical personnel before and after the contract is awarded. **Note:** The cost

of the class is \$300 per person; a job order number is required.

To enroll, submit an On-Board Training Request (NAWCWPNS 12410/2) to Mary Glasmann, Code 733000E. For further information, call (805) 989-3984 (DSN 351-3984).

EFFECTIVE TECHNICAL PRESENTATIONS/BRIEFINGS (32 hrs.)

15-18 September; Monday-Thursday, 0800-1600; Training Center, Point Mugu. By: Communications Skills Company, Inc.

Note: This course is designed for personnel in the technical community and is required for Junior Professional Program participants hired in FY97 and SEDP personnel entering the SEDP in FY96.

This course is designed to prepare the participant to meet the special demands of the formal professional presentation or briefing during which a presenter—usually in a large conference room or auditorium setting—addresses a group of fellow professionals to give them detailed information about a problem, proposal, plan, research project, etc.

To enroll, submit an On-Board Training Request (NAWCWPNS 12410/2) to Felicia Nickelberry, Code 733000E. For further information, call 989-3980 (DSN 351-3980).

TEAM DEVELOPMENT TRAINING (16 hrs.)

16 and 23 September; Tuesdays, 0800-1600; Training Center, Point Mugu. By: Jace Overgaauw, Skopos Consulting

Note: This class will meet on two consecutive Thursdays.

Successful teams work as hard on their group dynamics and team processes as they do on the tasks they have been assigned. Working together cohesively and effectively can be a challenge. This course provides the basic ingredients to set up and maintain an effective and productive team. As organizations begin to depend on effective teamwork to achieve results in constantly changing environments and markets, the tools and processes used by teams to perform successfully become increasingly critical. This course provides a highly interactive and enthusiastic learning experience for intact and cross-functional teams, and individual participants who desire to strengthen their ability to understand and influence teamwork.

To enroll, submit an On-Board Training Request (NAWCWPNS 12410/2) to Marcy Acosta, Code 733000E. For further information, call 989-3992 (DSN 351-3992).

CAREER PLANNING WORKSHOP (16 hrs.)

16-17 September; Tuesday-Wednesday, 0800-1630; Training Center, China Lake. By: Marlon Lapan

This workshop introduces the participants to key job change and enrichment strategies. Participants will identify personal interests and strengths and analyze their current job and career aspirations. With this information, the participant will develop a career action plan and examine the latest job search strategies and techniques (e.g., personal marketing/networking, job market search, and interviewing skills).

To enroll, submit an On-Board Training Request (NAWCWPNS 12410/2) to Dorothy Wiederhold, Code 733000D. For further information, call 939-2359 (DSN 437-2359).

SATELLITE COMMUNICATION (8 hrs.)

16 September; Tuesday, 0800-1630; Training Center, China Lake.

18 September; Thursday, 0800-1630, Training Center, Point Mugu.

By: ADAMY Engineering

This is a practical course that presents technical insight into satellite communication. The scope of the course ranges from applications to orbits, to system design to performance calculations. It describes hardware, software, and processes in graphical rather than mathematical terms. In addition, easy-to-use formulas, nomographs, and calculation techniques that allow the trade-off of application constraints, such as information rates versus link performance, will be addressed. In-class exercises will be used to calculate performance in two realistic communication satellite applications.

To enroll at China Lake, submit an On-Board Training Request (NAWCWPNS 12410/2) to Dorothy Wiederhold, Code 733000D. For further information, call 939-2359 (DSN 437-2359).

To enroll at Point Mugu, submit an On-Board Training Request (NAWCWPNS 12410/2) to Felicia Nickelberry, Code 733000E. For further information, call 989-3980 (DSN 351-3980).

NAVY SYSTEMS ACQUISITION (32 hrs.)

23-26 September; Tuesday-Friday, 0800-1600; Training Center, Point Mugu. By: AMI

Note 1: This is a required course for SEDP enrollees.

Note 2: This class fulfills the DAWIA requirement for ACQ101 for a Level 1 certification or subsidiary career field.

This class was designed to provide the participants with a comprehensive understanding of how the Department of the Navy (DON) conducts systems acquisition. The course introduces participants to the system acquisition environment in the federal government, DOD, and DON. Building on that fundamental knowledge, DOD and DON system acquisition policy and procedures are discussed specifically. The course focuses on the unique way that the DON is organized to conduct systems acquisition. Case studies allow the participants to apply many of the concepts, principles, and procedures described during classroom presentation. The course gives the student the essentials of

FSDB/BUSINESS OBJECTS

The FSDB Project Office will be presenting the following 8-hour courses at China Lake and Point Mugu. The courses will introduce participants to the Financial Summary Database (FSDB), which provides a streamlined, flexible, and powerful tool for querying and reporting financial information from the NIFMAS financial system. Participants will learn how to use the Business Objects query and reporting software to obtain the financial information they need. The class will also cover defining, organizing, and using the financial information available from FSDB.

Intended Audience: Administrative officers, business managers, budget/financial analysts, or anyone requiring knowledge of financial data.

