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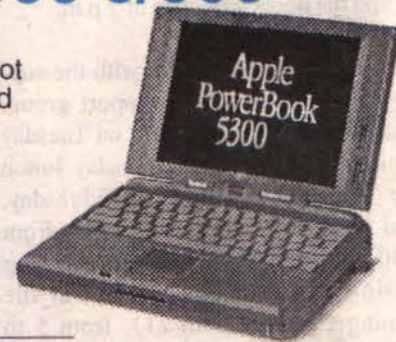
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THE ROCKETEER

THURSDAY, APRIL 18, 1996

NAVAL AIR WEAPONS STATION, CHINA LAKE

VOL. 52, No. 8

IOB puts old range workhorses out to pasture



ASKANIAS—Mounts built in the 1940s and 1950s have served the ranges well as as single-function trajectory-tracking tools. But technological advances have made them obsolete and their time has come for retirement. Past and current employees of the IOB Photovideo Branch gathered March 4 to retire the first of 14 of 49 of the mounts that have served on the north ranges for more than 50 years.

Retirees return to IOB Photovideo Branch to join others in bidding fond farewell to 50-year-old Askania Cinetheodolites

By Pam Harris
Scientific & Technical Documentation

George Silberberg, first China Laker to operate an Askania, is retired. Al Hammer, first Askania film reader, is retired. Marie McArtor, Askania operator from 1953 to 1973 — the longest of any one person at China Lake and the first woman field operator in the United States — is also retired. Kenny Hire, first Askania technician, will retire sometime this year. Gone are some of China Lake's earliest pioneers, men and women who carved a world-class naval base out of a searingly hot, parchingly dry, and disagreeably windy corner of the Mojave Desert. And on March 4, at a gala chili feed hosted by IOB's Photovideo Branch China Lake, retired the first 14 of 49 of its most enduring performers: the Askania Cinetheodolites.

For the past 51 years — March 1945 to March 1996 — these 49 Askantias worked on the north ranges of China Lake, supporting over 15 test firings per day and gathering trajectory data for some of the Navy's earliest precision-guided weapons: the Bumblebees, the Terriers, the Tartars, the Redeyes, the ASROCS, the Pop-Ups.

Please see **ASKANIAS**, Page 10

CRADA holds hope for cleaner air

CL chemist's adaptation of liquid sampling device draws industry interest

By Barry McDonald
Editor

The Department of Defense doesn't exist for the purpose of making industry's life easier. Its purpose is the defense of the country against foreign threats. Occasionally, however, DoD and industry face other, common threats.

Since passage of the Clean Air Act of 1990, the release of toxic airborne metals into the atmosphere has come under increased scrutiny, and both DoD and industry must find ways of decreasing such emissions.

Last October NAWCWPNS China Lake and Thermo Jarrell Ash Corporation (TJA) entered into a cooperative research and development agreement (CRADA) to develop a continuous emissions monitor for hazardous air pollutant metals. The agreement stemmed

from the success of Dr. Michael D. Seltzer in developing an early prototype of such a device.

Near instantaneous detection

China Lake was originally approached by Naval Surface Warfare Center (NSWC) Crane Division, Crane, Ind., to identify a system capable of monitoring, in real time, airborne metals that were being emitted from an experimental pyrotechnics incinerator. Seltzer, an analytical chemist in the Research and Technology Division, obtained an inductively coupled plasma (ICP) spectrometer, which is normally used to measure the trace metal content of liquid samples. He modified the ICP to introduce a sample air stream into the plasma and detect metals in the air stream.

Seltzer's system was tested at the NSWC incinerator in 1993, and although it was limited in sensitivity and the number of metals it detected simultaneously,

measurements were obtained at 40-second intervals and were in reasonable agreement with measurements made by conventional methods. The results of conventional testing methods were not available, however, for nearly three weeks after the test. This fact punctuates the value of the near instantaneous update of metal emissions in Seltzer's system, and its attractiveness to both the public and private sectors.

EPA encourages effort

Following the success of the field tests, Seltzer submitted a patent disclosure.

Please see **MONITOR**, Page 13



Dr. Michael D. Seltzer

Save gas, time on new shuttle van ... 5
How you can participate on Earth Day ... 11
GPS Conference set April 22 - 26 ... 15

Weather



	April 3 - 9			
	High	Low	Gusts	Humidity
Wed	75	37	16	69-17%
Thurs	75	43	30	46-14%
Fri	82	54	23	—
Sat	85	39	14	—
Sun	90	41	10	—
Mon	91	48	24	35-13%
Tues	82	48	23	44-13%
April 10 - 16				
Wed	82	41	35	58-16%
Thurs	80	53	23	35-14%
Fri	76	51	30	69-15%
Sat	74	35	12	—
Sun	78	40	16	—
Mon	82	44	23	35-13%
Tues	73	55	26	52-27%

China Lake Calendar

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

Thursday, April 18

- Retiree Appreciation Day at Michelson Lab, 2 p.m.
- International Special Librarians Day open house at Technical Library, 8 a.m. to noon

Saturday, April 20

- Earth Day Cleanup, Solar Park, 7:30 a.m. to noon.

Friday, April 26

- Job Fair at the FSC, 610 Blandy, 10 a.m. to 2 p.m.

Thursday, May 2

- Native Asian/Pacific Islander luncheon; East Wing All Faith Chapel, 11 a.m.; \$5, E-6 and below; \$7, for E-7 and above and civilian

THE ROCKETEER

RAAdm. Dana B. McKinney
NAWCWPNS Commander

Capt. Chuck Stevenson
NAWSCL Commanding Officer

Steven F. Boster
Public Affairs Officer

Barry McDonald
Editor

Kathi Ramont
Staff Writer

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

The editorial content is edited, prepared and provided by the Public Affairs Office of the Naval Air Warfare Center Weapons Division China Lake.

Correspondence and material for THE ROCKETEER should be addressed to: Editor, THE ROCKETEER, Commander, Code 750000D, NAWCWPN, 1 Administration Circle, China Lake, CA 93555-6001; or they may be transmitted by QuickMail to Barry McDonald. (If unable to find this name: under the QuickMail menu select Directory Services, then select CL_HQ zone, NAWSTAFF_MC mailcenter.) Fax information to 939-2796, or call 939-3354. E-mail address is barry.mcdonald@mail.chinalake.navy.mil.

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.

Advertising is the sole responsibility of High Desert Newspapers, Inc., 224 East Ridgecrest Blvd., Ridgecrest, CA 93555, (619) 375-4481.

Advertising deadline is noon, the Friday before publication.



DLA rep here April 22 to answer your questions

Al Bertleff, from the Defense Logistics Agency (DLA), will be here April 22, from 8 a.m. to 4 p.m., to field any questions, concerns, complaints and suggestions relative to any support provided by DLA to China Lake customers.

If you would like to schedule an appointment with Bertleff on April 22, please contact Barbara Tunget at 939-7005. If you receive a voice message, please leave your name and phone number and you will be called back as soon as possible. Appointments may be scheduled in the Conference Room at Building 1033, Planning and Administration Division (Code 822100D), or at your office.

The Defense Logistics Agency has had, for a number of years, a customer assistance and outreach program designed to familiarize customers with the DLA organization and operation, provide support relative to any aspect of the DLA mission and to serve as a single point of contact for the agency, which customers are encouraged to utilize whenever necessary.

As DLA reorganizes, the customer assistance program is also changing as part of the DLA Headquarters Readiness requirements of all its customers. The focus on readiness is not limited to the traditional hardware support areas.

The focus extends, as well, to ensuring you quality support of all commodities managed by DLA, including subsistence, medical items, clothing and fuels.

Furthermore, they stand ready to assist you regarding support for all other mission areas assigned to DLA as well. This encompasses support from the Distribution Depots, Defense Logistics Services Center and Defense Redistribution and Marketing Service.

DRMO auction set for May 7

Local auction 41-6206 will be conducted by the Defense Utilization and Marketing Office (DRMO) on Tuesday, May 7. You may fax your bid or drop your bid off at the sale site. Faxed bids and dropped off bids will be accepted until 3 p.m. on May 6. Bids received after 3 p.m. will be considered as non-responsive.

The items will be on display for inspection May 1, 2, and 6 from 7:30 a.m. to 3 p.m., and on May 7 from 7:30 to 9:30 a.m. A complete list as well as sales terms and conditions can be seen at the DRMO in Building 1073. DRMO China Lake will be closed on Friday, May 3.

Registration for this sale will begin May 1 and continue until the last item is sold. Mailed bids will not be accepted. Items purchased may be removed on the sale date provided full payment is made. Deposits are not required. Payment must be in cash or a guaranteed instrument, i.e. cashiers check, travelers check, money order. Visa and Mastercard will also be accepted. Purchasers will have until May 14 to pay and remove items.

Because the DRMO is located within the Naval Air Weapon Station's interior security fence line, bidders must stop at the Visitors Center and obtain a pass before coming aboard. For further details, contact Phyllis at the DRMO, Building 1073, (619) 939-2502/2538.

New look to airline tickets

According to personnel in China Lake's official travel office, airline tickets are now printed on thermal paper stock which is sensitive to heat. This stock is used by all airlines and travel agencies, including locations in tropical and arid countries. To avoid inconvenience during your travel, official or vacation, do not leave tickets in direct sunlight or high temperature. The magnetic strip on the back contains your luggage information. If you have questions on the new tickets, please call the SATO office at 446-9057 or call Customer Service at the Personnel Support Activity Detachment at 939-3314.

DFAS relocates on May 15

The Defense Finance and Accounting Service (DFAS) Accounting Branch located in Building 02483 is scheduled to cease operations May 15, 1996. DFAS-China Lake Accounting Branch workload is transferring to DFAS-Point Mugu until July 15, 1996.

For additional information, please contact the current site manager, Diane Skrivane, 939-2141, or DSN 437-2141. After May 15, please contact Art Mann, branch chief, DFAS-Accounting Branch, Point Mugu at DSN 351-8551 or commercial (805) 989-8551.

Pages From The Past

April 18 & 25, 1986

Roy Parris appointed Director of Safety and Security... Milton Ravsten receives Technical Director's Award for contribution to Tomahawk program... Gerald R. Schiefer approved as new Technical Director... Bonni Smith wins Commander's Award for documentation tasks in support of Center's mission... Gary Ozunas and Robert Sellers receive Technical Director's Awards for work on Skipper missile... Blue Angels, VX-5 top Sunday's air show... Pat Rizzardi receives Special Act Award for work on DEC maintenance contract.

April 16 & 24, 1976

B-29 Bomber headed for Yesterday's Air Force Museum in Barstow... Briefings held at NWC on Navy's Air Installations Compatibility Use Zone Program... NWC battered April 15 by windstorm with gusts up to 65 mph... Dr. Jane Goodall, expert on life of chimpanzee, to present lecture at Center Theater... Doug Elliot, acting head of the Atmospheric Applications Branch of the Research Department's Earth and Planetary Sciences Division, spotlighted employee of the month.

April 15 & 22, 1966

CURV retrieves bomb from ocean bottom... Milt Mollick spotlighted China Lake Community Councilman... Chaplain Odell leaves for duty with sub force at New London, Conn... Dr. William B. McLean, NOTS technical director, keynote marine sciences meeting... "Mark-1 Eyeball" study being conducted at NOTS.

April 20 & 27, 1956

Secretary of the Navy Charles S. Thomas to visit China Lake April 23... SNORT holds open house for family and friends... China Lake employees receive \$3,250 in Incentive Awards... Engineering Department will hold mammoth barbecue May 6... Helen Michel, NOTS first station recreation director, arrives at NOTS... Raise in starting salaries for engineers for third time in 12 months... Former station Commander RAAdm. P. D. Stroop attends NOTS Conference.

COMMUNITY EVENTS

Tonight, Thursday, April 18, the 1996 Committee for Safe Graduation will be holding a planning meeting at the Burroughs Library at 7 p.m. All senior parents are welcome to attend. If you would like to make a tax-deductible donation, please send it to committee treasurer Sandy Gamble, P.O. Box 2241, Ridgecrest, CA 93556. Future meetings are scheduled for May 2, 16 and 30.

China Lake Players are asking for 1996 scholarship applicants to begin preparing their submittals for a \$750 scholarship. Applications must be received at P.O. Box 231, Ridgecrest, CA 93556-0231 no later than April 30. For more information please call Tom Jones at 375-5906 or Terrie Daley Owens at 375-9385.

Cerro Coso will host its Twelfth Annual Invitational Art Workshop on April 19 and 20 and will include sculpture with artist Sanford Decker, and ceramics with Kent Rothman, director of ceramics at the Mendocino Arts Center.

The Friday evening presentation is open to the general public. This presentation will be held at 7 p.m. on Friday, April 19, in the Cerro Coso Lecture Center. For further information, contact the Cerro Coso Art Department at 375-5001.

There will be a trap shoot at the NAWS Trap and Skeet Club on Sunday, April 21, at 9 a.m. Please call Dave Ciaramitaro at 446-5921 before Sunday morning if you want to shoot. The club range is located near the clubhouse. Just look for the skeet towers. Cost is \$1.50 per line for club members, \$2 for non-members.

Sleeping Beauty's ballet will be performed in the Cerro Coso Lecture Center, Saturday, April 20, at 7:30 p.m. and on Sunday, April 21, at 2 p.m. Tickets are \$3 for children 12 years and under and \$5 for adults. Tickets are available at the Cerro Coso Business Office and the Village Bookshelf, 901 N. Heritage Drive. For more information, please call Cerro Coso at 375-5001.

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RENTALS.....20
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BUSINESSES.....30
AUTOMOTIVE.....35
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DO YOU HAVE HARD WATER SPOTS? Space Age Technology. Provides Soft Water Benefits For Residential & Commercial Applications. 1. No Salt. 2. No Service. 3. No Maintenance. 4. Money Back Guarantee. Call Tom 375-5439. (5-16)

DISCOMFORT IN YOUR LOWER BACK? Headaches? Cold Feet? Can't get a full night's sleep? Looking for a great sideline business opportunity that is amazing and unique? I have some products and information that may help you feel better and improve your financial bottom line! Call 375-9528. (TFN)

HAVE PROBLEMS... Call me. Millie A. Wycoff, paralegal divorce, bankruptcy, taxes, notary. Reasonable fees you can afford, payment plans to fit your budget. 371-1924. (5-22)

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RENTALS.....20
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DEADLINE FOR ALL CLASSIFIED LINE ADS IS 11:00 A.M. THE MONDAY BEFORE PUBLICATION

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25 REAL ESTATE

WARM & COZY, 3 BR, 1 BA, on double lot with pool. Fireplace insert, trees, completely fenced, \$77,500. Call Dan at 375-0108. (TFN)

MOBILE HOMES for sale or rent in the nicest park in Ridgecrest. Close to base and shopping, rent \$400 and up plus utilities, sale \$17,000 and up for homes. Arrowhead. 446-2796. (TFN)

RELAX AND ENJOY THIS WONDERFUL FAMILY HOME (NEW) Green Acres is the place to be! Xeriscaping landscaping, 3 BR, 2 BA, RV access, fireplace, family and living rooms + MORE. Assure loan with 8.5% interest. Closing costs negotiable. \$97,999. 384-1084 for appointment. (TFN)

CLOSE TO SHOPPING! 3BR, 2BA Doublewide on it's own lot. Own over 1440 sq. ft. for less than most rent. Call Ronnie at 446-0113. (4-18)

VACATION RENTAL: Mammoth Area, Beautifully decorated and fully furnished 2 BR, 2 BA with 2-car garage, 2600 square foot. Rent daily or weekly. Maid service included. 446-5267. (TFN)

CLEAN 2 BR. Garage, backyard, dishwasher, refrigerator, range, dishwasher, garage. \$495 a month. 371-1144. (TFN)

NEAR BASE FRESHLY PAINTED. Spacious. Family Room, fireplace, double garage, auto sprinklers. \$625/month, no pets. 446-4810. Evenings O.K. (TFN)

\$575. Charming 3BR, 2BA, garage, immaculate. 446-4810, evenings OK. (TFN)

CUTE 2BR DUPLEX. Large yard, no pets, refrigerator, range, dishwasher, garage. \$395 a month. 446-4810 evenings OK. (TFN)

MOBILE HOMES in the nicest park in Ridgecrest. Rent \$410 and up, sale \$17,000 and up. Spaces available \$211. Arrowhead Mobile Home Park, Monday-Thursday, 2:00-5:00pm, Friday 8:00-12:00pm. 446-2796. (5-2)

AVAILABLE 5-1. SUPER, spacious 3BR, 2BA home. Family room/kitchen combo, large patio, great area, double garage, automatic sprinklers. \$675 a month. 446-4810, evenings, OK. (TFN)

ROOM FOR RENT! Nice home, \$200 a month, utilities FREE. Butterfield Acres. 377-5124. (4-18)

40 MISC. FOR SALE

CARR'S CAMPER SHELL, Ranger short bed. \$50.00. Call 384-1009. (TFN)

RADIO CONTROLLED AIRPLANE, 40 size trainer with six channel radio, light box, many accessories. Great flyer. \$350 OBO, call 375-4092. (TFN)

SUMMERS COMING...CHECK THIS OUT. GREAT STARTER BOAT. Includes a little TLC. 18' Patterson Flat Bottom. V-drive units. Everything is there, you put it together. 429 Ford. Comes with trailer, \$1,500. OBO. Call anytime 384-4663 (TFN)

EXPLORE THE FACT that WalMart and the Warehouse sell new release CDs for a whole lot more than Loewen's... Why pay more? Loewen's, 225 E. Ridgecrest Blvd. (TFN)

31' HANDMADE WOODEN WINDMILLS. Red & White, Blue and White. Can't buy them in stores. Excellent gifts. \$35.00. 446-5662. (TFN)

1979 TIAGA MOTORHOME, 22' long, 1,400 miles on new 350 engine, sleeps 6, generator, shower, \$7,000. 371-1144. (TFN)

MAC COMPUTER. New 500ms HD, ex. disk drive, case. Ideal 1st computer. 377-4670, after 7p.m. (5-2)

42 WANTED TO BUY

HAVE BUYER FOR ACREAGE in or near Ridgecrest. Suitable for mini golf. Up to \$60,000. Erik Allen, Allen Realty. 446-4810, evenings OK. (TFN)

WANTED: 45 Auto pistol. Any condition & shotgun. Retired. Call anytime. Mr. R.E. Tibbitts, USNR, (619) 378-3146. (5-16)

50 GARAGE SALES

CIRCLE GARAGE SALE - 19 & 20, April 0800-1200 - SHANGRILA CIRCLE (on-base) Multi-Family. Appliances, kids/baby clothes, toys, Nintendo w/games, Game Boy w/games, knickknacks, bedding, furniture, stereo system and much more. (4-18)

For Rocketeer Display Advertising Call Gary Heaton at 375-4481

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ABS, Leather, Air Bags, Alloy wheels & more!
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TREMENDOUS THUNDERBIRDS VALUES

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Vin# 12948
Kelley Blue Book \$17,300
NO BULL PRICE \$14,900*

1993 THUNDERBIRD
One Owner, Premium Sound, Alloy Wheels & More!
Vin# 19068
Kelley Blue Book \$14,315
NO BULL PRICE \$10,900*

1993 THUNDERBIRD
V6, Alloy Wheels, One Owner.
Vin# 06708
Kelley Blue Book \$13,865
NO BULL PRICE \$10,900*

1994 THUNDERBIRD LX
V8, ABS, Air Bags, Alloy Wheels & More!
Vin# 22583
Kelley Blue Book \$15,080
NO BULL PRICE \$12,900*

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MAGNIFICENT MERCURY VALUES

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ABS, Roof Rack, 3rd Seat & More!
Vin# 11255
Kelley Blue Book \$16,780
NO BULL PRICE \$13,900*

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V8, Air Bags, Alloy Wheels & More!
Vin# 52213
Kelley Blue Book \$17,285
NO BULL PRICE \$14,900*

1994 COUGAR XR-7
V8, Leather, Alloy Wheels & More!
Vin# 24095
Kelley Blue Book \$14,905
NO BULL PRICE \$12,400*

1993 GRAND MARQUIS
V8, Auto, Air & More!
Vin# 26262
Kelley Blue Book \$16,950
NO BULL PRICE \$14,400*

1994 GRAND MARQUIS
V8, Air Bags, Power Windows - Locks & More!
Vin# 41560
Kelley Blue Book \$17,900
NO BULL PRICE \$15,900*

1993 TRACER LTS
Auto, Air, Power Group, & More!
Vin# 64196
Kelley Blue Book \$11,790
NO BULL PRICE \$9,900*

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Vin# 32351
Kelley Blue Book \$17,015
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1995 TAURUS GL 4DR.
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Kelley Blue Book \$16,950
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Vin# 53804
Kelley Blue Book \$20,450
NO BULL PRICE \$17,900*

1994 PROBE SE
Vin# 68293
Kelley Blue Book \$14,935
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Vin# 15602
Kelley Blue Book \$10,170
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Vin# 63451
Kelley Blue Book \$17,005
NO BULL PRICE \$13,500*

1994 TAURUS GL 4DR.
Vin# 78682
Kelley Blue Book \$14,770
NO BULL PRICE \$12,300*

1994 MUSTANG LX
Vin# 01447
Kelley Blue Book \$16,320
NO BULL PRICE \$13,400*

1994 CROWN VICTORIA LX
Vin# 31002
Kelley Blue Book \$18,915
NO BULL PRICE \$15,900*

1993 CROWN VICTORIA
Vin# 46130
Kelley Blue Book \$15,325
NO BULL PRICE \$12,300*

1993 MUSTANG LX (V8)
Vin# 09361
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Howard regrets retiring but could be fishing on the Gulf of Mexico in just 15 minutes

By Kathi Ramont
Staff Writer

"I'm regretfully looking forward to retiring," commented Cdr. Gregg "Slick" Howard in an interview before his retirement ceremony Friday, April 12. "The Navy has been a blast. For 24 years the Navy has let me do exactly what I wanted to do — which was fly. I'm going to miss the flying and the people."

