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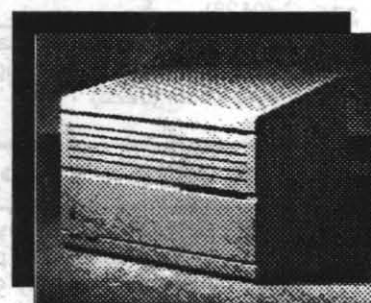
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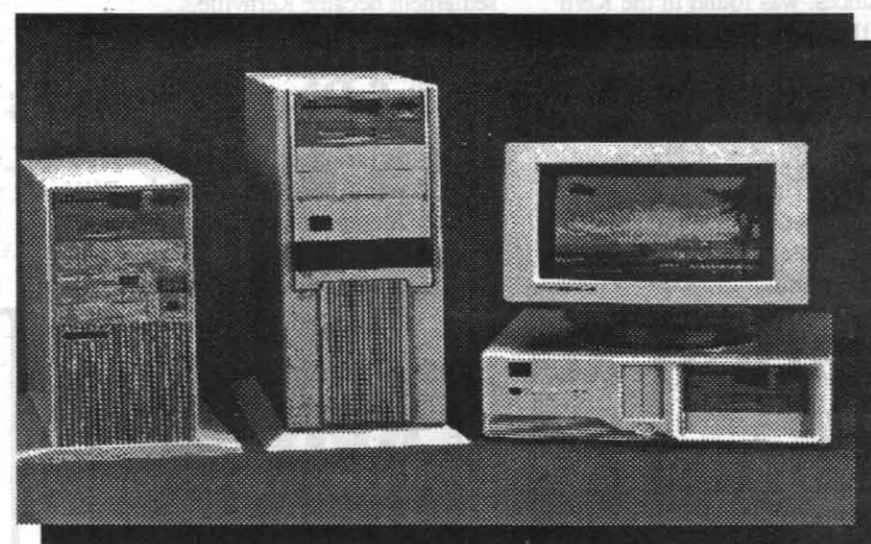
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# THE ROCKETEER

THURSDAY, JANUARY 28, 1993

NAVAL AIR WEAPONS STATION, CHINA LAKE

Vol. 49, No. 2



**SNOW GEESSE** pose a more serious threat to aircraft than most of the 87 bird species in the IVW.

## Peaceful coexistence:

*Environmental Office monitors migratory birds to minimize BASH*

**M**igratory snow geese are a common sight at Naval Air Weapons Station China Lake and in parts of Ridgecrest from September to February.

Attracted to the area by various water sources—primarily the city of Ridgecrest domestic wastewater ponds located on NAWS just north of the golf course and irrigated pastureland near the fairgrounds—as many as 1,000 of the birds winter in the high desert. Some come from as far away as British Columbia and possibly Siberia.

NAWS has an interest in the geese beyond that of wildlife management. The birds can pose a potential problem, known as bird air strike hazard, or BASH.

According to Bev Kohfield of the NAWS Environmental Project Office, areas in which ponds are created or dry up must be monitored to ensure that NAWS doesn't inadvertently create a situation that brings the birds closer to the NAWS airfield or flight paths. Especially severe at coastal military installations like Point

Mugu, BASH involves careful planning to avoid potential danger to pilots and aircraft.

The China Lake area has seen an increase in many bird species over the past few decades. One reason, says Kohfield, is that areas farther north, such as Owens Lake, have less water than in the past. Another, according to former China Lake chemist Don Moore, is that we have created better habitats for the birds through irrigation and ornamental planting in residential areas, as well as the wastewater ponds.

Moore, along with Carl Heller, brought the Audubon Society "Christmas Bird Count" to the China Lake area 39 years ago. This activity takes place simultaneously in 1,600 different locations throughout North and Central America each year; volunteers look for bird species in a 15-mile-diameter area from sunup to sundown on a single day. In 1953, about 30 species were counted at China Lake, and the number has gradually increased; this year 87 species were spotted.

## Cooperative pact with private firm focuses on optical surface scattering

By Cliff Lawson  
Technical Information Department

**S**ome 20 years after venturing into an arcane subfield of optical theory, Merle Elson, a physicist in the Research Department, has found his early efforts coming back to haunt him—with very satisfactory results. Elson's early 1970s research into a theory that would take into account scattering of light from multilayered optical surfaces is now the subject of a licensing agreement with Optical Coating Laboratory, Incorporated. OCLI, the world's largest independent manufacturer of thin-film coated optical components for government and commercial use, is using Elson's approach to include the potential effects of scattered light in the design of optical components, systems and devices.