Prerequisites: It is highly recommended that participants purchase the Business Objects client software prior to attending the class. For assistance, contact Jessica Vincent at 927-1500.

Note: All classes are from 0800 to 1600 at the Training Centers.

12 August	Point Mugu	4 September	China Lake
14 August	China Lake	9 September	Point Mugu
19 August	Point Mugu	16 September	China Lake
26 August	Point Mugu	25 September	Point Mugu
28 August	China Lake		
To enroll, contact Carol Franich at 939-3968 or via QuickMail to FSDB Help Desk.			

program definition and planning, acquisition strategy, and funds management including DOD and congressional activities, contracting, cost, and schedule monitoring and reporting, and the organizational execution of the program.

To enroll, submit an On-Board Training Request (NAWCWPNS 12410/2) to Felicia Nickelberry, Code 733000E. For further information, call 989-3980 (DSN 351-3980).

SYSTEMS ENGINEERING MANAGEMENT WORKSHOP (40 hrs.)

29 September-3 October; Monday-Friday, 0730-1630; Training Center, China Lake. By: Acquisition Management Institute (AMI)

This workshop presents systems engineering as a management function that controls the total system development effort to achieve an optimum balance of all system elements. Course topics include the DOD

acquisition process, the systems engineering process, manufacturing, integrated logistics support, and risk management as specific entities. Each participant will serve as a member of a system engineering team with each team having overall system requirements or subsystem requirements.

This course is designed for those who wish to fulfill the requirements for SYS 201 or SYS 301. The target audience is DAWIA systems engineers who need SYS 201 for Level 2 certification and SYS 301 for Level 3 certification.

Deadline: 8 September

To enroll, submit an On-Board Training Request (NAWCWPNS 12410/2) to Code 733000D/FAX 939-0867 (DSN 437-0867). For further information, call Nancy Saxton at 939-3129 (DSN 437-3129).

CIVILIAN PERSONNEL DIVISION NEWS

MERIT PROMOTIONS

CHINA LAKE

No. 52-017-DWE97, Computer Specialist, DP-0334-3, Code 525410D, Systems Development Section, Land Range Real Time Data Branch, Data Processing and Displays Division, Pacific Ranges & Facilities Department—Area of Consideration: China Lake. **Opening Date:** 8-7-97. **Closing Date:** 8-14-97. **Selecting Official:** Dan Harris, 939-6964. **HRD Contact:** Diana Eggleton, 939-8111. **Permanent Change of Duty Station Authorized:** No. **Summary of Duties:** The Systems Development Section is responsible for the ongoing development and operation of the Integrated Telemetry Analysis and Display System (ITADS). The incumbent will provide systems engineering support for (1) collecting, analyzing, and documenting ITADS customer requirements, (2) performing systems analysis of current hardware/software systems, (3) producing new system designs, and (4) developing designs into new hardware/software systems. The incumbent must be able to work in a team environment and exercise good

communication skills. **Selection Factor:** Ability to analyze and design software systems for telemetry bit synchronizers and decommutators. **Technical Quality-Ranking Factor:** Knowledge of UNIX workstations, Windows-NT workstations, and Pascal and C++ programming. **DAWIA Quality-Ranking Factor:** Ability to meet mandatory DAWIA requirements for training, experience, and education for Level 3 of the Communications-Computer Systems Career Field within 18 months of entering the position. Must be able to obtain and maintain a Secret clearance. **Note 4 applies.**

No. 731-008-NR7, Office Manager/Senior Office Manager, DG-303-2/3, Human Resources Department, Civilian Personnel Division, Code 731000D—Area of Consideration: China Lake. **Duty Station:** China Lake. **Opening Date:** 8-7-97. **Closing Date:** 8-14-97. **Selecting Official:** Richard Cracraft, 939-8115. **HRD Contact:** Nancy Robinson, 939-8106. **Permanent Change of Duty Station Authorized:** No. **Summary of Duties:** The incumbent provides secretarial and administrative support to the Division Head and other division personnel.

Incumbent performs a full range of secretarial and administrative support duties, involving planning, coordinating, and prioritizing tasks. Responsibilities include receiving calls and visitors; originating and preparing correspondence; reviewing all correspondence, ensuring appropriate content, grammar, format, etc.; making travel arrangements; preparing travel orders and vouchers; maintaining timecards; and using the Macintosh computer and assorted software programs. Incumbent also provides primary support to the NAWCWPNS Professional Recruitment Program. Incumbent is point of contact for college recruitment with schools and recruiters and all paid advertising. Interfaces with managers, vendors, and prospective Junior Professionals. **Quality-Ranking Factor:** Ability to communicate orally and in writing; ability to plan and coordinate travel arrangements; knowledge of correspondence; knowledge of procurement process sufficient to procure paid advertisements; knowledge of timekeeping procedures; and knowledge of Filemaker Pro, Meeting Maker, and Microsoft Word. The full performance level is DG-3. **Note 1 applies.**