Howard, executive officer at the NAWS for the last 18 months, has been CO Capt. Chuck Stevenson's right-hand man. He has been heavily involved in quality of life and MWR issues at NAWS.

"It's been my job to give advice in certain areas," he said. "To give my slant . . . not to be just a 'yes' man, but to provide my input to the decision-making process. I'm real proud of the quantum improvements in MWR and with the Neighborhoods of Excellence Program. Right now the residents might not be too pleased to have bulldozers in their backyards, but when the improvements are done, I think they'll really be impressed with the improvements to the housing and yards."

"Take a look around the base — in the last year you've seen a new commissary open, a McDonalds restaurant, new jogging and walking paths, the military quarters have all been remodeled — there's been a lot of changes. The Navy Exchange is going to take over the old commissary space and that store will be bigger soon. The Child Development Center will be finished before the end of this summer. . . I didn't start these improvements, but I'm proud to have been a part of seeing them come to life."

"We've got some good people here," Howard said. "Working with the policies

of Capt. Stevenson, you tell them what you'd like to accomplish and just turn 'em loose. 'Unique' is really an overworked word, but that's really the only word to describe the people here." Howard singled out Public Works Officer Capt. Andy Ritchie and Alonzie Scott, head of MWR.

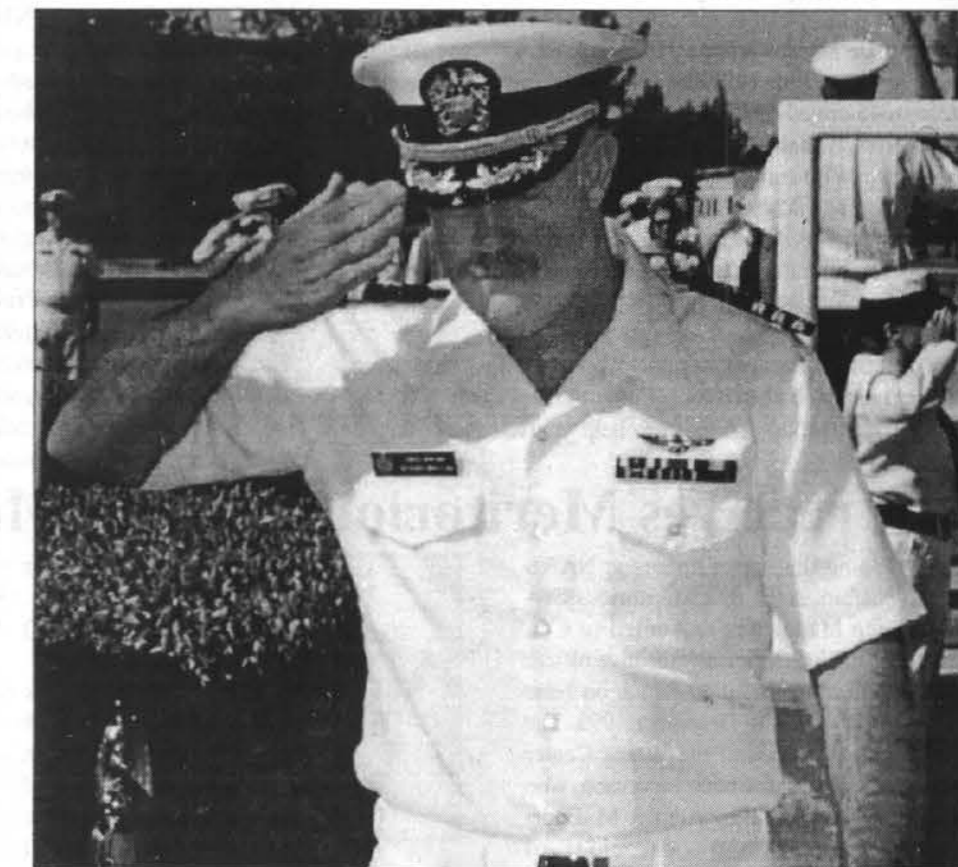
Looking back over his Naval career, Howard recalled, "Easily the highlight of my career was the six years I spent with Top Gun." He flew twice a day, every day as an adversary pilot, training Navy pilots at Naval Fighter Weapons School. He flew air combat maneuvering hops. "It was marvelous. The Navy was paying me to go out and have fun every day," he laughed. He accumulated more than 4,000 flight hours in F-4, F-14 and A-4 aircraft.

"He came. He flew. And he left," according to NAWS CO Capt. Chuck Stevenson at Howard's retirement ceremony. That just about summed up Howard's time at China Lake. But Stevenson then went on to say that Howard has been his confidant and advisor. "He wouldn't lie to me, and he always tells it straight," he said.

Stevenson then presented the Meritorious Service Medal to Howard. He also presented a letter of appreciation to Howard and one for his wife, Anne; a shadowbox chronicling Howard's career; a certificate of appreciation from President Bill Clinton; and, most important of all, his certificate of retirement.

A native of Hyden, Ky., Howard graduated from Southern High School in Louisville in 1968. Attending the University of Louisville in the NROTC program, he graduated with a bachelor of arts degree in political science in 1972. Howard was commissioned an ensign in 1972 and has never been "out of the cockpit" since

MILITARY NEWS



PIPED over the side at the end of his retirement ceremony April 12, Cdr. Gregg "Slick" Howard, NAWS executive officer, heads toward home on Ono Island, Ala.

then. His early tours of duty were with East Coast fighter squadrons deployed to the Mediterranean. In March 1984 he reported as operations officer to Fleet Composite Squadron Five (VC-5) at Cubi Point, Republic of the Philippines. After three years, he went to Top Gun, and then on to another three years of flying as a threat pilot with Fighter Squadron Forty-Three (VF-43) at NAS Oceana, Va.

In February 1990, he reported to Commander Training Air Wing One (CTW-1) at NAS Meridian, Miss., as the chief of staff. He arrived at China Lake in August

1994. While his future employment plans are still unconfirmed, he wants to continue flying — perhaps with a commercial airline. Another option is to join up with a family construction and real estate company. He is moving back to his home on Ono Island in Alabama near the Florida border, where Anne continued to live during his tour here.

"In fifteen minutes I can be out my door, onto my 18-foot speed boat and be fishing in the Gulf of Mexico," he said with a smile.

So you're over 18 and in the Navy: that no longer entitles you to drink and get away with it

"Sailors under the age of 21 account for 13.2 percent of the total Navy population, but are responsible for 23 percent of Navywide alcohol related incidents," said Adm. Mike Boorda, chief of naval operations, when speaking about the recent policy change that eliminates underage drinking at all Department of Navy activities.

"More than our high-tech equipment, superior tactics or unparalleled logistics, it is our people who make us the best Navy in the world, and any threat to them must be dealt with quickly and decisively. Alcohol abuse and the incidents it causes impair our readiness and reduce the quality of life of our Navy team."

This policy change became effective April 1. In the past, underage Sailors were allowed to drink alcohol at certain command events on Station. There are no longer any exceptions to state drinking age laws. The sale, purchase, possession and consumption of alco-

holic beverages at all naval installations shall conform to drinking age limitations of the state or country in which it is located. Ships units visiting foreign ports will also conform to local country law. In no case will drinking be permitted below the age of 18. The legal drinking age in all states, except Louisiana, is 21.

According to MSC(SW) Carlton Pederson, China Lake's Drug and Alcohol Program advisor (DAPA), "The Right Spirit," an alcohol abuse, prevention and deglamorization campaign, will soon be available Navywide for all personnel, from seaman recruit to admiral, on the dangers of alcohol. "A plan of attack is currently being organized by the Navy," the DAPA said. "But for now, the 'Prevent' program is offered to China Lake personnel."

The DAPA's office provides reliable information on the harmful effects of drug and alcohol abuse to Navy personnel and their dependents.

A class, for all active duty personnel, called "Personal Responsibility and Values Education and Training," will be held May 20-23 in the Coso Room of the Conferencing Center.

You can sign up for this training or get more information by contacting Pederson at the Headquarters Building, Room 214, or calling him at 927-1550.

Pederson stresses the importance of shipmate responsibility. "Shipmates take care of shipmates," he said. "All of us must be aware of the warning signs of alcohol abuse and must take positive steps to ensure shipmates stay on the right course."

"This requires intervening before excessive drinking occurs, stopping a shipmate from driving while under the influence of alcohol and immediately challenging inappropriate behavior resulting from alcohol use, both on or off duty. Remember, we are shipmates 24 hours a day."

Family Service Center Scene

Job Fair

The FSC is sponsoring a Job Fair on April 26 from 10 a.m. to 3 p.m. at 610 Blandly. A variety of employers will be present. Be sure to bring a typed resume with you. If you don't have a resume or need to update the one you have, call 9276-1545 or 939-0966 for an appointment.

Classes available

The NAWS Family Service Center (FSC) sponsors a variety of training classes. All classes are held at the Family Service Center, 610 Blandly Ave., unless otherwise stated. They are open to all military members and their families. Civilians and contractors are welcome on a "space available" basis.

Classes

April 30, 8-10 a.m., Resume Workshop. Your resume is your primary job search tool. Come to class (with your job history, if possible) and learn to help yourself by writing a

job-winning resume and cover letter. Space is limited and registration is required. Call 927-1545 by close of business on April 11.

April 30, 3-4:30 p.m., Credit Management. Need to have a better understanding of your credit? Find out what a credit check and a credit report include and how to get a copy. Learn to do your own credit "check-up." Registration is required. Call Karen at 939-1018 by close of business on April 29.

May 14, 1-5 p.m., DANTES Testing. This covers CLEP (College Level Examination Program) and DSSTs (DANTES Subject Standardized Tests). CLEP tests are usually for freshman and sophomore courses. DSSTs are comparable to the final or end-of-course exam in college or technical subjects. Testing is free to the military. Family members can use this service, but a fee of \$40 for CLEP and \$25 for DSSTs is charged. Registration is required. Call Joan at 939-0966 by close of business one week before testing date.

April is Child Abuse Prevention Month

The month of April symbolizes growth, rebirth and hope. This is why Healthy Families of America has chosen April as the Child Abuse Prevention month. Being a parent in today's world is a difficult task.

To many parents, understanding their children is a virtual

impossibility, and a sense of ineffectiveness has sometimes blurred the boundary between disciplining and abuse. The growth and development of our nation's children into healthy adults requires community effort, as child abuse is a community prevention.

In 1994 there were three million reported cases of child abuse and neglect. In 1995, there were one million confirmed cases of child abuse. Fatalities by abuse and neglect for 1994 were 64 percent by abuse, 42 percent neglect and four percent by both abuse and neglect. Sadly, the age of death for the majority of children was under five years old.

Healthy Families of American joined with the Ronald McDonald Children's Charities in 1992 to find solutions and promote prevention-education. As part of the annual campaign here in China Lake, the Family Service Center is hosting an informational seminar on April 22 from 4:30 to 5:30 p.m. The seminar will be facilitated by Cindy Collins from the Child Abuse Project.

Studies show that early recognition, involvement and reporting can aid the families in distress and help communities in the effort to stop child abuse. You can't always plan those moments that make a difference, but you can choose what to do with them. For information, contact the FSC at 927-1545.

Yri receives Meritorious Service Medal; 12 others, achievement medals

Topping the list of honors at NAWS quarters April 8, a Meritorious Service Medal was presented to Cdr. Bryan L. Yri for service as executive officer at Air Test and Evaluation Squadron Nine from January 1993 to December 1995. The medal was presented at the Wreck Center by NAWS CO Capt. Chuck Stevenson, who read from the citation by Adm. J. M. Boorda, chief of naval operations.



Yri

Yri's "personal involvement has been essential to the aggressive evaluation of numerous high priority CNO projects and the resulting enhancements in fleet aircrew combat readiness and operational proficiency," Boorda wrote, and went on to note Yri's contributions to the consolidation of VX-5 and VX-4 into VX-9.

A Navy and Marine Corps Commendation Medal was presented to SKC(SW) Romeo V. Lamarca for service as supply supervisor, Military Sealift Command Unit Diego Garcia from November 1994 to



Lamarca

recognition for service as an aviation storekeeper, Supply Department, Helicopter Combat Support Squadron Five from April 1995 to January 1996.



Carlock

Letters of commendation from Capt. Stevenson were presented to MA2(AW) Patrick D. Olli and AK3 Gregory P. Laube.

Good Conduct Awards went to ABH3 Marco V. Chavarria and AKAN Bernadette A. Reeder.

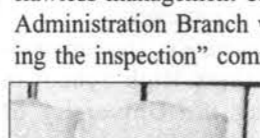
Lamecia Rockey received a letter of

appreciation for her services as NAWS command ombudsman. Stacie Wheeler was appointed new family ombudsman.

VX-9

At Air Test and Evaluation Squadron Nine (VX-9) quarters held on Feb. 23, 10 Sailors were presented Navy and Marine Corps Achievement Medals from Commander, Naval Air Force, U.S. Pacific Fleet Maintenance Program Assist. That January inspection resulted in grades of "on track" with zero discrepancies. The medals were presented by Capt. Craig F. Weideman, VX-9 CO.

AZ3 Jason D. Murphy served as Maintenance Administration supervisor for VX-9 from October 1995 to January 1996. "Your flawless management of the Maintenance Administration Branch was validated during the inspection" commented Capt. Weideman.



Murphy

"Inspectors stated that this was the only maintenance administration to have received zero discrepancies." During the

same inspection, AE2 Ivo T. Graeve's preparation for the visit resulted in a zero major discrepancies grade for the squadron's Plane Captain Program, which encompasses four type/model/series aircraft and over fifty personnel, commented Weideman. He also contributed to the F/A-18 Line Division preparations for the inspection.



Graeve

The achievement medal also went to AMH2 Harry O. Burke, who was Hydraulic Contamination Control Program manager for VX-9 from October 1995 to January 1996. He completely overhauled the Hydraulic Contamination



Burke

Please see **QUARTERS**, Page 6

All Faith Chapel Services

Equipment for the hearing impaired and nursery are available

Protestant

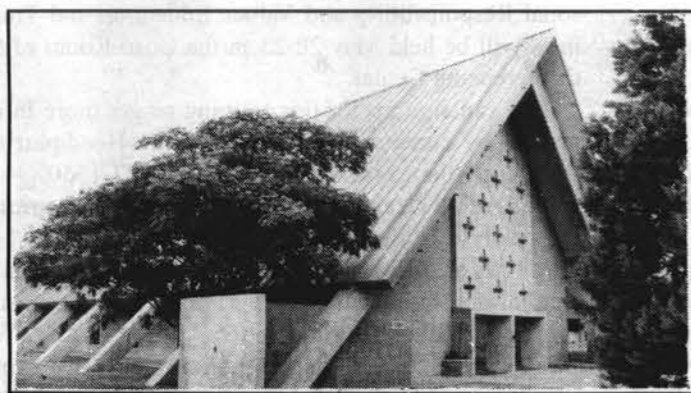
Sunday Worship Service, Main Chapel 10:30 a.m.
Sunday School, Sept. - May, 1008-10 Blandly & 1903-05 Mitscher 9:00 a.m.
Bible Study (East Wing), Sept. - June, Wednesday 11:30 a.m.
Men's Prayer Breakfast, East Wing, Thursday 6:00 a.m.
Adult Bible Study, East Wing, Thursday 7:00 p.m.
Jewish (446-3613 Messages)
Weekly Services, Friday, East Wing 7:30 p.m.
Adult Education, Oct. - June, Saturday, 1902 Dibb 10 a.m. - noon
Hebrew Classes, Oct. - June, Saturday, 1902 Dibb 2-5 p.m.
Religious School, Sept. - June, Sunday, 1902 Dibb 9 - 11 a.m.
Jewish Classes (when Rabbi is here)
Four years and up: Friday, 1902 Dibb 5 - 7 p.m.
Sunday, 1902 Dibb 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 8:15 - 8:45 a.m.
Confessions, Weekdays By appointment
Religious Education Classes, Sept. - May, Sunday, 1002 Blandly, 1008-10 Blandly & 1903-05 Mitscher 10:30 a.m.
RCIA, St. Ann's School Library 8:15 - 9:45 p.m.

Islamic

Jumaa Prayer, Friday (1002 Blandly) 1 p.m.



Chaplain Patrick J. McCormick, LCDR., CHC, USN
Chaplain C. Allan Ford, LT., CHC, USNR
Chaplain Steve Leapman, LT., CHC, USNR
Peter Levi, student rabbi

Office Hours Monday-Friday, 7:30 a.m. to 4:30 p.m.

939-3506, 939-2773, 939-2873

REC BITS



MWR Management Team, NAWS, China Lake, CA



DAVE CONRADES



Ludo Vika

It's wild. It's live comedy

Wreck Center hosts another "laugh in" tomorrow evening at 8:00 p.m. Comics include Marquez the great, Zooman and the phenomenal Darren Carter. Laughter continues on May 3 with two great stand-up comics at 8:30 p.m. for the "I Love Ludo" show. Don't miss this unique comedy show filled with best of the past mixed with humor trends of the present.

Ludo Vika is hot and sassy with her husband Dave Conrades-completing this exceptional "don't miss" show. Advance tickets available at the Wreck Center. Reservations are highly recommended due to increased popularity of event. Military are free and all others pay \$6.00 per person. DJ/VJ follows with beverage and menu specials before and after show.

For details, call 939-8660.

Discover a new world

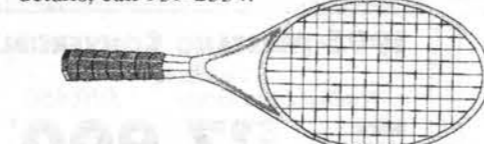
Scuba Classes now offered at the Sports & Fitness Center for ages 16 and up. Free Information meeting to greet instructor, ask questions, see the equipment and slides, is Monday, April 29 from 5:30 p.m. to 6:30 p.m. in the Gym Annex. Class begins Monday, May 6 from 6:00 p.m. to 10:00 p.m. Cost Includes: Use of mask, fins, snorkel, booties, tank, regulator, BCD, wet suit, hood and weight belt. Course covers lectures, pool practice and basic diving techniques. In order to offer course, Sports & Fitness Division require a minimum of 8 and a maximum of 12 students. \$40.00 nonrefundable deposit due by May 3, 1996 at the Sports & Fitness Complex. Remainder of course fee is \$200.00 for military, \$210.00 for DoD and \$220.00 for Community. Fees must be paid in full before May 6 at 6:00 p.m. For details, call Jenny Slater at 939-0756.

Be water wise

American Red Cross course gives you the opportunity to become certified to teach swim lessons and basic water safety courses. Format of the course includes a pre-test swim, Instructor Candidate Course, lecture, on hands learning in the water, written test, skills test and practical teaching exam. Water Safety Instructors Course is for swimmers 17 years of age and older who pass the pretest swim. This is a certification course- teaching American Red Cross swim lessons and basic water safety courses. Training at the Indoor Pool begins May 18 and 19 or June 1 and 2 from 8:00 a.m. to 12:00 noon or 1:00 p.m. to 4:00 p.m. Classes on May 22 and 29 are held from 4:00 p.m. to 8:00 p.m. Sign-up at the gym front desk by May 14. Course fee is \$40.00 and book fee is \$45.00. For details, call Jenny Slater at 939-0756.

Tennis anyone?

Sports and Fitness Complex announces a new summer tennis program instructed by tennis professional Gary Ferguson and begins May 6. Classes are held in the King Street Courts every Tuesday and Thursday from 5:00 p.m. to 7:30 p.m. Classes are for all ages and skill levels. For details, call 939-2334.



	Military	DoD
Pee Wee (30 Minutes of Instruction)		
5:00 p.m. to 5:30 p.m.		
1 class	\$7.00	\$9.00
2 classes	\$12.00	\$15.00
Beginning/Intermediate/Advanced (1 Hour of Instruction)		
5:30 p.m. to 6:30 p.m.		
6:30 p.m. to 7:30 p.m.		
1 Class	\$13.00	\$16.00
2 Classes	\$24.00	\$30.00
Individual Instruction		
1/2 Hour Rate	\$13.00	\$16.00
* Minimum of 3 players per group required.		

The Personal Touch

One-on-one fitness assessments are available at the Sports & Fitness complex by appointment. Why pay hundreds of dollars when you have this service at your finger tips for only \$10.00 for military, \$15.00-DoD and \$20.00 for community customers. Assessments include VO2 Max, nutrition, strength and body fat analysis. Sports and Fitness also has a Health First™ computerized system that provides fitness profiles in the following areas: blood pressure, cardiovascular sub max VO2, strength, flexibility, body composition, heart disease risk, cancer risk and nutrition habits. Call today. For details, call Loy Vincent at 939-2841.

Strike down summer heat

Make your summer sizzle. Hall Lanes announces a new 14 week, military and spouse bowling league. Begins May 7 and is held every Tuesday evening at 6:00 p.m. Fees are \$8.00 per person/week. For details, call John Pirotska at 939-3471. Sign-up today.