The phenomenon of scattering caused by surface roughness is familiar to anyone who has looked through a pair of scratched sunglasses or a pitted windshield. These are everyday analogs to the problems encountered with eye protection used against lasers and with missile domes used in electro-optically guided missiles. Surface imperfections at the interfaces of optical components will nearly always degrade total system performance.

This phenomenon is important in today's high-tech optical devices that employ thin-film coatings on optical components. These coatings, containing one to many hundreds of layers, serve to decrease absorption or act as filters that will pass only certain wavelengths of electromagnetic radiation. Since surface scattering at each layer

Please see **AGREEMENT**, Page 8

## RAdm. Boecker here Feb. 9

**R**ear Admiral Donald V. Boecker, Vice Commander, Naval Air Systems Command, will be aboard the Naval Air Weapons Station China Lake on Tuesday, Feb. 9 to heighten awareness and enhance motivation about safety and health.

All China Lakers are invited to attend a briefing by RAdm. Boecker at the Station Theater from 1 to 2:30 p.m. that day.

He will be discussing safety and health in three major areas: occupational safety and health; aviation safety; and systems safety. Specific topics that will be addressed include: process improvement, mishap reporting, causes of failure and an overview of NAWAIR mishaps. RAdm. Boecker will also share NAWAIR's expectations in regards to safety and health aboard NAWS China Lake.

Supervisors are highly encouraged to attend this safety and health briefing. Attendance at this briefing will serve to meet annual safety training refresher requirements for supervisors. Departments will be given direction for administering the circulation of attendance rosters to appropriate supervisors for training documentation. Departments must forward completed rosters to the Safety Office.

For more information, contact the Safety Office at 939-2315 or 939-2314.

### Sexual harassment statement

RAdm. William E. Newman presents NAWCWPNS' policy

2

### Black History Month

TVIS broadcasts 'Eyes on the Prize' series over FOTS

10

### National Prayer Luncheon

Annual prayer event set Feb. 4 at All Faith Chapel

15

### Bill Porter reflects and predicts

Former TD/deputy commander talks about his career and NAWCWPNS' future

6





## Weather

	Jan. 13-19			
Wed	Max. 48	Min. 35	Gusts 7	Humidity 93-81%
Thurs	60	43	21	81-36%
Fri	51	36	6	—
Sat	53	36	4	—
Sun	54	47	24	—
Mon	55	43	7	—
Tues	62	32	5	91-36%
	Jan. 20-26			
Wed	60	34	4	89-56%
Thurs	64	33	5	87-48%
Fri	77	36	18	89-30%
Sat	64	33	10	—
Sun	64	27	7	—
Mon	66	30	5	80-25%
Tues	77	31	5	77-20%



## China Lake Calendar

### Thursday, Feb. 4

• National Prayer Luncheon, 11:30 a.m., East Wing of the All Faith Chapel

### Saturday, Feb. 6

• It's Right in Ridgecrest, featuring retirement planning information from NAWCWPNS, 10 a.m. to 4 p.m. Kerr McGee Center

### Tuesday, Feb. 9

• RADM. D.V. Boecker's briefing, 1 p.m., Station Theatre

### Monday, Feb. 15

• Deadline for Mini-IRIS abstracts

### Saturday, Feb. 20

• MWR Sweetheart Dinner/Dance, 8 p.m., Seafarer Club

### Upcoming events

• Bluejacket Dinner, March 26

## The Commanding Officer's Desktop



*The Commanding Officer's Desktop is a forum for China Lakers who have questions of broad interest. It is not the intent of this column to circumvent the normal chain of command. Questions should be mailed to "CO's Desktop," C/O Code C08033, NAWC, China Lake.*

### Question

Dear sir, my division secretary just asked me for phone chits for two long-distance calls totalling 82 cents. Digging out this information, filling out the forms and taking them to my branch head to sign required about eight minutes (that's \$3.55 at my hourly rate). Had I done this at the time I made the calls, the process might have taken half the time (\$1.78), still more than twice the total of the calls. I don't know how much additional time this paperwork takes my branch head, division secretary and whoever else handles the chits, but the system is clearly not cost-effective. Perhaps an occasional well-publicized random audit of phone bills would better avoid telephone abuses. I bet it would be a heck of a lot cheaper.