A fair with different flare

Youth in our community are invited to a free special fitness event held on Saturday, May 11 from 9:00 a.m. to noon at Solar Park and pool area. Fair promotes youth physical fitness! Kids of all ages and adults- roam Solar Park, see great demonstrations, find out what's available in coming summer months, participate in games, lessons and listen to speakers on Karate, Ballet & Jazz, personal trainers showing proper techniques in weight training and stretching routines, youth soccer, roller blade/hockey techniques and swimming and water safety. Special appearance by Sheryl Marie Dunaway and her ballet group perform a fitting recital at 9:30 a.m. followed by the city of Ridgecrest demonstrating youth gymnastic techniques. That's not all. The temperature will be perfect for the Dunk tank. Give you any ideas? Fitness also comes from within. Lorraine Baty, registered dietitian, has a booth for games, information and looks forward to your nutritional questions. For details about this unique and exciting event, call Loy Vincent at 939-2841.

Military Highlights

Maverick magic

Military baseball fans wanted! Travel to Maverick Stadium on April 27 and see a great spring game between the Mavericks and the Modesto A's. That's not all. Krazy George makes a special appearance at this game. On May 11, the sports fun continues with a game between the Mavericks and Bakersfield Blaze. The game ends with a fireworks display. Game times are 7:05 p.m. and van departs from the CBQ parking lot at 3:15 p.m. Fee of \$6.00 per person/per game includes transportation and stadium entrance. For details or to sign-up, call Charmaine at 939-2010. Sign-up today! Space is limited.

Poker ride

Mountain biking at its best! Take a trip to Kennedy Meadows on May 18 for a poker ride at 9:00 a.m., and return between 4:00 p.m. and 6:00 p.m. There are 7 stops. Get a card at each stop and top three winning hands get a prize. Bring your lunch and water. Sports Division provides everything else-including bike and mandatory helmet for only \$15.00 per person. If you have your own bike, price is \$10.00. Helmets are mandatory. Event for active duty military. For details, call Charmaine at 939-2010. Space is limited. Hurry and sign-up by May 10.

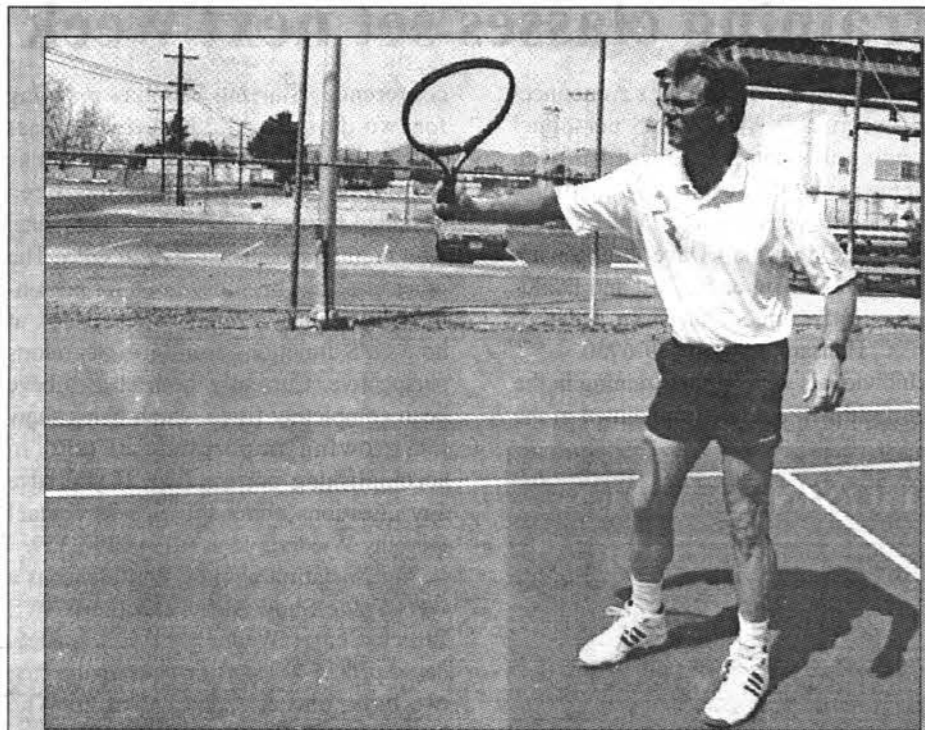


Photo by Kathi Ramont

TENNIS ANYONE? For all you tennis fans, Morale, Welfare and Recreation is offering group tennis lessons on Tuesdays and Thursdays with Gary Ferguson, starting on May 7. For the last 20 years Ferguson has played tennis continuously and has competed in numerous amateur tournaments in Southern California. Peewee classes (ages 8 to 11) will be held from 5 to 5:30 p.m. Fees for a single class are \$7 for military and \$9 for DoD. For two classes, the fees are \$12 military and \$15 for DoD. Beginner instruction (12 and above) classes run from 5:30 to 6:30 p.m. Fees are \$13 for military and \$16 for DoD. For 2 classes the fees are \$24 military and \$30 for DoD. Intermediate/Advanced classes are held 6:30 to 7:30 p.m. The fees are the same as beginner instruction. By appointment only, Ferguson will teach individual instruction at a half hour rate, military, \$13, DoD, \$16. Please call the gym at 939-2334 and sign up for your class. You must pay in advance.

Mad Dash

Marines' annual run/walk supports local charities

AND THEY'RE OFF—Two hundred and fifty-six people, and a dozen dogs, took part in the Marine Aviation Detachment's annual "MAD Dash" last Saturday morning. According to CWO3 Tom Wangler, the dash is the Marines' prime fund raiser. The money goes to offset the cost of enlisted members tickets to the Marine Birthday Ball and to support local charities such as the Navy/Marine Corps Relief Society, the Red Cross and the DARE Program. In the 10K run, first place male runner was Terry Ashton with a time of 37:24. Erin Beal was first place female runner with a time of 45:58. Col. John Moyer (shown in picture, right side, behind female runner) came in with a respectable time of 55:13.

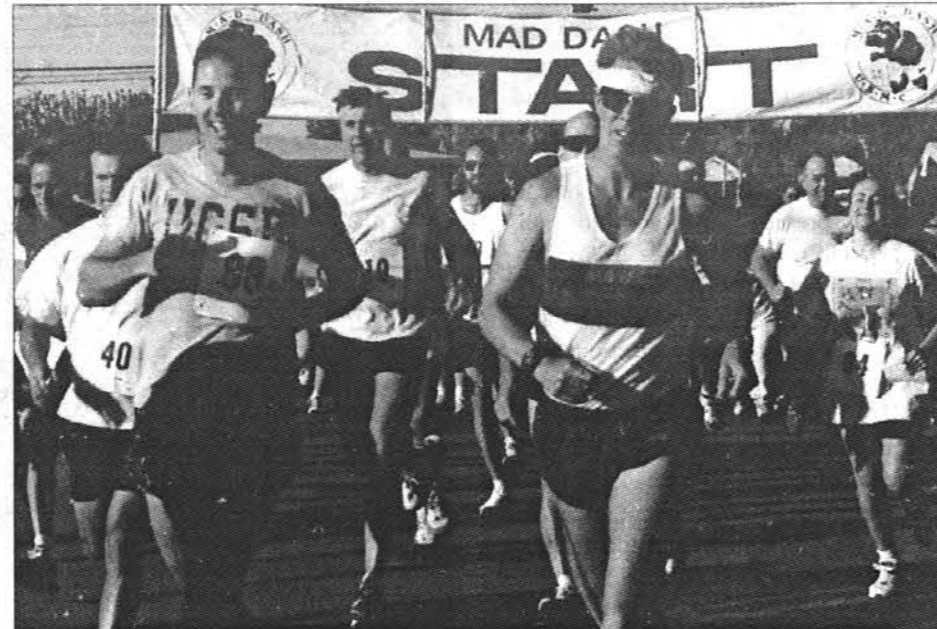


Photo by Kathi Ramont

New free shuttle service saves you gas and time

Tired of wasting your gas driving back and forth to the airfield? Need time to go over your presentation one last time, or catch up on your reading while someone else does the driving?

DoD and contractor personnel on official business. This 15-person, fare-free van runs between mainsite and Armitage Field several times each work day.

Willis, the van's schedule is on a trial basis. "Once we see what the ridership is, and get all the kinks out of the system, we'll post permanent 'Shuttle Stop' signs."

NAWS has a new shuttle van service for military,

There are currently 10 stops, but according to NAWS Command Master Chief AOCM(AW/NAC) Bill

Please clip and save this schedule.



Photo by Kathi Ramont

ON THE GO—Shuttle van driver Ralph Conner, of Day and Zimmerman, looked a little lonely when he pulled into Stop 2, between PSD and Headquarters Building, last Friday. Shuttle service between mainsite and the airfield is available free of charge to military, DoD and contractor personnel. Besides, Conner can use the company.

Cut it out!
Shuttle Schedule

Morning			Lunch		
Arrival	Depart	Stop	Arrival	Depart	Stop
6:15	6:17	1	11:30	11:32	H 1
6:20	6:22	5	11:35	11:37	H 3
6:23	6:25	6	11:41	11:43	H 2
6:39	6:41	H 1	11:57	11:59	7
6:44	6:46	H 3	12:02	12:04	6
6:50	6:52	H 2	12:05	12:07	5
7:06	7:08	1	12:08	12:10	4
7:11	7:13	5	12:13	12:15	3
7:14	7:16	6	12:17	12:19	2
7:30	7:32	H 1	12:20	12:32	1
7:35	7:37	H 3	12:33	12:35	2
7:41	7:43	H 2	12:37	12:39	3
7:57	7:59	1	12:42	12:44	4
8:00	8:02	2	12:45	12:47	5
8:04	8:06	3	12:48	12:50	6
8:09	8:11	4	12:53	12:55	7
8:12	8:14	5	1:09	1:11	H 1
8:15	8:17	6	1:14	1:16	H 3
8:20	8:22	7	1:20	1:22	H 2
8:36	8:38	H 1	1:36		1
8:41	8:43	H 3			
8:47	8:49	H 2			
9:03		1			

Stops

- 1 CBQ parking lot
- 2 Parking lot between PSD and Headquarters Building
- 3 Harpoon CBQ — starts after building is reopened
- 4 Parking lot between gas station and McDonalds
- 5 Pinnacles/Portals visitor quarters
- 6 U-shaped Bachelor Quarters
- 7 Parking lot behind Branch Medical Clinic
- H 1 — Parking lot 3 by VX-9 (Hangar 1)
- H 2 — Parking lot 1 by Air Terminal (Hangar 2)
- H 3 — Parking lot 2 by WTS (Hangar 3)

Afternoon

Arrival	Depart	Stop
3:00	3:02	1
3:03	3:05	2
3:07	3:09	3
3:12	3:14	4
3:15	3:17	5
3:18	3:20	6
3:23	3:25	7
3:39	3:41	H 1
3:44	3:46	H 3
3:50	3:52	H 2
4:06	4:08	1
4:09	4:11	2
4:13	4:15	3
4:18	4:20	4
4:21	4:23	5
4:24	4:26	6
4:29	4:31	7
4:45	4:47	H 1
4:50	4:52	H 3
4:56	4:58	H 2
5:12		1

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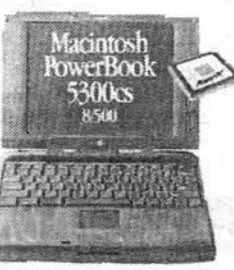
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- 7200/75 8/500/CD\$1,139
- 7200/90 16/500/CD\$1,549

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QUARTERS from Page 6

Control Program and rewrote the qualification test, revised the squadron's instruction and ensured all analysis kits were in superior material condition. As a result, his program was graded "on track" with zero major discrepancies during the maintenance program assist visit.

Also earning an achievement medal (gold star in lieu of fourth award) for performance during this inspection, AT1(AW) Harris W. Minster served as Squadron Support Equipment Planned Maintenance System Program manager from October 1995 to January 1996. "You aggressively reviewed and updated over 200 support equipment historical files, ensuring full compliance with all Naval Aviation Maintenance Program requirements," commented Weideman. "As a direct result, your program received a grade of "on track" with laudatory comments."

SSgt. Robert J. Herwig, who served as Hover Branch supervisor for VX-9 from October 1995 to January 1996, also received the NMCAM. "Maintenance inspectors were impressed with the meticulous attention to detail reflected in all 15 programs under his cognizance," said Weideman. He planned, directed and completed all maintenance requirements well in advance of mandated deadlines.

Another "on track" score (and the



Minster



Herwig



Graham



Johnson



McCormick

NMCAM) was given to AD1 Frank H. Graham who served as Tool Control Work center supervisor from October 1995 to January 1996. He planned, directed and completed all maintenance requirements well in advance of mandated deadlines.

AMS 1 Randy W. Johnson served as Corrosion Control Branch supervisor from October 1995 to January 1996. "Your management of the command's Corrosion Control and Emergency Reclamation programs was superb," said Weideman.

For duties as Quality Assurance Representative from October 1995 to January 1996, AD1 Richard L. McCormick received his NMCAM (gold star in lieu of fourth award). "As a result of his efforts, six managed and 27 monitored Quality Assurance/Analysis Division program areas were graded "on track" with zero major discrepancies," commented Weideman.

AT1 John R. Jenquine received his NMCAM (gold star in lieu of second award) for service as Technical Directive Program manager from November 1995 to January 1996. "He developed and implemented two complex computer programs for tracking technical directives and over 1,300 scheduled removal components and equipment history record components," said Weideman.

The final NMCAM went to PR1 Clinton P. Hoffman for performance as Aviator's Equipment Branch leading petty officer for VX-9 from October 1995 to January 1996. "Despite a reduced work force and a 50-percent increase in workload, his management and tracking of over 60 sets of aviator's flight equipment for the program ensured 100 percent accuracy," commented Weideman.

Letters of commendation were presented to AZAN Brandi G. Kinard and AZ3 John D. Williams.



Jenquine



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GPS conference, trade show and training classes set next week

By Dex Hansard and Dave Greskowiak
Co-chairmen

Global Positioning System (GPS) will be showcased at the second NAWCWPNs GPS Conference here April 22 to 26 with a trade show, training classes and presentations. This year's conference theme is "Expanding the Horizon."

In conjunction with the conference, introductory and intermediate level GPS classes at the Training Center and vendor exhibits at the NAWS Wreck Center have been sponsored. Presentations will take place at Michelson Laboratory, Room 1000D, the Management Center and Conference Room B/C starting Wednesday, April 24 at 8 a.m.

The GPS satellite-based system can accurately provide a user with position, velocity and time worldwide. NAWCWPNs personnel are continuing to investigate how to best utilize, exploit and design GPS technology to meet our mission. Information discussed in association with the conference will continue to help us expand the NAWCWPNs GPS horizon.

Adm. Dana B. McKinney, commander, NAWCWPNs, will give the opening keynote address. Then there will be presentations by individuals from various China Lake and Point Mugu competen-

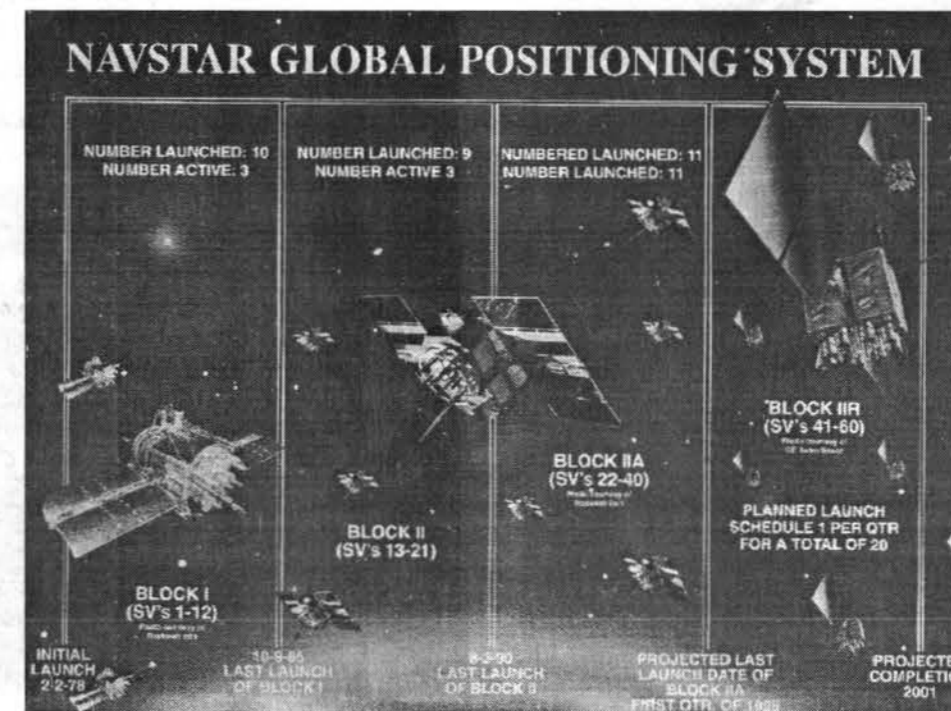
cies. These presentations showcase the work which NAWCWPNs personnel are conducting utilizing GPS. Additionally, some off-center organizations have been requested to make presentations to discuss important "hot topics" which will affect how we use GPS in the future. All sessions will be unclassified except Thursday afternoon which will be classified SECRET/WNINTEL/NOFORN. A complete list of the presentations and

presenters is shown in today's Announcement section. NAWCWPNs personnel attending this conference will be given training credit. If you have any questions, contact the Research and Development conference chairman Dave Greskowiak at (619) 927-3616, or the Test and Evaluation conference chairman Derwin "DEX" Hansard at (619) 939-6930.

Individuals who require training in the GPS field will not be disappointed in the

conference. Starting Monday morning for two days, April 22-23, two classes will be held at the NAWCWPNs China Lake Training. One class has been designed to meet the needs of personnel who require an introduction to GPS. The other class has been designed for personnel who require a more in-depth look at how GPS functions from an integrator's perspective. Currently, both classes have been completely filled which helps show the growing importance of GPS in accomplishing our mission. If you have any questions about the classes contact Dorothy Wiederhold at (619) 939-2359.

In association with the conference is a GPS Trade Show located at the NAWS Wreck Center Wednesday through Friday, April 24-26, starting at noon the first two days, and at 8 a.m. April 26. The trade show will give vendors from across the country the opportunity to show their wares to DoD and military representatives attending the conference. Vendors will be available for discussion each day until the close of the conference. If you have any questions about the show contact Patti Horton at (619) 939-0951. Because Michelson Laboratory is a secure area, attendees must either have an "M" on their badge or a SAAP badge. If you do not have either badge, please have your sponsor call the Visitor Badge Office at 939-2182.



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Tech Library News 'n' Tools

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Come and celebrate International Special Librarians' Day today, April 18, during National Library Week.

The technological capacity, brought about by a combination of modern computer systems and modern telecommunications technology, has made scientific and technical information an international commodity.

"Special Librarians: Partners in Global Information Management" is the theme for this year's celebration — in recognition of the important role that information professionals such as the NAWCWPNS Technical Library staff play in daily gathering of data and information needed by the Center's scientific community.

Please take advantage of this special day to observe demonstrations of video conferencing via Internet, CD-ROMS network, and scientific and technical web sites accessible through the Technical Library's Home Page.

You may pick up information packages listing CD-ROM holdings and Internet addresses.

Demonstrations are being held today

Demonstrations today until noon

from 8 a.m. to noon as follows:	
8 a.m.	CD-ROMS, Scanning
10 a.m.	Internet
8:30 a.m.	CD-ROMS
10:30 a.m.	Choices
9 a.m.	Internet
11 a.m.0	Internet
9:30 a.m.	Internet
11:30 a.m.	Internet

The combination of super computing, modern telecommunications technology, advanced scientific discoveries and world-wide economic developments has transformed information into an international commodity. Worldwide information networks, such as the Internet, connect millions of users in hundreds of countries, and data can be transmitted at rates exceeding the equivalent of 50,000 books per minute. In fact, President Bill Clinton has called information "King of the Global Economy."

Using the latest advancements in information technology, such as digital video, image scanning, CD-ROM (compact disks that store vast amounts of information instead of music), and the World Wide Web the Technical Library's special librarians collect, monitor, orga-

nize, analyze, evaluate, package and disseminate information. They transform raw data into complete information packages and put it to work for the Weapons Division. It is now possible for the librarian to hold a mini-conference with a customer using digital video cameras. This technology replaces the telephone and allows the librarian to discuss a customer's information requirements face-to-face via the computer

To be competitive in the research community the Technical Library is making advances toward achieving a "virtual library" at China Lake by providing desktop access to many remote services. For instance, Colorado Association of Research Libraries (CARL), offers an electronic listing of the table of contents of over 17,000 periodicals.

A variety of networked CD-ROM databases covering topics such as fighting ships and planes, aerospace, chemistry, and computer and electrical engineering data offers flexible data searching and retrieval. The online Early Bird service, a collection of daily selected, current news articles that deal with DoD, can be downloaded from the file-server. Remote access to the online catalog is also available so employees can search the libraries collection of books and reports without leaving their office.

A scientist or engineer working more traditionally in the Technical Library can excerpt data from the books and journals

and using computers available for patrons can combine it with information downloaded from various online sources and send the data back to his office via electronic mail.

Global accessing of information is extremely challenging. Barriers include differences in language, computer software and hardware, and telecommunication systems — not to mention the distinctly different information infrastructures that exist from country to country. Thus, special librarians are increasingly important in today's "information age."

The libraries new Online Room is a quiet room conducive to computer searching and study. The four workstations allow you to search for scientific and technical information via the Internet, Early Bird and CD-ROMS. We're also pleased with the addition of *Chemical Abstracts* to our CD-ROM list.

Please come and celebrate with us. Refreshments will be served. The library is open Monday to Thursday, 7:30 a.m. to 4:30 p.m. Our telephone number is 939-3380/89.

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The mechanical improvements combine with recent interior changes to the Passport, including a completely redesigned instrument panel and the addition of driver and front passenger airbags (SRS). The stereo system was upgraded to a six speaker repositioned to provide more usable storage space and improved sound quality.

The new Passport is available in DX, LX and EX trim levels. Two-wheel-drive is standard on all Passports, and a shift-on-the-fly four-wheel-drive system is now available on LX and EX models. This system allows the driver to engage and disengage the four-wheel-drive systems while the vehicle is in motion, making it easier to drive the Passport on all road surfaces and weather conditions.

Prices for the '96 Passport start at \$15,995* for the DX model. Standard features on the LX two-wheel-drive model include power windows and door locks, cruise control AM/FM stereo cassette, and adjustable steering column. Also standard on the LX is a 60/40 split fold-down rear seatback. Four-wheel-drive LX models include air conditioning.

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Safety Sense

By Dena Christison
Safety Specialist

Supervisors: You play a vital role in safety

Each year millions of workers suffer work-site injuries that are largely preventable. As a supervisor, you play a key role in preventing accidents and keeping employees off the mishap roles.

Even though you are committed to the safety of your employees, at times you may feel there is only so much you can do to protect them from on-the-job risks. But, keep in mind, there is always something more that can be done to improve safety. Even if a safe environment, equipment, facility and so on, is provided, sometimes employee habits, attitudes or behaviors might be putting your workers in danger. In fact, most mishaps do not result from unsafe conditions but from unsafe acts. It is the supervisor's responsibility to examine not only the physical workplace, but the safety climate in the work group and keep employees on the safe track.

Directing employees to use safe work practices is not always easy, but it pays off in the long run. When out in work areas, spend some time observing the work behaviors of your employees. Broaden your view to more than just

quality and efficiency, but also safety. As you observe your workers, recognize when people use safe behaviors, have a safe attitude and take responsibility for their actions.

Safe behavior means performing work as taught or directed and reacting properly to a situation. Discuss with workers how their reactions to situations affect personal and group safety. Show what happens when procedures aren't followed, "short-cuts" are taken, personal protective equipment isn't used or questions aren't asked. Try to keep employees alert and focused on their tasks. They need to be serious about safety practices, never "horsing around" on the job. Help them avoid letting anger or frustration get in the way of job performance.

Taking responsibility means being accountable for ones actions. Safe workers keep machines in good repair, clean up or report spills and debris, keep walkways free from obstacles, store chemicals properly, an so forth. You may discover that they even take pride in their neat and organized work site.

Sometimes the workers themselves are a supervisor's best resource for information about the safety climate in the workplace. Pay attention to workers' suggestions. Encourage them to identify problems and report hazardous conditions and behaviors. When workers are involved in the safety process, they'll feel more responsible for their own safety and the safety of their co-workers. You'll be more at ease knowing they are putting safety into practice.

You are training your employees from the first day they are on the job that you regularly expect safe work practices. Make sure that you, as a supervisor, also stay trained and current about safety issues at China Lake. Annual refresher training is required by OPNAVINST 5100.23D, and can be accomplished via a correspondence course written by the Safety Office. Supervisors can review this package and document its review back to the Safety Office to receive one-hour of safety training. The correspondence courses that have been published thus far are available electronically on the CL Admin Server in a folder called "Supervisors Safety Training."

Remember, the safety of your workers is a direct reflection of your commitment to your supervisory role. Supervisors are the key to accident prevention in the workplace.

Intelligram

Listed below are documents recently received in the Intelligence Library. Our documents are filed according to the KWOC (Key Word Out of Context) number.

404775 — "KONKURS (AT-5/SPANDREL) Antitank Guided Missile System" (DIA). This report is presented in a summarized format. The characteristics and similarities to other antitank guided missiles are discussed.

721661 — "Technologies for Naval Support of Land Combat: Status Report" (CNA). This is a briefing presented by Dr. Harvey M. Spivack to the Associate Director, Expeditionary Warfare Division.

404766 — "Ground-Based Air Defense Laser Weapon Systems: Worldwide" (DIA). In this study the author provides a brief overview of worldwide, ground-based, air defense laser weapon system development. The two categories of laser weapons, structural kill devices and sensor kill devices, are presented.

403826 — "Ground-Based Air Defense Missile Systems Handbook — Worldwide" (DIA). This is a recent update of a very popular handbook. It combines two previous handbooks:

Continued on next page

MONITOR from Page 1

calibration and sample introduction. The Environmental Protection Agency Office of Solid Waste favorably reviewed Seltzer's his project and encouraged him to further develop his approach. To help him in that effort, he obtained a multi-year funding commitment from the U.S. Army Armaments Research, Development and Engineering Center, Picatinny Arsenal, N.J.

To address the needs of the Army and the projected requirements of the EPA, Seltzer designed a second system capable of very sensitive, real-time detection of a wide range of metals considered to be hazardous air pollutants. Under a competitively bid acquisition, he obtained a state-of-the-art Trace 61E ICP from Thermo Jarrell Ash. When TJA learned of Seltzer's intended use of their instrument, they expressed an interest in a cooperative effort, which in turn led to the signing of the CRADA.

Nuts and bolts of the agreement
Under the terms of the three-year agreement, each partner will fund its own efforts, and all work will be conducted at China Lake under the supervision of Seltzer, the principal investigator. NAWCWPNS will also provide additional analytical, laboratory support, machine shop support and additional electro-mechanical design and fabrication support.

TJA, with its intimate familiarity with the Trace 61E instrument, will provide assistance in making necessary modifications and the engineering guidance necessary to achieve optimum performance for the continuous monitoring of airborne metals. They will actively consult on all technical issues. A sister company, Thermo Environmental Systems,

will assist the development of an interface between the monitor and the source of emissions.

Through their cooperative effort, the partners hope to build upon the earlier China Lake success. They believe, by incorporating some of TJA's advanced instrument design features and taking advantage of their expertise, a continuous real-time emissions monitor for hazardous air pollutant metals with incomparable analytical performance can be realized.

They will validate the system's performance through extensive field testing. The culmination of the effort will include endorsement and possible certification by the U.S. Environmental Protection Agency and commercialization of this technology.

Upon successful completion of the project, TJA will obtain commercial rights in a valuable new instrument to market, while the government will have the availability of an instrument with which to verify compliance with environmental regulations.

EPA "shootout"
The China Lake/TJA device is not the only one competing for a market share of the business of monitoring hazardous air pollutant metals. Seltzer and representatives of TJA are currently in North Carolina with their prototype system for a Department of Energy/EPA Metals Continuous Emissions Monitor Test Program. Their system will compete head to head with other prototype systems designed for the same task.

"This is coming a little soon," Seltzer said. "We'd planned to do validation testing at the end of the summer, but we think we have the best technology and we're confident we'll do well in this high-visibility shootout."

Why Technology Transfer? CRADAs spell savings

Most technical organizations are experiencing what seems to be a continuing and deleterious down sizing of budgets and personnel. It has become extremely difficult for any single entity to maintain what used to be proudly called a "full spectrum" technical capability. Difficult choices are being made daily as to which capabilities to keep and which to discontinue. In selected areas, one way to alleviate the dwindling-resources situation is to use a cooperative agreement with another federal laboratory, DoD contractor, private company, state, county or city government, under the auspices of DoD Technology Transfer Program.

Cooperative research and development agreements (CRADAs) saved NAWCWPNS over \$1 million in cost avoidance in FY94 and again in FY95. In FY94 we received \$120,000 in direct funding and in FY95 we received \$86,000.

CRADAs are legal agreements between a federal laboratory and one or more of the entities listed above to jointly conduct research and development in a selected technical area. It takes at least two entities who want to share and leverage each other's work and resources. The topic areas run from basic research to test and evaluation, but should have some element of research and development.

Each partner can provide facilities, equipment and personnel to support the effort. Each can leverage the other or others to best advantage. If need be, a non-government partner can also provide funding to a government partner.

So, if you have a willing potential partner who is working in your technical area and you would like to reduce the cost of your own development by working jointly, it can be done with a CRADA.

For help in identifying potential partners, including use of the DTIC Contractor Independent Research and Development (IRAD) report data base, contact the China Lake Technology Transfer Office at 939-1074. If you already have a partner in mind, the office will help you negotiate and implement your CRADA.

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Office Managers' Day April 23 Corporate Support Board: a new name for an evolving organization

By Ann Wagner
Command Executive Associate

The Corporate Secretaries Board was originally established in 1985. It evolved from a Directorate Secretarial Correspondence Advisory Committee that met on a regular basis with the commander's secretary. The members recognized the value of their meeting and after much brainstorming, the Corporate Secretaries Board was established. With all the changes we have been going through in the past five years, i.e., consolidation, establishment of NAWCWPNs, the inception of the Competency Aligned Organizational structure, and the changing role of today's secretary/office manager, the Corporate Secretaries Board needed to be revamped and as a result a new charter was written and the Corporate Support Board (CSB) was born.

The CSB has two chapters, one at Point Mugu and one at China Lake. Its primary mission is to promote and maintain a high degree of professionalism and quality office support to the Weapons Division.

This is an impressive sounding statement which simply means the CSB keeps all office managers apprised of up-to-

date information, monitors correspondence and promotes the use of a well developed network. Enough cannot be said about the importance of communication and networking.

In a time of constant change — downsizing, cuts in budgets and the reduction in force — office managers have learned to be their own support organization. Knowing that "everyone is in the same boat" and constantly encouraging each other is a real morale booster. This team effort is spreading across the entire Weapons Division.

A little about the makeup of the organization — the commander's executive associate is the chairman of the CSB and as co-chairs, the executive associates for the Director of Research and Engineering Competency China Lake, and the executive associate for the Director of Test and Evaluation Competency Point Mugu.

The vice-chairman, recording secretary and treasurer are elected at each location for a six-month period. Membership is made up of office managers at the 1 and 2 levels in a competency and those who work in the larger level 3

areas. Meetings are held once a month, unless there is an urgent matter that needs to be addressed. At these meetings, office managers share problems and solutions and learn to use available resources. It is a working group of team players.

Members of CSB, and office managers at all levels, are currently working

In a time of constant change office managers have learned to be their own support organization

on an Office Managers' Handbook. The handbook will include information and samples in the areas of person-

nel, all types of travel, security, time keeping, acronyms, military rank and insignia, visit requests and a section on correspondence. It is hoped this will be a useful and valuable tool for all of NAWCWPNs office support staff.

In 1992 the CSB decided to undertake a scholarship program to be financed by fund raising activities sponsored by CSB members. Over the years a number of \$100 scholarships have been given to Mesquite High School, and last year two were given to Cerro Coso Community College.

Why Mesquite and Cerro Coso?

Because they foster technical/professional programs and encourage potential office managers. How many scholarships? That depends on how many cupcakes, brownies, cookies, pies and cakes the good folks at NAWCWPNs buy at our bake sales — and they have been most generous. This year we hope to give at least five scholarships.

Now to the real purpose of this article — Secretaries' (Office Managers') Day. Each year, CSB acknowledges office managers at NAWCWPNs. This year there will be a buffet luncheon on April 23, at the Wreck Center from 11:15 a.m. until 12:45. The cost is \$5.25 and there will be many great door prizes, as well as a surprise for each attendee. We ask all managers to encourage their office managers to attend.

The theme for this year's speakers is how to cope with all the changes going on in our world today. On April 23 Kathy Kachur, from Careertrack, will talk about "Stress Solutions for Women" (and gentlemen) at the Wreck Center from 8 to 11 a.m. and 1 to 4 p.m.

Counselors from the Family Service Center will talk about "Work Stress, Do I Have It?" at the NAWS Conference Center from 10 to 11 a.m. and from 2 to 3 p.m. No pre-registration is required.

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Continued from Page 8

"Eurasian Communist Countries" and "Other Than Eurasian Communist Countries." The information is presented in handbook format to provide a single-source quick reference.

501426 — "SS-N-22 Antiship Cruise Missile" (ONI). The Office of Naval Intelligence produced this document to present a detailed description of the SS-N-22. There are also several

other documents in the library on this missile system.

800120 — "Land Threat Environment Projections Vol. 1: Threat to U.S. Ground Maneuver Forces" (NGIC). The Land Threat Environment Projection (LTEP) series of publications are intelligence reference documents which provide a baseline threat for U.S. ground weapons system acquisition.

We have resumed our Brown Bag Briefings. The next one will be on April 24 at 11:40 a.m. in the Intelligence Library. These briefings consist of ONI videos and are about 35 minutes in length. A partial list of the topics are: Rafale Update; C802 Acquisition; Sanctions on Yugoslavia and Iraq. For further information please call 939-1503.

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Askantias leaving a legacy of performance and endurance

Continued from Page 1

Silberberg was there at the end, just as he had been in the beginning. As a young engineering student at Purdue in 1945, Silberberg heard from a relative that somewhere out in the desert, people were needed. Lots of people. People who were willing to do just about anything. So he signed on as a general helper for 76 cents an hour — just for the summer mind you, just until classes resumed in the fall. Silberberg arrived in May 1945, a few months after the Askantias arrived. And both Silberberg and the Askantias stayed for more than 50 years.

About the money, Silberberg says, "Heck, I didn't care. I was working with some of the most brilliant people in the world, the cream of the crop, like Dr. R. S. Bowen, the famous astronomer from Cal Tech. Boy, it was like working with Einstein!"

Working a 12-day-on, 2-day-off cycle and knowing "a little something about cameras," Silberberg was recruited to help with the original ten KTH-41 Askantias. This was after spelling the couple who ran the photo lab so they could take a vacation — their first in three years.

"The only problem," Silberberg recalls, "was that the instructions were in German and none of us knew German." But they figured it out.

Never mind that these early Askantias looked like "baby dumpsters" and had to be manually carted from site to site and mounted on hand-held tripods to operate. They represented a big step for the U.S. military. Ten times more accurate than their predecessor, the Mitchell Cinetheodolites, these same Askantias have generated the highest quality time space position information (TSPI) range data available at China Lake's Baker, Charley and Coso ranges for over five decades.

Later on, Silberberg says, the United States decided they needed to build their own tracking mounts. The result was the Mark 5 series, an improved version of the earlier Askania Cinetheodolite, which was able to take a direction cosign based on a ray in the sky and determine the position of a missile at an altitude of 12,000 feet to an accuracy of five feet. And because time is one of the critical factors in gathering TSPI, Silberberg and other China Lake engineers made sure these Askantias operated on the same clock by patenting a venetian-blind shutter to fully expose the dial of the each camera so they were all reading and recording the data points simultaneously.

As missiles became increasingly sophisticated, it became apparent to all involved that some form of digitized data collection was needed, Silberberg reminisces: "Data was costing about \$5 a data point, and taking about six weeks to read and reduce. The customers wanted the information sooner."

So in 1968, Silberberg went to Germany to see if the Germans were interested in building a digitized version of the Askania. They weren't, but the United States was, and in the late 1970's, technology similar to that used in television was adapted to the Askantias, and video imaging replaced the film in the cameras. Once again, Silberberg and another China Laker, Pat Keller,

improved upon the original by patenting a shuttered video stop motion to "get a decent picture."

Silberberg, McArtor, Hammer and Hire and hundreds more like them have witnessed the birth, the long and fruitful career and finally, the retirement of the Askantias. And they were all on hand on March 4 to convey their accolades to their former co-workers.

"The only problem, was that the instructions were in German and none of us knew German."

—George Silberberg

Kenny Hire: "My only claim to Askania fame," he says, "is dropping one and causing \$5,000 in damage!"

Al Hammer: His real job when he arrived at China Lake in 1952 as a mathematician was

in data reduction. "My main job was to get answers, but back in those days, we had to learn our job from the ground up and that meant reading the film, but I was never really proficient at it!" Hammer explains.

Marie McArtor: It was only years later, after she'd gone on to another job, that she learned she'd been hired by her then boss Bob Herman to fill a field billet created specifically as an administrative challenge for his four male supervisors. "Bob hired me with one purpose in mind: to see how four men would handle a woman in the field. There was no EEO back then," McArtor laughs.

Built in the 1940s and 1950s, Askantias were widely used during World War II and have enjoyed a long and useful life in the military as single-function trajectory-tracking tools. But advances in sensor and signal-processing technologies that allow quicker response times and on-the-spot computational interfaces have rendered these old workhorses, with their slow data-collection rates, obsolete. According to Clint Seal, head of IOB's Photovideo Branch, "It's time to begin the process of retiring the Askantias".

In 1990, an improvement and modernization (I&M) program was initiated to replace the Askantias on NAW-CWPNS Land and Sea Ranges. The 14 retired on March 4 are the first increment to be retired; most likely, all 72 units will eventually be retired. That I&M program, managed by Tom Miller, will provide a combined 23 mobile Kineto Tracking Mounts or KTM's (15 for China Lake and eight for Point Mugu) and meet both sites' long-term optical TSPI needs.

Each self-contained mobile KTM unit features a much faster data collection rate than its Askania predecessor — 60 hertz versus 5 hertz — and a faster frame reading rate — 1,000 frames per hour versus the old rate of 100 frames per hour — providing higher quality images with more information than previously possible with the Askantias.

During a test, four KTM's are used simultaneously to gather trajectory data by measuring a target's azimuth and elevation over time. From these data, a three-dimensional plot of the object's trajectory can be determined. Once the data are captured by a networked computer resident on the KTM and encoded on a video tape, they are reduced and analyzed by China Lake's Data Services Branch. The result is high-precision position data with an accuracy of 0.006 degrees, or one foot per 10,000-foot tracking range.

Four or more seekers can be mounted and boresighted onto one KTM to provide flexibility for range customers. (The Askania could accommodate only one film sensor.) The KTM's current sensor array includes visible and infrared imaging sensors to produce both color and IR video as well as high-speed 16- and 35-mm footage. Planned sensor upgrades include high-resolution metric IR, laser tracker and range-only radar. The KTM can also be slaved to a Range Control Center-designated position, manually tracked by an operator or slaved to the seeker track errors.

China Lake's KTM system was recently awarded initial operational capability status by a land-range TSPI team as part of the team's certification process. The KTM is now the major range and test facility base (MRTFB) range standard for electro-optical instrumentation

Gone today are China Lake's Silberberg, McArtor, Hammer and Hire. Gone too are most of the men and women responsible for the evolution of the cinetheodolite tracking mount from the circa 1940, hand-held, Askania models, built at The Askania Works in Berlin to the sophisticated KTM, built by Contraves in the United States. And gone are China Lake's beloved Askantias and the early Askania operators, mechanics, and film readers.

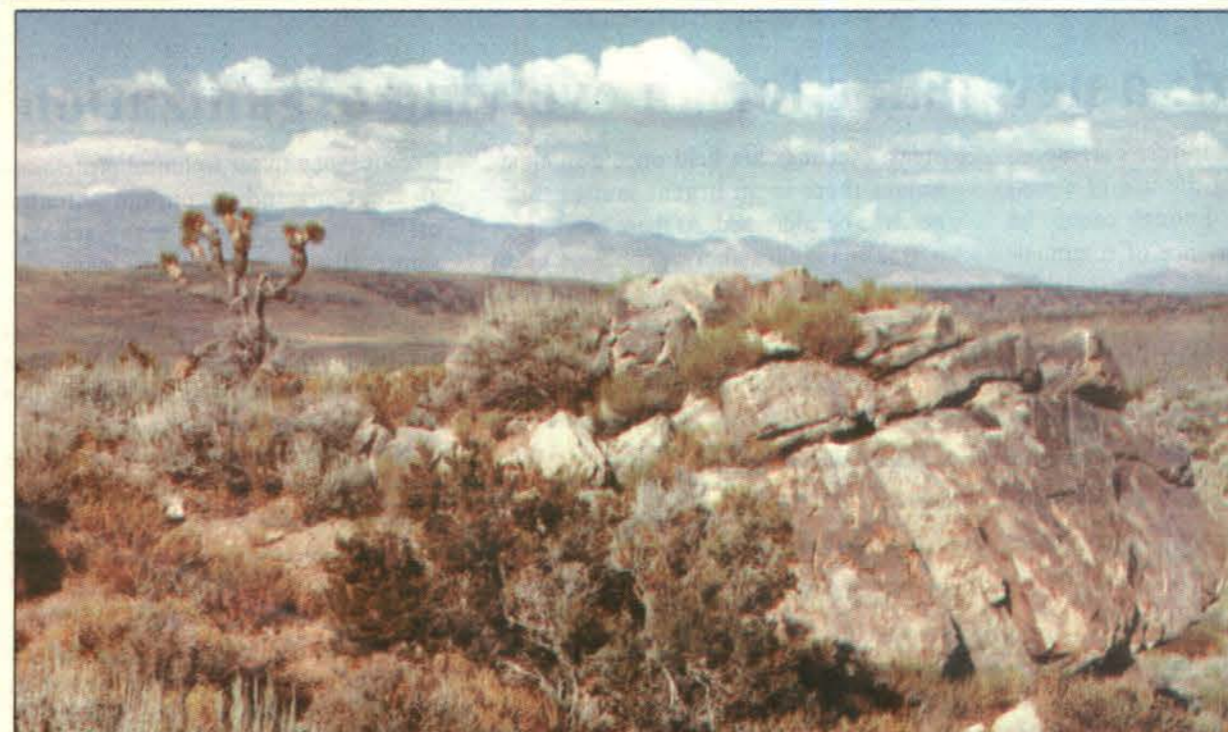
Gone. But, oh, what sights they've seen!



THANKS were offered by Clint Black, head of the IOB Photovideo Branch, to Marie McArtor, longest duration Askania operator; Kenny Hire, first technician (above right); Al Hammer, first film reader (below left) and George Silberberg, first operator.



And of course, there was Silberberg, whose job description as a general helper meant that on any given day he might find himself doing "just about anything." That was how Silberberg became the first Askania operator at China Lake. Silberberg does admit to having once had a partner, explaining that initially two men operated an Askania mount: one man tracking azimuth, the other elevation. "But we'd get so confused about who was tracking what that we'd blame each other when we lost the missile!" Operating an Askania soon became a one-man task.



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NAWS observance set for Saturday, April 20

Volunteers are needed to help clean up the common areas at NAWS on Saturday, April 20, in recognition of Earth Day. Others are needed to ride in vehicles picking up trash. Assignments will be given out at 7:30 a.m. at Solar Park. The cleanup is scheduled from 8 a.m. to noon. Bring your own work gloves. Trash bags will be provided.

The "spring cleaning" is just one way the Station is recognizing the importance of preserving the Earth's natural resources. The

NAWS China Lake Environmental Display will be on show at the Kerr-McGee Civic Center, and the NAWS China Lake Recycling Trailer will be on hand in the Kerr-McGee parking lot.

Other activities, sponsored by the City of Ridgecrest and Kern County, include a household hazardous waste drop-off, composting workshops, nature walks, music, art and environmental exhibits, a poster contest and more. These activities will be at, or in the general location of the Kerr-McGee Civic Center, at 9

Defense Commissary Agency searches out ways to improve our world

As Americans celebrate a single day of environmental awareness, the Defense Commissary Agency (DeCA) is working to make sure its facilities and people remember Earth Day all year — through the efforts of the DeCA Environmental Advisory Committee.

DeCA Chief of Staff Col. Ronald P. McCoy chairs the committee and takes a keen personal interest in its eventual success. "DeCA is committed to the spirit of Earth Day and to diminishing any negative effect our facilities and operations have on the environment," he says.

What happens when a common cleaning product is spilled in a commissary? Usually it's not a problem for anyone but the employee who's assigned to cleanup duty. But, determining which products might pose problems, and how to handle them, is part of the Advisory Committee's proposed outline for the DeCA Model Pollution Prevention Plan.

Committee members are working on policies for everything, from energy and water conservation to the purchase of recycled paper. Once all the pieces to the puzzle are in, an environmental consultant will survey the issues, draft the model plan, and develop training and awareness programs for DeCA employees.

Internal measures
 Ever think about the pollution dangers from leaking freezers and coolers? DeCA is. Since 1990, U.S. production of chlorofluorocarbons (CFCs), the most signifi-

cant ozone depleting chemicals, has decreased by over 50 percent. DeCA is taking part in efforts to phase out CFCs entirely.

Commissaries already participate in recycling programs on bases and the committee wants to increase recycling efforts. Recycling and energy/waste reduction accomplish a three-fold mission. They can save money, reduce pollution and even earn money. Cardboard baling at commissaries is a perfect example. The cardboard is collected, baled (or compacted) and sold to recyclers. Just as patron surcharges go back into the commissaries for construction and special needs, so goes the money from cardboard recycling.

Commissaries also try to offer patrons the option of buying products made from recycled material and products that can be recycled. DeCA also purchases recycled paper for office use whenever feasible.

Patrons may notice that the steaks they buy have less fat around the edges. There's a good reason for that too, says Mccoy. Distributors are required to deliver meat trimmed with no more than one fourth inch of fat. "It's less waste (fat) to be disposed of at the store level, and more nutritious for the patrons," says Mccoy. "We also encourage companies that work for us to use packaging that's recyclable and we try to give consideration to contractors who do." There's even a requirement in commissary contracts calling for environmentally safe cleaning products used by

employees.

Pesticides used in stores are all environmentally approved, and the use of pesticides in stores has decreased.

This group is encouraging a common-sense approach to saving energy and money. According to Shepherd, it has already been established that commissaries can save money and energy by shutting off lights and computers at night. "We can power a commissary for an entire year just by making sure that personal computers

are turned off after hours." New computers, printers and monitors purchased by DeCA are required to be "Energy Star" compliant: They "power down" when not being used.

What about the future?

By Earth Day 2005 commissary stores might be using water-source heat pumps, occupancy sensors that turn off lights automatically, and "day-lighting" skylights that provide light (without the heat that drives

Mountain hiking offers cleanup opportunities

I sympathize with those who lost access to B Mountain when the recreational passes were canceled. B Mountain is unique and special: it will remain so. The high ridge behind White Star Mine is 550 feet high at the near end, 650 feet at the far end. To get the equivalent of B Mountain, climb it twice.

Since my hiking partner and I took that first trip up White Star Ridge, I have removed a trail of broken glass going from the dirt road to an old, established trail that begins a short way up the hillside; marked the route from road to trail with ducks (an obviously artificial stack of rocks); pruned greasewood branches that overhung the trail; and removed 10 bags of tin cans, the worst of the broken glass, two tires, bumper, shock absorber, iron, etc., from the canyon, restoring it to its original clean beauty.

Drive to White Star Mine, turn around in their driveway, and come back toward town. Stop at the first dirt road on the right. Take the dirt road past the first hill, across the mouth of the canyon, and look for a two-rock 'duck' marking the route to the start of the old trail.

The trail is well defined to the top of the first section, much fainter for sections two and three. We like to drop into the head of the pretty little canyon on the northwest, and hike down to its mouth, where we find our 'duck' and do it again. There are many possible routes — drop down on the far side, hike to the 650 ft end, and climb back over. It makes a fine ramble. If you hike the ridge, please help keep it clean — don't trash it yourself. Be a saint and de-trash what I missed, or any new stuff.

— Dinah Beres

"best in class" partner you can learn from; strategies for ensuring a positive response from potential benchmarking partners; pros and cons of various information-gathering methods; visualizing the quality gap and the forces that are keeping you from reaching your quality goals; and benchmarking hazards to avoid.

To enroll or ask questions, call Lori Ryser at 939-2686 (DSN 437-2686).

STATEMENT OF WORK (8 hrs.)

12 June; Wednesday, 0800-1600; Location TBD, Point Mugu.

20 June; Thursday, 0800-1600; Training Center, China Lake.

By: Mona Bonbright

The Statement of Work (SOW) is written using clear and concise language. Preparation of an effective SOW requires both an understanding of the requirement and an ability to define what is required in specific quantitative terms. The course will provide information, samples, exercises, and helpful hints for preparing a SOW.

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).

To enroll at China Lake, contact Pat Nogle via QuickMail or at 939-3159.

KALMAN FILTERING (40 hrs.)

17-21 June; Monday-Friday, 0800-1600; Training Center, China Lake. By: Evolving Technology Institute

The principal objective of this course is to provide engineers and other technologists with an introductory course in modern estimation and filtering techniques. As an introduction to the subject, examples of real-world estimation problems are discussed. Some of these problems will be solved by classical estimation techniques to point out the limitations and often insurmountable computational burdens that result. The same problems will then be solved by a simple recursive technique to demonstrate the essence of the Kalman filtering approach. After an intuitive grasp of the recursive approach has been obtained, the mathematical background for linear least-mean-square estimation will be developed. In recursive estimation, the central topics are state-representation of system dynamics, measurement models, and the definition of the estimation error to be minimized. Once these are understood, a formal statement of the estimation problem follows naturally. The solution will be presented in the intuitively appealing predictor-corrector form of the Kalman estimator equation. Successful application of Kalman techniques often requires experience and good judgment in constructing appropriate mathematical models. Typical consideration will be illustrated by working with several examples such as ballistic missile tracking, estimation of orbital parameters, and the prediction of location velocity of submarine targets. Following the introductory material, applications and extensions of the Kalman filter will be presented and discussed. Central to the basic properties of the Kalman filter are the properties of the covariance equation—a matrix-Racati equation. The properties of this equation, such as controllability, observability, and stability are discussed in detail. As a logical extension of Kalman filtering, smoothing is presented, and the important smoothing algorithms are developed. Lastly, the extended Kalman filter problem is described and illustrated by using a simple satellite attitude estimation problem as an example of the application of the extended Kalman filter process.

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).

19 June; Wednesday, 0800-1700; Conference Room B/C, Mich Lab, China Lake. By: Dr. Daniel C. Harris

This 1-day course presents an overview of the optical, thermal, and mechanical characteristics of infrared-transmitting window and dome materials, with a special section on chemical-vapor-deposited diamond technology. Other topics include thermal shock response, rain and particle erosion, protective coatings, antireflection coatings, and electromagnetic shielding. Single-crystal growth, ceramic hot pressing, chemical vapor deposition, optical finishing, and the latest advances in dome and window design and testing will be discussed. The course is directed at engineers, scientists, and managers who need an introduction to properties, performance, and manufacture of windows and domes. The textbook, "Infrared Window and Dome Materials" by Daniel C. Harris (SPIE Press, 1992), is included with the course materials.

Deadline: 5 June.
To enroll, QuickMail or call Dorothy Wiederhold at 939-2359 with your name, code, social security number, and phone number, and

EMPLOYEE ASSISTANCE RESOURCES

Worried about your job future? Do you want to take charge of your career in these uncertain times? Many resources are currently available to employees at China Lake and Point Mugu. Check the chart below and call the number listed for more information and assistance.

What Are You Looking For?	Where Can You Find It?	Who Do You Call?
Career Counseling	NAWCWPNS Employee Development Division	939-2359 (CL); 989-3984 (PM)
	Community Colleges Career Centers	
Job Information	Career Transition and Resource Centers (CTRCS)	939-2359 (CL); 989-3982 (PM)
	Job Bulletin Boards, Government and Private	Transition Assistance Management Program (TAMP)
Industry Jobs	Employment Development Department (EDD), State of California	446-2593 (CL); 382-8610 (PM)
	Career Transition and Resource Centers (CTRCS)	939-2359 (CL); 989-3982 (PM)
Job Search Techniques	Networking Applications: SF-171/OF-612	Transition Assistance Management Program (TAMP)
	Resumes Interviewing Skills	Employment Development Department (EDD), State of California
Job Market Information	Defense Outplacement Referral System (DORS)	DORS Program Manager
	Personnel Management Advisors and Assistants	939-2265 (CL)
Retirement Counseling Benefits	Employee Relations Retirement Experts	939-2574 (CL); 989-3323 (PM)
	NAWCWPNS Employee Development Division (Training)	939-2359 (CL); 989-3982 (PM)
Financial Counseling	Civilian Employee Assistance Programs (CEAP)	939-2574 (CL); 989-7708 (PM)
	NAWCWPNS Employee Development Division	939-2359 (CL); 989-3982 (PM)
Stress and Personal Counseling	Job Training Policy Council (JTPC)	446-2593 (CL); 981-8764 (PM)

INFRARED WINDOWS AND DOME MATERIALS (8 hrs.)

19 June; Wednesday, 0800-1700; Conference Room B/C, Mich Lab, China Lake. By: Dr. Daniel C. Harris

This 1-day course presents an overview of the optical, thermal, and mechanical characteristics of infrared-transmitting window and dome materials, with a special section on chemical-vapor-deposited diamond technology. Other topics include thermal shock response, rain and particle erosion, protective coatings, antireflection coatings, and electromagnetic shielding. Single-crystal growth, ceramic hot pressing, chemical vapor deposition, optical finishing, and the latest advances in dome and window design and testing will be discussed. The course is directed at engineers, scientists, and managers who need an introduction to properties, performance, and manufacture of windows and domes. The textbook, "Infrared Window and Dome Materials" by Daniel C. Harris (SPIE Press, 1992), is included with the course materials.

Deadline: 5 June.
To enroll, QuickMail or call Dorothy Wiederhold at 939-2359 with your name, code, social security number, and phone number, and

verify that you have your supervisor's approval to attend. If you contact Voice Mail, leave a complete message.

CREATIVE THINKING AND PROBLEM SOLVING (16 hrs.)

20-21 June; Thursday-Friday, 0800-1600; Location TBD, Point Mugu

This course will teach the current theories of how your brain "thinks" and your unique thinking style. Learn and practice several creative problem-solving exercises to stimulate your thinking process and develop usable skills in everyday working and living. This course will provide a balance of theory and practice that develops competency in right-brain thinking/left-brain analysis.

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).

NETWARE TCP/IP TRANSPORT (16 hrs.)

25-26 June, Tuesday-Wednesday, 0800-1600; 2901 Ventura Rd., Oxnard. By: Computer Focus, Jeffrey Wales, Ph.D.

Intended Audience: Netware TCP/IP users and ECNE and CNE candidates.

Prerequisites: Completion of courses N200 Networking Technologies and N508 Netware 3.1x Administration or N520 Netware Administration or equivalent experience.

This course covers the features and benefits of Novell's Netware TCP/IP software. Participants will install and configure Novell's Netware TCP/IP software on a Netware 3.1x server and learn how to diagnose and troubleshoot common problems that may occur in a TCP/IP environment. Topics include an introduction; TCP/IP—an overview on TCP/IP, addressing, routing, tunneling, SNMP, application programming interfaces, and NFS. The installation and configuration will cover requirements, IEEE 802.3 versus Ethernet, verifying the installation, loading and unloading the TCP/IP NLM, and lab exercises. Other topics will include TCP/IP management, IP addresses, TCPCON, routing, tunneling, troubleshooting, monitoring the server, performance issues, and common problems.

To enroll at Point Mugu, submit an On-Board Training Request (NAWCWPNS 12410/2) to Mary Glasmann, Code 733000E. For further information, call 989-3982 (DSN 351-3982).

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 section 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).



NAVAL AIR WARFARE CENTER WEAPONS DIVISION

ANNOUNCEMENTS



ALL NAWCWPNS SITES GENERAL ANNOUNCEMENTS

JOB FAIR AT POINT MUGU

A Job Fair will be held at the Point Restaurant, Point Mugu, on 8 May from 1400 to 1930. Potential employers will make presentations on job positions available for prospective employees. For more information, contact the Point Mugu Family Service Center at (805) 989-8146.

MARKETING YOURSELF FOR A SECOND CAREER

The Point Mugu Family Service Center will present a lecture on "Marketing Yourself for a Second Career" on Monday, 29 April from 0830 to 1100 at the Bldg. 3015 Auditorium. The guest speaker will be Col. H. W. (Buzz) Buse, USMC (retired). The lecture will cover job search plans, tips for strengthening your resume, networking, preparing for and conducting a successful interview, and realities of the civilian job market.

For more information, call (805) 989-8146.

NEW POINT MUGU TRAINING CENTER OPENING

The Employee Development Division's, new Training Center, Bldg. 366 (old cafeteria), at the Point Mugu site will be operational on 6 May. A gala grand opening date will be announced in mid-May. The Career Transition and Resource Center will open in advance on 23 April in the same building.

LIFE CYCLE MANAGEMENT FIPR REPRESENTATIVE TRAINING

There will be two make-up sessions for the Life Cycle Management FIPR Representative training. The session at China Lake will be held on 23 April in the Coso Room of the Conference Center from 0830 to 1100. The session at Point Mugu will be held on 26 April in the Bldg. 7020 Conference Room from 0830 to 1100.

TSP RATES OF RETURN

The latest TSP rates of return were

	C Fund	F Fund	G Fund
March 1996	0.97%	(-0.68)%	0.54%
Last 12 months	32.00%	10.64%	6.60%

INTERFUND TRANSFERS: An interfund transfer changes the balances of your TSP account that are invested in the three TSP funds. An interfund transfer affects only money already in your account; it does not affect the way your future payroll contributions are invested. You can make interfund transfers monthly if you wish. Interfund transfers can be made by using the THRIFTLINE, telephone (504) 255-8777. For more information on using the THRIFTLINE, at China Lake call John Powers, 939-2574, and at Point Mugu call Peggy Topham, 989-3323. Ask for a copy of the FACT SHEET - Using The ThriftLine.

NAWCWPNS MINI-INFRARED INFORMATION SYMPOSIUM (MINI-IRIS)

The Electro-Optical Science and Technology Network is pleased to announce that it will be hosting the 1996 MINI-IRIS Symposium at NAWCWPNS China Lake from 29 April to 1 May. This symposium will be held in room 1000D and the Management Center of Mich Lab. This year the key note speakers (Matt Anderson and Paul Homer) will give their perspective on the future direction of NAWCWPNS—where we are going from here. We are also pleased to have naval aviators speaking on their experiences using Electro-Optical systems available to them—are they adequate or do we really need to improve our present capabilities? These, along with many technical presentations dealing with Status of Ongoing Programs, Future Requirements, Sensors, Signal Processing, and System Modeling and Simulation will be

GLOBAL POSITIONING SYSTEM CONFERENCE

NAWCWPNS China Lake is hosting a Global Positioning System (GPS) Conference at Mich Lab on 24-26 April. The planned sessions and presenters are as follows:

24 April; Wednesday, 0800-1700

Morning Session—Overview and System Development (Unclassified)

• Opening Remarks—Dex Hansard and Dave Greskowiak (NAWCWPNS)

• Keynote Address—RADM. D. B. McKinney, Commander, NAWCWPNS

• GPS tutorial—Dex Hansard (NAWCWPNS)

• GPS System Description—Cdr. Bob Hartman (GPS JPO)

• GPS Crypto Issues—Capt. Mike Codington (NSA)

• Selective Availability/Antispoofing Module (SAASM) Overview—Maj. Scott Otey (GPS JPO)

• GPS Receiver Applications Module (GRAM)—Eddie Emile (GPS JPO)

• GPS Resources Available on the Internet—Mike Hugo (NAWCWPNS)

1200-1330—Lunch

Afternoon Session—Testing and Verification Applications (Unclassified)

• Navigation Laboratory—Kenea Marrafio (NAWCWPNS)

• GPS Range Applications Program—Cliff Lemieux (NAWCWPNS)

• Nellis Air Combat Training System (NACTS): Next Generation of GPS in the Training Arena—Frank Bellino (NAWCWPNS)

• Development of a Low-Cost GPS-Based Time-Space-Positioning Information (TSPI) System—Benge Scott (NAWCWPNS)

• Treat Use of GPS—Andrea Pelch (NAWCWPNS)

• Evidence of Differential Movement of the Earth's Crust in the Area of the Indian Wells Valley—Frank Monastero and Steven Bjornstad (NAWCWPNS)

25 April; Thursday, 0800-1700

Morning Session—Improved Accuracy and Positioning (Unclassified)

• GPS Accuracy Testing at NAWCWPNS—Dick Dickson (NAWCWPNS)

• GPS Multipath Evaluation Process for Reference Receiver Differential GPS Corrections Sites—Ronald Smith and Eric Senour (NAWCWPNS)

• Wide Area GPS Enhancement (WAGE) and Accuracy Improvement Initiation—Capt. Geoffrey Hills (Space Warfare Center, Falcon AFB)

• Precise Measurements Require Precise Time—John A. Kusters (Hewlett-Packard)

• GPS Data Processing at NAWCWPNS—Kenneth Burto nand Dennis Arndt (NAWCWPNS)

• GPS Testing and Frequency Management Issues—George "Turk" Turkiewicz (NAWCWPNS)

1200-1330—Lunch

Afternoon Session—Vulnerability and Jamming (Classified)

• Point Issues Facing GPS Navigation—Barry Tanju (SPAWAR)

• A Report of the Defense Science Board Task Force on GPS—Dr. Sean Gilmore (MIT Lincoln Labs)

• Navigation Warfare Employment of GPS on the 21st Century Battlefield—John Anderson (GPS JPO)

• Intelligence Report on GPS —Roger Ross (NAWCWPNS)

• Operational Denial of GPS—Dr. Michael Kopp (NSWC, Fallon, NV)

• Spread Spectrum and Its Inherent Resistance to Jamming—Michael Hogan (NAWCWPNS)

26 April; Friday, 0800

Morning Session—Technical Enhancement Applications (TEA) (Unclassified)

• Global Positioning System Jammers (GPSJ)—Ron Gotzler and —Jerry Smith (NAWCWPNS)

• Low-Cost Multiple Participant GPS—Gary Ribati and Stan Revell (NAWCWPNS)

• New Cooperative Automated Tracking System and Internal Target Instrumentation Package (ITIP)—Jose Hernandez (NAWCWPNS)

• Airborne Instrumentation System—James "Hank" McGlathlin (NAWCWPNS)

• Geographic Information System (GIS) in Natural Resources Management—Tom Keeney (NAWCWPNS)

• GPS Translator for Small Missiles: Universal GPS/INS Integration—Ricardo Navarro (NAWCWPNS)

presented at this year's meeting.

The primary goal of this symposium is to facilitate the exchange of information among NAWCWPNS technologists, and technology end users. In order to accomplish this goal all NAWCWPNS personnel are invited and encouraged to attend and participate in this symposium. The MINI-IRIS presentation schedule will be available on 22 April, both in hard-copy form and posted on QuickMail. To get a copy, contact Albert Ogloza at 939-3827.

FASTPAC 4.0 FOR WINDOWS
An updated version of FastPAC 4.0 for Windows is now available on the HRD Public Server. Follow these instructions to install the program on your local drive.

1. Type LOGIN PM62PUB_NFS/FASTPAC
2. Locate the R:\APPSETUP\DISK1 directory using Windows File Manager.

Double-click the file called SETUP.EXE

Follow instructions as they appear on-screen. Must be installed in C:\FASTPAC directory.
Installation of this update will not overwrite existing PACs. Installation updates FastPAC with the most recent duties, responsibilities, and specialty codes, and improves the user interface.
Direct questions concerning this program to John Allen at 989-3237 (DSN 351-3237).

CHINA LAKE GENERAL ANNOUNCEMENTS

BC/BS REPRESENTATIVE TO VISIT CHINA LAKE
A Blue Cross/Blue Shield (BC/BS) service representative will be at China Lake on Monday, 22 April. You can ask questions regarding your BC/BS coverage and receive help with any problems you may have at that time. Bring all relative documentation. You may stop by the Training Center between the hours of 0800 and 1100 and 1230 to 1430. To ask questions, contact Leora Fields at 939-2018.

INTELLIGENCE LIBRARY BRIEFINGS
The Intelligence Library has resumed Brown Bag Briefings, which are held on Wednesday of the non-pay week. The next briefing will be on 24 April at 1140 in the Intelligence Library. These videos consist of ONI briefings and are about 35 minutes long. Some of the topics include Rafale Update, C802 Acquisition, and Sanctions on Yugoslavia and Iraq.
Space is limited, and reservations are recommended. To add your name to the list, call 939-1503. You must meet the Intelligence Library clearance requirements.

INTERNET USERS GROUP FORMING
The NAWCWPNS Technical Library at China Lake is forming an Internet Users Group. Meetings will present an informal forum for sharing information about the Internet and its uses. The first meeting will be held at the Technical Library on Friday, 26 April at 1300. The Library is closed on Fridays so to attend, ring the doorbell at the front entrance. For additional information, contact Bob Bloudek via QuickMail or at 939-0926. This group is open to all interested persons.

CSUB COUNSELORS ARE COMING
Academic counselors of California State University, Bakersfield (CSUB) will be at China Lake on 8 May to advise current and prospective students on the external degree programs offered by the school at China Lake: a bachelor's degree program in business administration and a master's degree program in administration. To make an appointment with a counselor, call Sandra at (800) 788-2782, ext. 3396.

DFAS ACCOUNTING BRANCH TO CEASE OPERATIONS
The Defense Finance and Accounting Service (DFAS) Accounting Branch located in Bldg. 02483 is scheduled to cease operations on 15 May. DFAS-China Lake Accounting Branch workload will be transferred to DFAS-Point Mugu until 15 July.
For additional information, contact Diane Skrivanek, the current site manager, at 939-2141 or DSN 437-2141. After 15 May, contact Art Mann, Branch Chief, DFAS-Accounting Branch, Point Mugu at (805) 989-8551 (DSN 351-8551).

ETHNIC OBSERVANCE COMMITTEE SEEKS MEMBERS
The Ethnic Observance Committee is looking for serious military and civilians of all cultures to join its ranks. Meetings are held the second Thursday of each month at the Wreck Center. The Committee wants to become a strong force in the community as well as with the military public. For further information, contact Sgt. Martin Daugherty at the Marine Aviation Detachment at 939-6601 or 939-8098.

RETIREMENTS

BILL VECHIONE
Bill Vechione is retiring after 34 years of federal service. A retirement party will be held in his honor at Hitter's Banquet Hall on 2 May. The evening will begin with a no-host bar at 1800, followed by a buffet dinner for \$13 per person. To purchase tickets or make a gift donation or presentation, contact Antonette at 939-7252.

DALE KNUTSEN
Dale Knutsen is retiring after more than 30 years of service at China Lake. A retirement party will be held in his honor at the Carriage Inn on Thursday, 30 May. The evening will begin with a no-host bar at 1800. Dinner will be served at 1900, and presentations will begin at 2000. A Polynesian buffet dinner will be served for \$15.50 per person. For donations, presentations, reservations, or tickets, contact Pat Lloyd at 939-3500 or Lupe Vizcarra at 939-3608.

CHINA LAKE TOASTMASTERS COMMUNICATIONS AND LEADERSHIP PROGRAM
This 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 course is 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.

DEC SOFTWARE LICENSES
If you have a DEC software license that is not being used and would like to transfer it to the DEC license pool for rehosting on another NAWC/NAWS computer, would like to remove DEC software from a computer and transfer it to another local computer, or wish to acquire a software license from the pool, contact Linda McCauley, Code 721200D, at 939-0614.

Some of the licenses available for redesignation are as follows:

Current CPU Type	Software Product Name
3800/4000	All-In-One
11/780	Basic
11/780-5	C
11/750, 8650	Common Data Dictionary (CDD) & CDD Plus
11/750, 11/780	Cobol
11/780	Datatrieve
11/785	Data Base Mgmt Syst (DBMS)
11/780	Decalc
11/780	Forms Mgmt Syst (FMS), Module Mgmt Syst (MMS), Conf Mgmt Syst (CMS)
11/785/780/750	Fortran
11/780	Language Sensitive Editor (LSE)
11/780-5	Pascal
11/750	RSX
11/750	RTEM
11/780-5	Software Performance Monitor (SPM)
11/750/780	Terminal Data Mgmt Syst (TDMS)
8650	DVNETEND
11/780-5	DVNETRTG
11/780-5, 8650	DW-Motif
11/780-5	Notes
11/780-5, 8650	Session Support Utility (SSU)
11/780-5, 8650	VaxCluster

INTERMEDIATE SYSTEMS ACQUISITION COURSE (80 hrs.)
3-14 June; Monday-Friday, 0730-1600; Training Center, China Lake. By: Acquisition Management Institute (AMI)
Note 1: This course may be taken to fulfill the ACQ 201 DAWIA course for level II employees who are in career fields with this requirement or employees requiring this course for certification in a subsidiary career field. Employees taking this course to meet a DAWIA training requirement must also have acquisition experience, education, and/or additional training in order to use the fulfillment program for meeting the ACQ 201 requirement. ACQ 201 course competencies listed in the Fulfillment Guide should be referred to. (This guide is available in hard copy from department offices or via Internet address for DAU documents: http://www.acq.osd.mil/dau/daudocs.html).
Note 2: Due to the intensity of the course, outside reading will be required.

The Intermediate Systems Acquisition Course (ISAC) is an integrated course in systems acquisition management. This 2-week course provides a comprehensive overview of the DOD systems acquisition management and technical and business processes. The course goal is to immerse the students in each process, acquaint them with the specialized terminology, familiarize them with the roles of the primary acquisition players, and demonstrate how it all fits together. The course is structured around three major theme areas, each with a series of supporting topical coverage: Acquisition Management Policy and Integration, Technical Management, and Business Management.
Deadline: 6 May
To enroll, submit an On-Board Training Request (NAWCWPNS 12410/2) to Pat Oliver, Code 733000D.

GRAMMAR (hrs.)
4 June; Tuesday, 0800-1600, Training Center, China Lake. By: Casey Reynolds
For business and technical writers, grammar glitches just seem to come with the territory. This workshop can do wonders for uneasy writers who know they make occasional errors in grammar, punctuation, or usage—errors that detract from content and, in some cases, damage credibility. Classroom exercises focus on the common hazards in business and technical writing—correct use of tense, agreement between subject and verb, problems with possessives, run-on sentences, use of the serial comma, and a variety of other small but nagging problems that can be resolved with a little guided practice.
To enroll, contact Pat Nogle via QuickMail or at 939-3159.

IR/RF Technology (32 hrs.)
10-13 June; Monday-Thursday, 0800-1600, Location TBD, Point Mugu. By: Dr. Roulund Handy
This training will present a comparison of IR/RF technology sensors and systems. Students will develop an understanding of the fundamental aspects of the generation of radiation by IR and RF sources, the transfer of radiation by IR and RF systems, and the detection of IR/RF radiation. This course is designed to provide a clear and functional understanding between the basic detection methods used in IR/RF systems, along with the most recent advances in IR detectors and their system applications. The course will benefit attendees with diverse technical backgrounds. It begins with emphasis on the definition and units used in defining the basic laws of IR radiation. Using the radiant quantities and units defined above, various types of IR radiation sources and targets are characterized and discussed. Transmission, absorption and atmospheric effects on IR systems are presented. Basic principles of charge-coupled devices and their application to IR detection scanning systems will be discussed. The development of geometric optics begins with the ray theory, the foundation of optics used in IR systems, and proceeds to a discussion on Gaussian optics, in particular, a development of the laws of reflection and refraction. Modern applications of IR detector focal plane arrays for IR search and tracking, imaging systems, and seekers will be presented. Basic principles of thermal imaging systems and detectors such as bolometers, thermopiles, and pyroelectric will be discussed.

NAVAL AVIATION EXECUTIVE INSTITUTE (NAEI) FY96 SEMINARS

NAEI courses are designed for GM-13/Lieutenant Commanders (or equivalent) and above assigned to the Naval Air Systems Command. All Senior Executive Management Development Program (SEMDP) participants are required to attend certain classes. These participants have priority for available billets. Program costs are funded by NAEI. Travel and per-diem expenses of nominees are funded by their respective organizations. If the course is residential, lodging and meal costs are provided by NAEI. Nominations must be submitted on an NAEI form, which may be obtained from Lori Ryser, Program Coordinator, Code 733000D, China Lake, (619) 939-2686 (DSN 437-2686).
Note: A DD-1556 is NOT required. Nominations from all sites must be submitted to the Employee Development Division, China Lake, by the deadline dates listed below.

COURSE TITLE	COURSE DATES	DEADLINE DATE TO 733000D
Contemporary Management Issues and Practices	12-23 Aug	20 May
The Washington Arena	16-20 Sep	5 Jul
Managing Individual and Organizational Change	6-9 Aug	20 May
The Politics of National Security	26-31 Aug	7 Jun
NEW - Creating the High-Performance Workplace	26-30 Aug	7 Jun
NEW - Managing Critical Resources	5 days-TBD based on demand	

FAMILY SERVICE CENTER (FSC) CIVILIAN RIF SERVICES

The following services are available to civilian employees during the Reduction In Force (RIF) proceedings at Point Mugu and China Lake:

FSC COUNSELING SERVICES (CLINICAL)

- Two licensed mental health counselors are available for emergency response.
- FSC clinical staff is prepared to do 3-hour weekly group workshops (to accommodate up to 60 individuals per session). These workshops are primarily prevention programs designed to educate and reduce the stress, tension, and sense-of-loss due to the RIF.
- FSC will provide a monthly 2-hour stress management class to accommodate up to 50 individuals.

FSC CAREER COUNSELING

- FSC's Transition Assistance Management Program will provide classes on the following: Resume Preparation, Interviewing Skills, Job Search Techniques, and Skills Assessment.
- FSC job banks and computerized referral services will be made available to affected civilians.
- On a space-available basis, civilians can attend the 4-1/2 day Transition Assistance Program (TAP) for separating active duty members (4 days at China Lake).

FSC RELOCATION SERVICES

- Relocation assistance (RAP) will be provided as needed. The FSC RAP has housing, school, and medical information on all 50 states and overseas military locations.

FINANCIAL COUNSELING SERVICES

- Individual financial counseling (debt resolution, budget preparation, etc.) services are offered to civilians adversely impacted by the RIF. Appointments are necessary.

SERVICES ARE PROVIDED AT THE FOLLOWING LOCATIONS AND TIMES

CHINA LAKE:
610 Blandy, Bldg. 02308
Code 82J000D
Phone (619) 939-1555

POINT MUGU:
Trailer 10131, Chapel Complex
Code 83F000E
Phone (805) 989-8146

To enroll, submit an On-Board Training Request (NAWCWPNS 12410/2) to Mary Glasmann, Code 733000E. For further information, call 989-3982 (DSN 351-3982).

MATHEMATICA (24 hrs.)
10-12 June; 0800-1600; China Lake Training Center. By: Principia Consulting
Prerequisites: Familiarity with graphical user interfaces (i.e., Macintosh or Windows); some experience programming in a computer language such as C or Fortran.
Day 1: This workshop surveys all non-programming aspects of Mathematica, including its user interface, numerical and symbolic calculation, and graphics. After completing this workshop, you will be able to use Mathematica for interactive problem solving, and you will know where to look for additional information. Topics include system basics, numerical calculation, lists and strings, 2-D graphics, 3-D graphics, algebra, linear algebra, and calculus. Day 2: Mathematica has its own particular programming style that lends itself to the construction of elegant and efficient programs. In this workshop you will learn about

procedural, functional, and rule-based programming; writing packages, and data import and export. After completing this workshop, you will be able to create your own Mathematica functions and packages. Topics include Procedural programming, functional programming, rule-based programming, writing packages and input/output. Day 3: Topics will be chosen from the following list, depending on the interests of the participants. Approximately two main topics can be covered in a single day. Topics include data analysis, graphics, user interfaces, debugging, programming for performance, and Mathlink.
To enroll at China Lake, submit an On-Board Training Request (NAWCWPNS 12410/2) to Pat Oliver, Code 733000D. For further information, call 939-2468 (DSN 437-2468).

FACILITATION SKILLS (8 hrs.)
11 June; Tuesday, 0800-1600; Location TBD, Point Mugu. By: De LaPorte and Associates
This course is targeted toward those who facilitate a variety of groups within a workplace. Participants will learn to design productive

meetings, learning events, team meetings, and workshops. Participants will learn and practice skills to focus as group, utilize time efficiently, manage conflict, and ensure maximum participation.
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).

BENCHMARKING (16 hrs.)
12-13 June; Wednesday-Thursday, 0800-1600; Training Center, Room 114, China Lake. By: American Management Association
This is an introductory seminar to the benchmarking process. Topics covered include how to demonstrate why benchmarking should not be a one-time thing; using benchmarking to think "out of the box" and develop new ways of operating; strategies for focusing on which critical process to benchmark; product, performance, process—differences and similarities when considering what to benchmark; quality improvement tools to use in analyzing your own process; building internal support among management and employees for benchmarking; how to locate

specified; (10) government/industry teaming; (11) systems engineering's role in the RFP preparation; (12) system design/system architecture design, including functional analysis and requirements allocation; (13) interface definition and control; (14) defining and leading an integrated interdisciplinary team; (15) risk identification, assessment, and control; (16) establishment and implementation of a technical performance measurement system; (17) technical reviews; (18) systems engineering planning; and (19) acquisition reform and its impact on system engineering. This course is based on practical experience rather than textbook theories and uses examples from actual programs to illustrate the pros and cons of particular approaches. This class consists of a reading assignment that is to be completed prior to the beginning of the class, 40 hours of classroom instruction, videos, two workshop sessions, and four short evening assignments. (Note: It is desirable that the Navy Acquisition System Management course be completed prior to taking this course.)

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).

DIGITAL SIGNAL PROCESSING (40 hrs.)

20-24 May; Monday-Thursday, 0800-1600, CESOS, Bldg. 1444, Room 290, Port Hueneme. By: Quintech Corporation (Byron Edde)

Prerequisites: Individuals taking this course should have a working knowledge of calculus and transform methods. Participants should have a sufficient mathematics background to understand the materials presented.

This 40-house course presents signal processing and the design and integration of signal processing techniques into systems. It is intended for engineers, scientists, mathematicians, and other technical personnel who need information on how signal processes work and how they are applied in systems such as radar, sonar, imaging, and test instrumentation. This course presents the mathematical basis of signal processes, signal processing algorithms and software techniques, and the architecture of modern signal processing hardware. The mathematics and implementations of digital signal processes using integer and floating-point arithmetic will be studied in detail. The use of standard off-the-shelf processors, as well as special-purpose hardware, will be studied. Signal processing software will be furnished to each student. Demonstrations of signal processing techniques will be demonstrated on contractor-supplied computers. The hardware and software necessary to implement the processing methods will also be discussed, including an introduction to the analysis of computation and storage requirements.

To enroll, submit an On-Board Training Request (NAWCWPNS 12410/2) to Mary Glasmann, Code 733000E. For further information, call 989-3982 (DSN 351-3982).

TAGUCHI METHODS (16 hrs.)

21-22 May; Tuesday-Wednesday, 0800-1600; Location TBD, Point Mugu. By: University of Massachusetts Lowell

Note: Meets SEDP requirement for statistic/Taguchi methods.

Taguchi methods and similar DOE methodologies, such as Yates algorithms, have shown their beneficial use in many companies and on different design and manufacturing applications. They are used as tools to increase the engineers' knowledge of the product design and manufacturing process.

This course is designed for the practicing engineers and technicians and assumes no prior knowledge of these methods. Examples and case studies are used to illustrate these techniques, and all are drawn from the instructor's many years of personal experiences in industry and academia. Participants should be able to acquire new skills enabling them to successfully conclude a project to improve manufacturing and new product quality and reduce process variability.

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).

RESPONSIBLE EMPOWERMENT (16 hrs.)

21-22 May; Tuesday-Wednesday, 0800-1600; Channel Islands Motel, Point Mugu. By: Roger Kirkham

Empowering employees, by itself, does not ensure productive thinking. Employee involvement should not be a goal in itself. A supervisor/team leader as "coach" has much more influence than a supervisor as "boss." This course provides supervisors/team leaders with coaching skills and techniques to ensure that empowerment includes accountability; employee involvement focuses on improvement; everyone is pulling in the same direction; control of quality and service is verifiable; malicious compliance is prevented; and problems are prevented.

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).

INTRODUCTION TO MACINTOSH (8 hrs.)

23 May; Thursday, 0800-1600; Training Center, China Lake

This class is designed for people with little or no experience using the Macintosh computer system.

To enroll, contact Annette Hernandez via QuickMail with your name, code, social security number, and phone number. For further information, call 939-0870 (DSN 437-0870).

EXCEL 4.0 FOR MACINTOSH UPGRADE TO 5.0 (8 hrs.)

29 May; Wednesday, 0800-1600; Training Center, China Lake

Prerequisite: Ability to use a Macintosh computer.

This class is designed for people familiar with the Excel 4.0 for Macintosh program who now have the Excel 5.0 version.

To enroll, contact Annette Hernandez via QuickMail with your name, code, social security number, and phone number. For further information, call 939-0870 (DSN 437-0870).

MICROWAVES INTRODUCTION: COMPONENTS, CIRCUITS, MEASUREMENTS (40 hrs.)

3-7 June, 0800-1600; Point Mugu, Bldg. 1, Conference Room. By: Quintech Corp

Intended Audience: Technicians and other persons who need information on microwaves for radar, communication, and measurement applications.

Prerequisites: Students should have sufficient technical background and interest to understand the material presented.

This course addresses the basic concepts and applications of microwaves, microwave devices, and microwave circuits. Topics include intro and definitions, review of electronic principles, impedance, resistance, reactance, admittance, conductance, susceptance, transmission line principles, transmission lines, microwave resonators, passive microwave devices, ferrimagnetic devices, microwave switches, vacuum devices, solid-state devices, microwave antennas, measurements, and microwave systems.

The course is designed to help technical personnel gain knowledge of microwaves to assist them in their jobs, and to prepare them for more advanced training in radar, communications, microwave systems design and measurements, including specific microwave-based systems.

To enroll, submit an On-Board Training Request (NAWCWPNS 12410/2) to Marcy Glasmann, Code 733000E. For further information, call 989-3982 (DSN 351-3982).

FUNDAMENTALS OF STEALTH AND LOW OBSERVABLE TECHNOLOGY (24 hrs.)

3-6 June; Monday-Thursday, 0800-1600, Location TBD, Point Mugu. By: Monterey Consulting Services (Dr. Allen Fuchs)

Prerequisite: Bachelor's degree level in science or engineering.

Various facets of stealth initiate the course and lead to radar cross section (RCS) and later in the course, laser radar cross section (LCS). Basic features of electromagnetic (EM) scattering are presented. Having a foundation of EM fundamentals, the focus shifts to RCS calculations for simple shapes and radar range equation. Payoff of stealth is also discussed. The relation of RCS to aircraft design features uses the information presented to this point.

DOWNSIZING WORKSHOPS

UPDATING YOUR SF-171/OF-612/ RESUME

These workshops will provide instruction in how to prepare an exceptional SF-171/OP-612/Resume. Participants will learn to organize their career in writing, selecting, and presenting career events clearly and concisely, and cataloging their skills and accomplishments.

Point Mugu

9 May; Thursday, 0900-1100; Location TBD

China Lake

6 June; Thursday, 0900-1100; Training Center

JOB INTERVIEWING SKILLS WORKSHOPS

Job interviewing workshops that will provide interviewing techniques for those anticipating being interviewed for job vacancies will be held at China Lake and Point Mugu on the following days.

China Lake

24 April; Wednesday, 1300-1530; Training Center, Room 211

CAREER TRANSITION WORKSHOPS (16 hrs.)

These workshops introduce the participants to key job change and enrichment strategies. Participants will identify personal interests and strengths and analyze their current jobs and career aspirations. With this information, participants 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.

Point Mugu

26-27 June; Wednesday-Thursday, 0800-1600; Location TBD

China Lake

25-26 April; Thursday-Friday, 0800-1600; Training Center

FINANCIAL PLANNING FOR CAREER TRANSITION WORKSHOPS

These workshops provide financial planning information for employees anticipating leaving federal service before retiring. Participants will learn about deferred retirement benefits, calculate potential reductions, and estimate an annuity amount and recognize the advantages and disadvantages of taking a refund. Employees will learn about the continuation of life and health insurance, how to make appropriate decisions regarding Thrift Savings Plan contributions, and receive an overview of severance pay and unemployment benefits. Participants will learn how to take immediate steps to reduce debt and decrease financial problems and find out about community resources and support activities.

China Lake

24 April; Wednesday, 0800-1600; Training Center, Room 205 (FERS only)

1 May; Wednesday, 0800-1600; Training Center, Room 114 (CSRS only)

2 May; Thursday, 0800-1600; Training Center, Room 114 (FERS only)

Point Mugu

25 April; Thursday, 0800-1600; Bldg. 36, Management Information Center (CSRS only)

26 April; Friday, 0800-1600; Bldg. 6, BOQ Conference Room, Point Mugu (FERS only)

29 April; Monday, 0800-1600; Bldg. 6, BOQ Conference Room, Point Mugu (CSRS only)

30 April; Tuesday, 0800-1600; Bldg. 36, Management Information Center (FERS only)

To enroll at Point Mugu, submit an On-Board Training Request (NAWCWPNS 12410/2) to Mary Glasmann, Code 733000E. For further information, call 989-3982 (DSN 351-3982).

To enroll at China Lake, submit an On-Board Training Request (NAWCWPNS 12410/2) to Sue Murray, Code 733000D. For further information, call (619) 939-2349 (DSN 437-2349).

Examples of stealth vehicles include B-2 and F-117A as well as F-22 and F-23. For complex scattering bodies, methods for calculating RCS are discussed. The Infrared Observables session will provide a background and military application of infrared; atmospheric effects; detection range and detection probability; resolution, aspects of implementation; target signatures; stealth applied to infrared; infrared technology; and plume temperatures for afterburning turbojet and turbofan engines. The Acoustical Signatures topic will provide an understanding of military importance of acoustics; give methods of describing and characterizing acoustical signatures; and furnish facts about sources of noise (airframe, propulsion, sonic boom, jet). The Visible Spectrum, Camouflage lecture will provide vocabulary, definition, and a framework for understanding the role of camouflage; establish facets of the surveillance threat; explain countermeasures and camouflage tools; describe principles for reduced visible signature; and discuss range effects on visual stealth and camouflage.

To enroll, submit an On-Board Training Request (NAWCWPNS 12410/2) to Marcy Glasmann, Code 733000E. For further information, call 989-3982 (DSN 351-3982).

BASIC SUPERVISION (40 hrs.)

3-7 June; Monday-Friday, 0800-1600; CECOS, Room 290, Point Mugu. By: Teri Mahaney

Students will learn the basics of effective supervision and how to accomplish more with and through people. Learn your own leadership, motivation, and communication styles and how they affect your supervisory style. Practice delegating, drafting performance appraisals, and giving feedback—both positive and negative. Identify your change profile and your appropriate time management system. Develop usable skills in everyday working and living.

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).

POINT MUGU GENERAL ANNOUNCEMENTS

CIVILIAN EMPLOYEE ASSISTANCE PROGRAM (CEAP)

Getting help when you have a problem can be a problem. Do you know that there is someone you can talk to if you or someone in your family is having difficulties? There is no charge for CEAP services, which 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. 2-825 (University of La Verne). All interviews are confidential. For further information, call Martha or Bob at 989-7708 or 989-8161.

LABOR REPRESENTATIVE FOR BARGAINING UNIT EMPLOYEES

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

JOB FAIR

A Job Fair will be held at the Point Mugu Restaurant, Point Mugu, on **8 May** from 1400 to 1930. Potential employers will make presentations on job positions available for prospective employees.

MARKETING YOURSELF FOR A SECOND CAREER

The Point Mugu Family Service Center will present a lecture on "Marketing Yourself for a Second Career" on Monday, **29 April** from 0830 to 1100 at the Bldg. 3015 Auditorium.

For more information, contact the Point Mugu Family Service Center at (805) 989-8146.

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 (619) 939-2018.

CHINA LAKE

Doug Mendez, Code 824210D

Doug was injured in a vehicle accident and has a broken back.

Dave King, Code 823440D

Dave is caring for a family member.

Debbie Hurt, Code 472G40D

Debbie is suffering from severe allergy and asthma problems.

Neil La Fortune, Code 823600D

Neil is having lower back surgery.

Susan Wigfield, Code 230000D

Susan has a medical problem.

Victoria Wintjen, Code 823220D

Victoria is recovering from surgery and is being treated for a brain tumor.

Tina Liszka, Code 413100D

Tina has a medical problem.

Leslie Folden, Code 826400D

Leslie is currently under a physician's care for a chronic condition.

Jerry Chisholm, Code 823600D

Jerry is recovering from surgery.

Judy Post, Code 761100D

Judy is having surgery to repair a ruptured disk in her neck.

Jeanie Salyer, Code 734000D

Jeanie is undergoing peritoneal dialysis while awaiting a kidney transplant.

POINT MUGU

Juanita Faye Blunt, Code 529110E

Juanita has been diagnosed with lymphoma.

Leticia Moreno, Code 521D00E

Leticia has pregnancy complications/early delivery.

Lupe Wilson, NAVSOC

Lupe is under a doctor's care.

Calvin Hayashi, Code 454620E

Calvin has undergone spinal surgery to correct a degenerated disk.

Theron Merrel, Code 834210E

Theron is recovering from back surgery.

Simpriano Villaruz, Code 562200E

Simpriano suffered a heart attack on 10 March.

William Peavyhouse, Code 522730E

William suffered a severe medical trauma requiring extended convalescence.

Anita Retome, Code 453300E

Anita is caring for her daughter, who needs medical attention.

Marilyn Smith, Code 836500D

Marilyn is recovering from knee surgery.

Larry Blair, Code 475200E

Larry has undergone surgery.

Robert E. Irving, Code 832620E

Robert has undergone two spinal surgeries.

Kathleen Bendot, Code 482100E.

Kathleen is on maternity leave.

Norma Lavin, Code NAWs ADMIN

Norma is under a doctor's care.

Christine Doria Augustine, Code 763100E

Christine is on maternity leave.

Mercy Trevino, Code 423400E

Mercy is on maternity leave.

Michael Tibbs, Code 413200E

Michael has ideopathic congenital lymphedema (Milroy's disease). He will be undergoing his 203rd major operation, which will consist of a left-foot transmetatarsal amputation.

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.

ELECTRONIC WARFARE TECHNOLOGY (32 hrs.)

22-25 April; Monday-Thursday, 0800-1600; Bldg. 323, Room 159, Point Mugu. By: Evolving Technology Institute

The course provides the basics of electronic warfare (EW) by first describing the attributes of modern radar systems, summarizing the various electronic support measures and electronic intelligence (ESM/ELINT) techniques for detection and providing the means for situational assessment of the battle space, followed by the ECM techniques used for the selection of the appropriate jamming waveform. This course is intended for engineers

and other personnel requiring a technology basis to EW topics including ESM and ELINT systems for the interception and analysis of radar signals.

The radar segment of the course begins by categorizing the radar types and outlining the radar waveforms that can be analyzed in an unclassified manner, to provide type classification and identification, passive location, and operating mode as the key to threat intention. Search and acquisition radar, track radar, and missile radar are considered. A review of the fundamentals of aircraft survivability with the role of signature control, together with passive and active EW are illustrated. The ESM/ELINT

segment includes the probability of intercept, direction findings and passive target location, as well as the receiver characteristics that are required for the use of passive RF systems for the purpose of emitter interception and analysis. The ECM segment considers the countermeasure techniques used to prevent or delay the hostile radar system ability to detect, acquire, track, or launch. Effectiveness methods will be illustrated.

To enroll, submit an On-Board Training Request (NAWCWPNS 12410/2) to Marcy Glasmann, Code 733000E. For further information, call 989-3982 (DSN 351-3982).

CSUC COMPUTER SCIENCE ADVISING

Dr. Orlando Madrigal of California State University, Chico (CSUC), will be at China Lake on **10 May** to advise current and prospective students in the external degree programs offered by the school in computer science. The programs lead to bachelor's and master's degrees. To schedule an appointment with Dr. Madrigal, call Cecil at 939-0878.

WORD 6.0 FOR MACINTOSH, ADVANCED (16 hrs.)

25-26 April; Thursday-Friday, 0800-1600; Training Center, China Lake.

This class is designed for experienced users who want to enhance their skill level with the Word 6.0 for Macintosh for Macintosh program.

To enroll, contact Annette Hernandez via QuickMail with your name, code, social security number, and phone number. For further information, call 939-0870 (DSN 437-0870).

QUERY AND DISPLAY DATA WITH SQL AND SQL*PLUS (16 hrs.)

29-30 April; Monday-Tuesday, 0800-1600; Training Center, China Lake. By: Oracle Corporation

Required Prerequisites: Introduction to Oracle; at least 1 month of professional application development using the Oracle server.

Intended Audience: Application developers, systems designer/developers, and technical support personnel.

The participants will learn to query and display data by writing SQL and SQL*Plus statements. Topics include relational database concepts; query and display data with SQL; alter the display of character, number, and date data; format reports; organize data into groups; display data from multiple tables; and Nest queries.

To enroll, submit an On-Board Training Request (NAWCWPNS 12410/2) to Mary Glasmann, Code 733000E. For further information, call 989-3982 (DSN 351-3982).

DEMO REFRESHER WORKSHOP FOR SUPERVISORS (3 hrs.)

30 April; Tuesday, 0830-1130; Training Center, China Lake.

2 May; Thursday, 0830-1130; Location TBD Point Mugu.

By: Staff

This workshop will provide an overview of the Demo pay system. Concepts and features of the performance and pay systems including increments and bonuses, performance evaluations, and ratings will be discussed. A question and answer session will follow.

To enroll or ask questions at China Lake, call Lori Ryser at 939-2686 (DSN 437-2686).

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).

DEVELOPING COACHING SKILLS (8 hrs.)

30 April; Tuesday, 0800-1600; Training Center, China Lake. By: Suzanne Hard

The goals of any coaching conversation are to achieve or maintain a positive work relationship between the manager and employee and a new or renewed commitment to the job. Successful coaching also results in one or more positive changes in performance. What these changes are depends on the particular coaching function. There are typical outcomes of each of the four coaching functions of counseling, mentoring, tutoring, and confronting. This training program will integrate and reinforce the major objective throughout the session. The focus will be on interactive, experiential learning with time for analysis, feedback, and development of action plans.

To enroll or ask questions, call Lori Ryser at 939-2686 (DSN 437-2686).

STRESS MANAGEMENT (8 hrs.)

1 May; Wednesday, 0800-1600; Training Center, China Lake. By: Dr. Suzanne Hard, Consultant

Do you react to stress by feeling overloaded and underaccomplished? The workplace and your life are changing at such a rapid pace that sometimes it creates a feeling of hopelessness. Why are people experiencing so much stress today? More importantly, what can you personally do about reducing this stress? The focus is on the importance of adopting a positive lifestyle, developing patterns of good nutrition, exercise, sleep, and maintaining a positive mental attitude. This course is designed to help you become more resilient and to learn new tactics to deal with your stress.

To enroll or ask questions, call Pat Oliver at 939-2468 (DSN 437-2468).

MIL-STD-1553 (18 hrs.)

1-2 May; Wednesday-Thursday, 0800-1700; Training Center, China Lake.

6-7 May; Monday-Tuesday, 0800-1700; Bldg 351, Computer Lab, Point Mugu.

By: TEST SYSTEMS, Inc.

This seminar is designed to provide a solid base for interpreting and understanding the requirements of MIL-STD-1553. Students will be taught MIL-STD-1553 from the design through the testing phases to help them understand a 1553 system in part and in whole. Students will gain practical experience with 1553 messages in the lab sessions and will also be introduced to currently available 1553 products.

The seminar uses a well-rounded approach of lecture, lab sessions, visuals, question and answer, and 1553 manufacture samples to communicate concepts in a clear and dynamic manner. Unlike a simple demonstration, the lab sessions give students "hands-on" experience in analyzing 1553 communication and troubleshooting 1553 Remote Terminal problems. Personal assistance by the instructor is provided during the lab sessions. However, the greatest value of these lab sessions lies in the personal involvement of the student with the concepts being taught. Interaction is accomplished by providing students with a view of the messages being sent on the 1553 data bus and allowing them to manipulate the messages. Using an oscilloscope, students can move from words on paper to actually seeing how bits are encoded, how word formats differ, and what a message sequence looks like. Students also gain experience in trouble-shooting problems in Remote Terminals. Both experienced engineers and novices to 1553 will find this seminar profitable.

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 Mary Glasmann, Code 733000E. For further information, call 989-3982 (DSN 351-3982).

SOFTWARE DEVELOPMENT AND TESTING (40 hrs.)

6-10 May; Monday-Friday, 0800-1600; Training Center, China Lake. By: Evolving Technology Institute, Michael S. Deutsch

Intended Audience: System engineers, software engineers, quality engineers, programmers, and software development managers who need to expand their skills in managing software development for quality improvement.

The course identifies a basic software engineering process framework that has as its basic goal the exploration of customer/user needs translated into a working system, within the constraints of stake-holders and the migration of those needs into an adaptation of that system to changing needs. An approach is introduced that includes the iterative steps of creating a shared vision of system goals, a clear and specific definition of the problem, robust search for the solution, risk management, and effective information management. Especially highlighted is system definition, development, and verification based on user scenarios and threads. The course is organized around four major threads that link together major topics: project success issues, implementing the software engineering process with the user perspective, system quality attribute issues, and techniques for better management. The course outline will cover topics on Success Issues, Implementing the SE Process With the User Perspective, Software Quality Attribute Issues, and Techniques for Managing Better.

To enroll or ask questions, call Pat Oliver at (619) 939-2468 (DSN 437-2468).

MICROSOFT ACCESS, ADVANCED (24 hrs.)

7-9 May; Tuesday-Thursday, 0800-1600; Bldg. 20, Computer Room (PC), Point Mugu. By: Softbite International

Prerequisites: Completion of Part 2 "Programming Microsoft Access Applications" or a working familiarity with the topics covered in Part 2 is the best prerequisite for this class. Attendees should be comfortable using Access Basic, particularly DAO, object variables, and

error handling. Suggested reading assignment handouts will be distributed to people who are confirmed, in preparation for this class. Use the time between now and the seminar to close any gaps in your Access knowledge and gain strengths in weak areas. Place particularly high priority on accumulating "hands-on" experience with Microsoft Access by building the examples found in the prerequisites.

This seminar provides an advanced look at extending the capabilities of Microsoft Access by using API function calls, Access SQL, and other tools. Advanced multi-user topics and the use of Microsoft Access as a front-end to SQL databases will be discussed. Topics include Understanding Access SQL, Advanced Programming Techniques, Advanced Multi-User Application Development, Using the Windows API, Developing Client/Server Applications, Understanding and Using QLF, and Optimizing Applications for Maximum Performance. A DAO overview and advanced multi-user issues will also be covered. Most topics will apply to both versions of Microsoft Access (Microsoft Access for Windows 3.1 and Microsoft Access 7 for Windows 95). This is a technical and fast-paced seminar. As a general rule, the students' overall benefit from this seminar will be maximized if they recreate code examples found in the prerequisite readings. This is a hands-on training course.

To enroll, submit an On-Board Training Request (NAWCWPNS 12410/2) to Mary Glasmann, Code 733000E. For further information, call 989-3982 (DSN 351-3982).

FILEMAKER PRO 2.1 FOR MACINTOSH, INTRODUCTION (16 hrs.)

13-14 May; Monday-Tuesday, 0800-1600; Training Center, China Lake.

Prerequisite: Ability to use a Macintosh computer.

This class is designed for people with little or no experience using the Filemaker Pro 2.1 for Macintosh program.

To enroll, contact Annette Hernandez via QuickMail with your name, code, social security number, and phone number. For further information, call 939-0870 (DSN 437-0870).

FUNDAMENTALS OF STEALTH & LOW OBSERVABLE TECHNOLOGY (24 hrs.)

13-16 May; Monday-Thursday, 0800-1500; Training Center, China Lake. By: Monterey Consulting Services (Dr. Allen Fuchs)

Prerequisite: Bachelor level in science or engineering.

Various facets of stealth initiate the course and lead to Radar Cross Section (RCS), and later in the course, Laser Radar Cross Section (LCS). Basic features of electromagnetic (EM) scattering are presented. Having a foundation of

EM fundamentals, the focus shifts to RCS calculations for simple shapes and radar range equation. Payoff of stealth is discussed. The relation of RCS to aircraft design features uses the information presented to this point. Examples of stealth vehicles include B-2 and F-117A, as well as F-22 and F-23. For complex scattering bodies, methods for calculating RCS are discussed. The Infrared Observables lesson will provide a background and military applications of infrared; atmospheric effects; detection range and detection probability; resolution; aspects of implementation; target signatures; stealth applied to infrared; infrared technology; and plume temperatures for afterburning turbojet and turbofan engines. The Acoustical Signatures topic will provide an understanding of military importance of acoustics, give methods of describing and characterizing acoustical signatures, and furnish facts about sources of noise (airframe, propulsion, sonic boom, jet). The Visible Spectrum, Camouflage lecture will: provide vocabulary, definitions, and a framework for understanding the role of camouflage; establish facets of the surveillance threat; explain countermeasures and camouflage tools; describe principles for reduced visible signature; and discuss range effects on visual stealth and camouflage.

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).

CSUN WRITING EXAM PLANNED

On 30 May a writing proficiency exam will be given to graduate students of California State University, Northridge (CSUN) at China Lake. The exam fee is \$20; make check payable to CSUN. Contact Cecil at 939-0878 by 24 May to take the exam.

CPR COURSES OFFERED AT POINT MUGU

CPR, BASIC PROVIDER (8 hrs.)
0800-1600; Trailer 10076, Point Mugu

This class is for individuals who need to be certified in CPR and do not have a valid CPR card. This class will be offered on the following days:

3 June (Monday)

5 June (Wednesday)

6 June (Thursday)

10 June (Monday)

11 June (Tuesday)

12 June (Wednesday)

19 June (Wednesday)

20 June (Thursday)

To enroll, submit an On-Board Training Request (NAWCWPNS 12410/2) to Mary Glasmann, Code 733000E. For further information, call 989-3982 (DSN 351-3982).

EFFECTIVE PRESENTATIONS

8-9 May, Wednesday-Thursday, Trailer 10076, Point Mugu. By: Mariam Lapan

This course will present specific concepts and techniques to assist employees in strengthening their personal performance during organization presentations. Participants will learn methods to conquer and calm fears of public speaking and enjoy the opportunity of sharing ideas through effective presentations. Topics will include mechanics of the delivery, effective opening and closings, use of humor in winning your audience, evaluation visual aids, and relaxation techniques.

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).

WORD 6.0 FOR MACINTOSH, INTRODUCTON (16 hrs.)

9-10 May; Thursday-Friday, 0800-1600; Training Center, China Lake

Prerequisite: Ability to use a Macintosh computer.

This class is designed for people with little or no experience using the Word 6.0 Macintosh program.

To enroll, contact Annette Hernandez via QuickMail with your name, code, social security number, and phone number. For further information, call 939-0870 (DSN 437-0870).

FILEMAKER PRO 2.1 FOR MACINTOSH, INTRODUCTION (16 hrs.)

13-14 May; Monday-Tuesday, 0800-1600; Training Center, China Lake.

Prerequisite: Ability to use a Macintosh computer.

This class is designed for people with little or no experience using the Filemaker Pro 2.1 for Macintosh program.

To enroll, contact Annette Hernandez via QuickMail with your name, code, social security number, and phone number. For further information, call 939-0870 (DSN 437-0870).

FUNDAMENTALS OF STEALTH & LOW OBSERVABLE TECHNOLOGY (24 hrs.)

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Prerequisite: Bachelor level in science or engineering.

Various facets of stealth initiate the course and lead to Radar Cross Section (RCS), and later in the course, Laser Radar Cross Section (LCS). Basic features of electromagnetic (EM) scattering are presented. Having a foundation of

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0800-1600; Trailer 10076, Point Mugu

This class is for individuals who need to be certified in CPR and do not have a valid CPR card. This class will be offered on the following days:

3 June (Monday)

5 June (Wednesday)

6 June (Thursday)

10 June (Monday)

11 June (Tuesday)

12 June (Wednesday)

19 June (Wednesday)

20 June (Thursday)

To enroll, submit an On-Board Training Request (NAWCWPNS 12410/2) to Mary Glasmann, Code 733000E. For further information, call 989-3982 (DSN 351-3982).

EFFECTIVE PRESENTATIONS

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This course will present specific concepts and techniques to assist employees in strengthening their personal performance during organization presentations. Participants will learn methods to conquer and calm fears of public speaking and enjoy the opportunity of sharing ideas through effective presentations. Topics will include mechanics of the delivery, effective opening and closings, use of humor in winning your audience, evaluation visual aids, and relaxation techniques.

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).

WORD 6.0 FOR MACINTOSH, INTRODUCTON (16 hrs.)

9-10 May; Thursday-Friday, 0800-1600; Training Center, China Lake

Prerequisite: Ability to use a Macintosh computer.

This class is designed for people with little or no experience using the Word 6.0 Macintosh program.

To enroll, contact Annette Hernandez via QuickMail with your name, code, social security number, and phone number. For further information, call 939-0870 (DSN 437-0870).

FUNDAMENTALS OF STEALTH & LOW OBSERVABLE TECHNOLOGY (24 hrs.)

13-16 May; Monday-Thursday, 0800-1500; Training Center, China Lake. By: Monterey Consulting Services (Dr. Allen Fuchs)

Prerequisite: Bachelor level in science or engineering.

Various facets of stealth initiate the course and lead to Radar Cross Section (RCS), and later in the course, Laser Radar Cross Section (LCS). Basic features of electromagnetic (EM) scattering are presented. Having a foundation of

CSUN WRITING EXAM PLANNED

On 30 May a writing proficiency exam will be given to graduate students of California State University, Northridge (CSUN) at China Lake. The exam fee is \$20; make check payable to CSUN. Contact Cecil at 939-0878 by 24 May to take the exam.

CPR COURSES OFFERED AT POINT MUGU

CPR, BASIC PROVIDER (8 hrs.)
0800-1600; Trailer 10076, Point Mugu

This class is for individuals who need to be certified in CPR and do not have a valid CPR card. This class will be offered on the following days:

3 June (Monday)

5 June (Wednesday)

6 June (Thursday)

10 June (Monday)

11 June (Tuesday)

12 June (Wednesday)

19 June (Wednesday)

20 June (Thursday)

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).

COMPLETE OFFICE MANAGEMENT (16 hrs.)

13-14 May; Monday-Tuesday; 0800-1600; Training Center, Room 205, China Lake.

15-16 May; Wednesday-Thursday; 0800-1600; Trailer 10076, Point Mugu.

By: J&K Associates

This seminar focuses on the major office skills that support staff should have in order to work in today's high-producing office. Skills will be learned in accepting change, teamwork, increased cooperation, working with different personalities, conflict management, listening and memory, time management, stress control, overcoming procrastination, career pathing, and professional self-imagining.

Deadline: 2 May

To enroll at China Lake, submit an On-Board Training Request (NAWCWPNS 12410/2), to Sue Murray, Code 733000D. For further information call (619) 939-2349 (DSN 437-2349).

To enroll at Point Mugu, submit an On-Board Training Request (NAWCWPNS 12410/2), to Mary Glasmann, Code 733000E. For further information call (805)989-3982 (DSN 351-3982).

FEDERAL APPROPRIATIONS LAW (24 hrs.)

14-16 May; Tuesday-Wednesday, Training Center, Room 211, China Lake.

If your work involves understanding the legal aspects of federal appropriations, this seminar and the accompanying reference text are important to you. You will be able to track the typical Congressional sequence—organic or enabling act, authorization, and appropriation; recognize how lump-sum and line-item appropriations parallel block and categorical grants; know the ground rules for reprogramming; apply legal reasoning to appropriations; and understand how GAO audits administration spending. Topics covered will include authorizations, sequestrations, continuing resolutions, and Comptroller General decisions.

To enroll, contact Pat Nogle via QuickMail or at 939-3159.

COMMUNICATING ACROSS CULTURES (8 hrs.)

15 May; Wednesday, 0800-1600; Training Center, China Lake. By: Graduate School USDA

Note: This course meets the supervisor's yearly EEO training requirements.

This course will provide an understanding of how to be more sensitive to issues surrounding workforce diversity and help the participants become more effective in communicating with people from diverse cultures and ethnic groups.

To enroll or ask questions, call Lori Ryser at 939-2686 (DSN 437-2686).

RETIREMENT FOR YOUNGER EMPLOYEES (8 hrs.)

15 May; Wednesday, 0800-1630; Bldg. 323, Mini Theater and Room 159. By: Labor/Employee Relations, Code 731000E

This seminar consists of several lectures that discuss the facts affecting retirement, such as those relating to Civil Service Retirement System (CSRS) and FERS, Thrift Savings Plan, health insurance, life insurance, Social Security, income tax, and financial planning, estates, trusts, and wills. This course includes pertinent topics from the Pre-Retirement Seminar, with emphasis on what to look for in planning for retirement. This course is recommended for employees beyond 2 years of employment and those within more than 5 years of retirement.

To enroll, submit an On-Board Training Request (NAWCWPNS 12410/2) to Mary Glasmann, Code 733000E. For further information, call 989-3982 (DSN 351-3982).

SYSTEMS ENGINEERING (40 hrs.)

20 May-24 May; Monday-Friday, 0800-1630; Location TBD, Point Mugu. By: Robert Olson, Code 41E000D

Note 1: This class meets the SYS 201 DAWIA Training requirement for DP IIs. This class will also meet the System Engineering class requirement for enrollees in the SEDP program and the formerly titled TMC/TMDP and SEC programs.

Note 2: At the completion of this class, students desiring SYS 201 credit must complete DD Form 2518 (fulfillment form) and return it to Code 733000E.

This course provides an overview of systems engineering, addressing what a system is, why systems engineering is needed in the development and change of complex systems, the DOD acquisition system, the basic elements of the systems engineering process (in general and as the process is implemented within the DOD acquisition system), the engineering speciality area interfacing with systems engineering, and how systems engineering must interface with the engineering specialties to form an effective interdisciplinary technical team. Included are discussions on need definition, identification, and definition of alternative solutions and their

PROFESSIONAL DEVELOPMENT WORKSHOP (16 hrs.)

15-16 May; Wednesday-Thursday; 0800-1600; Building 6, BOQ Conference Room, Point Mugu. By: Marion Lapan

This seminar focuses on enhancing the scope of professionalism within the administrative support role. Skills will be taught to assess one's own leadership style; understand and work efficiently with the behavioral styles of co-workers and supervisors; build trust, integrity, confidentiality, and morale as a member of the office team; cope with job pressures and tension; and organize time and workspace.

Deadline: 10 May

To enroll, submit an On-Board Training Request (NAWCWPNS 12410/2), to Mary Glasmann, Code 733000E. For further information, call (805) 989-3982 (DSN 351-3982).

QUERY AND DISPLAY DATA WITH ORACLE TOOLS (16 hrs.)

20-21 May; Monday-Tuesday, 0800-1600; Training Center, Point Mugu. By: Oracle Corporation

Prerequisites: Suggest prior end user computer experience, query and display data with SQL and SQL*Plus.

Intended Audience: End users, managers, DBMS novices, CASE developers; and CDE systems analysts.

The participants will develop the necessary skills to operate a forms application with Oracle Forms (V4), run a report with Oracle Reports (V2), view an on-line document with Oracle Book (V1), and display graphical data with Oracle Graphics (V2). Topics include relational database concepts, Operate Oracle forms (V4) application, Run Oracle reports (V2), view an on-line document with Oracle book (V1), and display graphical data with Oracle graphics (V2).

To enroll, submit an On-Board Training Request (NAWCWPNS 12410/2) to Mary Glasmann, Code 733000E. For further information, call 989-3982 (DSN 351-3982).

DIGITAL CIRCUITRY SYSTEMS (32 hrs.)

20-23 May; Monday-Friday, 0800-1600; Bldg. 1, Conference Room, Point Mugu. By: Evolving Technology Institute, David D. Lynch, Jr.

Intended Audience: Electronic technicians who are required to repair and maintain modern Navy electronic weapons systems.

Prerequisites: Completion of a basic course in digital electronics or the equivalent work experience.

Troubleshooting modern Naval electronic equipment often appears to be a highly complex task. This course lays the foundation for technicians to first understand the basics of digital systems; how to approach and accurately troubleshoot any digital electronic systems,

Course Title	Dates	Times	Hours	Location	Course Title	Dates	Times	Hours	Location
Engineering and Scientific					EMI Controls for Naval Shore Based Content: Updated Gratuitous Course				
Electronic Warfare Technology	Apr 22-25	0800-1600	32	PM					
MIL-STD-1553-Multiplex Bus	May 1-2	0800-1700	18	CL					
Fundamentals of Stealth (Including Low Observables)	May 13-16	0800-1600	32	CL	SAFETY AND SECURITY				
MIL-STD-1553-Multiplex Bus	May 6-7	0800-1700	18	PM	CPR				
Digital Signal Processing	May 20-24	0800-1600	40	PM	CPR Renewal	May 10	0800-1200	4	PM
Fundamentals of Stealth (Including Low Observables)	Jun 3-6	0800-1600	32	PM	CPR Basic Provider	Jun 3	0800-1600	8	PM
IR/RF Technology	Jun 10-13	0800-1600	32	PM	CPR Basic Provider	Jun 5	0800-1600	8	PM
Kalman Filtering	Jun 17-21	0800-1600	40	CL	CPR Basic Provider	Jun 6	0800-1600	8	PM
Antenna Technology	Jun 24-27	0800-1600	32	PM	CPR Renewal	Jun 7	0800-1200	4	PM
Inertial Navigation and Guidance	Jul 15-19	0800-1600	40	PM	CPR Basic Provider	Jun 10	0800-1600	8	PM
IR/RF Technology	Jul 22-25	0800-1600	32	CL	CPR Basic Provider	Jun 11	0800-1600	8	PM
Inertial Navigation and Guidance	Jul 29-Aug 2	0800-1600	40	CL	CPR Basic Provider	Jun 12	0800-1600	8	PM
Simulation and Modeling	Aug 5-8	0800-1600	32	PM	CPR Renewal	Jun 13	0800-1200	4	PM
Simulation and Modeling	Aug 19-22	0800-1600	32	CL	CPR Basic Provider	Jun 19	0800-1600	8	PM
ECM Environments	Sep 9-12	0800-1600	32	PM	CPR Basic Provider	Jun 20	0800-1600	8	PM
					CPR Renewal	Jun 21	0800-1200	4	PM
Systems Engineering Development					SECRETARIAL				
Environmental Engineering	4th Quarter	0800-1600	8	CL	Clerical				
Environmental Engineering	4th Quarter	0800-1600	8	PM	Complete Office Management	May 13-14	0800-1600	16	CL
Integrated Logistics Support	4th Quarter	0800-1600	8	CL	Complete Office Management	May 15-16	0800-1600	16	PM
Integrated Logistics Support	4th Quarter	0800-0600	8	PM	Professional Development Workshop	May 15-16	0800-1600	16	PM
Systems Integration (This course to cover Avionics, A/C Integration, and Platform Integration from systems a engineering perspective.)	4th Quarter	0800-1600	16	CL	Secretarial Certificate				
Systems Integration (This course to cover Avionics, A/C Integration, and Platform Integration from a systems engineering perspective.)	4th Quarter	0800-1600	16	CL	Interpersonal Communications	TBD	0730-1150	16	CL
Systems Engineering Management	May 20-24	0800-1600	40	PM	Files Improvement & Records Disposition	Jul 16-17	0800-1130	8	CL
Technical					TECHNICIAN				
Electromagnetic Radiation Hazards Awareness	Jul 15-16	0800-1600	16	CL	Digital Circuitry Systems	May 20-23	0800-1600	32	PM
Updated Content					Microwave Circuits & Measurements	Jun 3-7	0800-1600	40	PM
Gratuitous Course					Data Acquisition With Macintosh & Stand-Alone Systems	Sep 23-25	0800-1600	24	CL

NAWCWPNS FY96 COURSE CATALOG

DIVISION HEAD: Dr. Ruth Boyle CL 939-0872 or PM 989-3991
ASSOCIATE: Pati Burgess PM 989-3998
POC CHINA LAKE: Nancy Saxton CL 939-3129

EMPLOYEE DEVELOPMENT DIVISION
Code 733000D/E

ORGANIZATIONAL INFORMATION
Point Mugu (805) 989-7956; DSN 351-XXXX
China Lake (619) 939-2675; DSN 437-XXXX
FAX: Point Mugu 989-9846; China Lake 939-2548
Course Schedule Lines: China Lake 939-2415 Point Mugu 989-7956

ADMINISTRATIVE SUPPORT

TELEPHONE

COMPETENCY

RESPONSIBILITY

Christy De La Rosa	989-3995		Facilities, Budget, Equipment
Randy Platt	939-0868		Division Support
TEAM 1: Competencies 0.0, 3.0, 7.0			
Pati Burgess (Lead)	989-3998	0.0, 7.0, 7.1, 7.3, 7.6, 7.7	Executive/Leadership/Supervisor
Sandy Brigham	989-3996	3.0	CAO, SEMDP, TQL, EEO
Marcy Acosta	989-3992		Computer Education, SEDP, Executive/Management/Supervisory Support
Lori Ryser	939-2686		NAEI, FEI, OPM, Brookings
Jim Diderrich	989-3994	7.2, 7.4, 7.5	Special Projects, Computer Education Safety, Security, CPR, Single Financial Management Systems (SFMS)

TEAM 2: Competencies 4.1, 4.2, 4.5, 4.6, 4.8, 4J, 4K, 5.0

Julie Streets (Lead)	989-3984	5.0, 5.3	Fellowships, Career Planning & Transition, Resource Center
Cliff Lewis	989-3009	4.8, 4J, 4K	Engineering, Scientific, Single Financial Management Systems (SFMS)
Ron Rogers	989-3997	4.1, 4.5, 4.6	SEDP, Missile/Rocketeer Insert
Lily Horton	989-3987	5.2, 5.4, 5.6, White Sands	Computer Engineering, Technician Training, Retirement
Dorothy Wiederhold	939-2359		CL TMC/SEC, Engineering, Scientific, Computer Engineering, Technician Training, Career Transition and Resource Center, China Lake Lead
Sue Murray	939-2349		CL Secretarial Certificate, Clerical, New Employee Orientation, Fellowship, CTPC, Retirement, Career Planning
Mary Glasmann	989-3982		PM Career Planning, CTPC, Retirement, Computer Engineering Technician, Scientific and Engineering, New Employee Orientation POC

TEAM 3: Competencies 1.0, 2.0, 8.0 (PM)

Nancy Saxton (Lead)	939-3129	1.0, 2.0	DAWIA
Helen Casteel	989-3003	8.0 (PM)	DAWIA, Procurement, Trades (NAWS), Communication, Administrative (Personnel, Finance, Equipment)
Pat Oliver	939-2468		CL DAWIA/Procurement
Pat Nogle	939-3159		CL Communication, Trades (PW), Safety, Security, CPR, Environmental (Financial, Personnel, Equipment)
Felicia Nickelberry	939-3980		PM DAWIA, Procurement, Trades, Communication, Financial, Personnel, Wellness (PM), Safety, Security, POC OCPM/OPM/NISC

TEAM 4: Competencies 4.0, 4.7, 8.0 (CL)

Bill Bethke (Lead)	939-0877	4.0, 4.7	NTU, TVIS/Learning Center, TIS
Cecil Webb	939-0878	8.0 (CL)	Academic
Annette Hernandez	939-0870		Computer Education, TIS
Tammy Berry	939-2451		NTU, TVIS, Learning Center, CL Facility Request 1556s

TRAINING RECORDS (MANTIS) DATABASE CONTACTS

Bill Bethke (Lead)	939-0877	
Christy De La Rosa	989-3995	Point of Contact, Point Mugu
Annette Hernandez	939-0870	Point of Contact, China Lake

GENERAL INFORMATION

COST: Training offered in the FY96 Schedule is funded by the Command and is at no cost to NAWCWPNS organizations.

REGISTRATION PROCEDURES: To enroll in a class, nominations should be submitted to the site where the course is being held. The On-Board Training Request Form (NAWCWPNS 12410/1 (9-92)) is used for submitting nominations and is available at Servmart/Telemart. To enroll in a course, call the phone number listed in the announcement. If there is no phone number listed, submit the On-Board Training Request Form to Code 733000D or E. Nomination forms should be submitted as early as possible to preclude courses from being canceled because of low enrollment. NAWCWPNS employees may attend training at either site, with supervisory approval and on a space-available basis.

CONFIRMATION PROCEDURES: Attendance will be confirmed by the Employee Development Division by returning Copy 2 of the On-Board Training Request Form to the employee. Telephone enrollments will be confirmed at the time the call is placed.

TO CANCEL A COURSE: Employees are asked to call the Employee Development Division immediately upon learning that they cannot attend a course. An early phone call permits another employee to occupy the canceled space.

COURSE HOURS: Unless otherwise stated in the course announcement, classes begin at 0800. Instructors do not wait for those who are late. Alternates will be permitted to attend if an employee has not shown up or called 15 minutes after the class begins. Employees on the 9-hour work shift are expected to report to their worksite prior to the session or after completion of the session.

ACCOMMODATIONS FOR HANDICAPPED EMPLOYEES: Every effort is made to ensure that employees are accommodated. Please notify the course point of contact in advance for any special provisions required.

40-HOURS-OF-TRAINING-PER-EMPLOYEE POLICY: Supervisors must ensure that each employee receives a minimum of 40 hours of training per year. The 40-hour training report is provided to NAVAIR at the end of each quarter. The 40-hour training requirement can be met in several ways.

Course Title	Dates	Times	Hours	Location	Course Title	Dates	Times	Hours	Location
BUSINESS ADMINISTRATION					CAREER AND LIFE PLANNING				
Communications					Career Planning				
Effective Presentations	Apr 23-24	0800-1600	16	CL	Financial Planning for Career Transition	Apr 24	0800-1600	8	CL
Effective Presentations	May 8-9	0800-1600	16	PM	Interviewing With Power and Confidence	Apr 24	1300-1500	2	CL
Grammar Refresher	Jun 4	0800-1600	8	CL	Career Transition Workshop	Apr 25-26	0800-1600	16	CL
Effective Presentations	Jul 9-10	0800-1600	16	CL	Financial Planning for Career Transition	Apr 25	0800-1600	8	PM
Effective Interaction Skills	Aug 28-29	0800-1600	16	CL	Financial Planning for Career Transition	Apr 26	0800-1600	8	PM
Financial					Financial Planning for Career Transition	Apr 29	0800-1600	8	PM
Federal Appropriations Law	May 14-16	0800-1600	24	CL	Financial Planning for Career Transition	Apr 30	0800-1600	8	PM
Defense Business Operations Funds (DBOF)	Jul 16-18	0800-1600	24	PM	Financial Planning for Career Transition	May 1	0800-1600	8	CL
					Financial Planning for Career Transition	May 2	0800-1600	8	CL
					Updating Your SF-171/OF-612/Resume	May 9	0900-1100	2	PM
					Career Transition Workshop	May 22-23	0800-1600	16	CL

Course Title	Dates	Times	Hours	Location	Course Title	Dates	Times	Hours	Location
Updating Your SF-171/OF-612/Resume	Jun 6	0900-1100	2	CL	Creative Thinking and Problem Solving	Jun 20-21	0800-1600	16	PM
Career Transition Workshop	Jun 26-27	0800-1600	16	PM	Leadership Skills for Non-Supervisors	Jun 26	0800-1600	8	CL
Retirement					Skills for Conflict Resolution	Jul 18-19	0800-1600	16	PM
Pre-Retirement Seminar	Apr 24-25	0800-1630	16	CL	Developing Coaching Skills	Aug 8	0800-1600	8	PM
Retirement Planning for Younger Employees	May 15	0800-1630	8	PM	EEO				
Retirement Planning for Younger Employees	Jun 5	0800-1630	8	CL	Communicating Across Cultures	May 15	0800-1600	8	CL
Pre-Retirement Seminar	Jul 16-17	0800-1630	16	PM	EEO Issues for Supervisors	Jul 23	0830-1600	8	CL
Pre-Retirement Seminar	Aug 14-15	0800-1630	16	CL	Executive/Management Development				
Retirement Planning for Younger Employees	Sep 18	0800-1630	8	PM	Basic Supervision	Jun 3-7	0800-1600	40	PM
COMPUTER EDUCATION					Administrative Policies & Procedures	Aug 13-24	0800-1600	24	PM
Macintosh					Total Quality Leadership (TQL)				
Word 6.0 for Macintosh, Introduction	May 9-10	0800-1600	16	CL	Taguchi Methods	May 21-22	0800-1600	16	PM
Filemaker Pro 2.1 for Macintosh, Introduction	May 13-14	0800-1600	16	CL	Benchmarking	Jun 12-13	0800-1600	16	CL
Introduction to Macintosh	May 23	0800-1600	8	CL	TQL Seminar	Aug 29	0800-1600	8	PM
Excel 4.0 for Macintosh Upgrade to 5.0	May 29	0800-1600	8	CL	PROCUREMENT				
Filemaker Pro 2.1 for Macintosh, Introduction	Jun 3-4	0800-1600	16	CL	Statement of Work Preparation	Jun 12	0800-1600	8	PM
Excel 5.0 for Macintosh, Introduction	Jun 11-12	0800-1600	16	CL	Statement of Work Preparation	Jun 20	0800-1600	8	CL
Powerpoint 4.0 for Macintosh, Introduction	Jun 17-18	0800-1600	16	CL	PROFESSIONAL/SCIENTIFIC/TECHNICAL				
Word 6.0 for Macintosh, Introduction	Jun 20-21	0800-1600	16	CL	Communication Engineering				
Excel 5.0 for Macintosh, Advanced	Jun 25-26	0800-1600	16	CL	Netware TCP/IP Transport	Jun 25-26	0800-1600	16	PM
Filemaker Pro 2.1 for Macintosh, Introduction	Jul 9-10	0800-1600	16	CL	Equipment Capability				
Word 5.0 for Macintosh Upgrade to 6.0	Jul 16	0800-1600	8	CL	LAN Troubleshooting	Sep 9-12	0800-1600	32	CL
Word 6.0 for Macintosh, Advanced	Jul 18-19	0800-1600	16	CL	Computer Engineering/Programming				
Powerpoint 4.0 for Macintosh, Introduction	Jul 23-24	0800-1600	16	CL	Oracle: Query & Display Data With SQL & SQL*Plus	Apr 29-30	0800-1600	16	CL
Excel 5.0 for Macintosh, Introduction	Aug 12-13	0800-1600	16	CL	Software Development & Testing	May 6-10	0800-1600	40	CL
DAWIA					MS Access: Advanced	May 7-9	0800-1600	24	PM
Advanced Systems Planning Research Development and Engineering	TBD	0800-1600	40	PM	Oracle: Query & Display Data With Oracle Tools	May 20-21	0800-1600	16	PM
Executive Acquisition Logistics Management	TBD	0800-1600	40	PM	Mathematica	Jun 10-12	0800-1600	24	CL
Intermediate Systems Acquisition	Jun 3-14	0800-1600	80	CL	Development Complex Data Models Design Databases	Jun 24-26	0800-1600	24	PM
Test & Evaluation Management	Sep 9-13	0800-1600	40	PM	Administer the Oracle 7 Databases	Jul 15-19	0800-1600	40	CL
Intermediate Systems Acquisition	Sep 23-Oct 4	0800-1600	80	PM	Electromagnetic Radiation Hazards Awareness	Jul 15-16	0800-1600	16	CL
LEADERSHIP					Geometric Dimensioning & Tolerancing	Aug 12-16	0800-1600	40	PM
Demo Refresher for Supervisors	Apr 30	0830-1130	3	CL					
Demo Refresher for Supervisors	May 2	0830-1130	3	PM					
Responsible Empowerment	May 21-22	0800-1600	16	PM					
Facilitation Skills	Jun 11	0800-1600	8	PM					