### Answer

This activity has the responsibility of not only certifying that telephone invoices are correct but also that all billed calls were necessary and in the interest of the government. The government telephone system represents resources, and its use must be managed just as any other resource. Guidelines are published in the Standards of Conduct instruction, the NAVCOMPT Manual and GSA Regulations (for FTS2000).

To accomplish this, the China Lake Telecommunications Branch (Code C6314) verifies invoices and submits the call details to users for review and certification that all calls were official. Completing a toll chit or log at the time the call is placed meets this requirement and makes the task of verifying the monthly bill an easier process. This information can be recorded while waiting for the call to go through.

Audits of telephone bills are conducted on a routine basis. However, without some documentation by the user, there is no way to determine if calls appearing on the monthly bills are official. Planned, announced audits would defeat the purpose of deterring misuse.

## NAWCWPNS Commander announces Division's sexual harassment policy statement

*(Editor's note: Following is the Naval Air Warfare Center Weapons Division Policy Statement on Sexual Harassment by RADM. W. E. Newman, NAWCWPNS Commander.)*

"The Naval Air Warfare Center Weapons Division is the Navy's Center of excellence for full-spectrum research, development, test, evaluation and in-service engineering for weapon systems associated with air warfare (except antisubmarine warfare systems), missiles and missile subsystems, aircraft weapons integration and assigned airborne electronic warfare systems, and to maintain and operate the air, land and sea Naval Western Test Range Complex.

"We pride ourselves in the belief that everyone is entitled to be judged on individual merit and to be treated with dignity and respect. We are committed to establishing an environment free from discrimination that enables men and women in the Department of the Navy to work together and reach their full potential.

"Sexual harassment is a form of sex discrimination which must be eliminated from the Department of the Navy. It destroys the atmosphere of mutual trust and respect on which our profession depends, and it seriously affects our ability to accomplish our mission. Sexual harassment is verbal or physical behavior in the work environment that is unwelcome and is sexual in nature. It can include a wide variety of behaviors, such as sexual teasing and telling lewd jokes in the

Please see **POLICY**, Page 11

## Pages From The Past

January 21 & 28, 1983

Navy Lieutenant Stu Witt, an F/A-18 project officer, delivered the second Hornet to NWC. . . James Egbert, of the Range Department, completed 40 years of federal service. . . Ridgecrest and China Lake teamed up for the anti-litter Project Community Pride, drawing 637 volunteers to clean up their community. . . NASA sent a 50,000 pound drop test vehicle here to test a parachute recovery system.

January 19 & 26, 1973

Jo Anne Hellman of the NWC Fuze Department is one of eight women in the U.S. selected for the Navy's first flight training program for women. . . Center Fire Chief J. R. Brust was honored for 30 years of federal service. . . Propane gas shipped from Alberta, Canada, headed off a threatened heat shortage at NWC. . . RADM. Henry Suerstedt, NWC Commander, told the Kern County Business Outlook audience about China Lake's impact on the region.

Jan. 25 & Feb. 1, 1963

Chaplain J.A. Costa will become the second Catholic chaplain to serve at China Lake since 1943 when he reports in March. . . NOTS Astronomer Bill White wrote a first-hand article about piloting a balloon to 82,000 feet. . . Cdr. Harry O'Connor relieved Cdr. W.A. Schroeder as commanding officer of VX-5. . . W.J. Shortt decides to retire as principal at Burroughs High when the school year ends. . . The Rocketeer moved to new quarters, 50 King Street.

January 21 & 28, 1953

Commander M.M. Cain, former China Lake security officer, will relieve Cdr. A.S. Goodfellow as OIC at the NOTS Pasadena Annex. . . LCdr. W.L. Sloan is the new commanding officer of enlisted personnel. . . Earl Murray, superintendent of schools, hosted a tour of the new Richmond School for education and Navy officials.

The Harry James Orchestra drew more than 3,000 people to a Polio March of Dimes Fund raiser. . . JoAnn Cocagne, a Personnel Department driver, won a Navy Safe Driver Award.

## Kernville celebrates Whiskey Flat Days February 12-15

During Feb. 12-15, people in Kernville will turn back the clock to relive the gold rush days of the 1880s as they celebrate Whiskey Flat Days in Kernville.

When a chunk of gold, reputed to weigh 40 ounces, was found in the Kern River bed, the Kern County gold rush

began. With the influx of miners, early entrepreneur Adam Hamilton recognized a business opportunity and opened his saloon with two whiskey barrels and a plank. As Whiskey Flat grew, church women demanded a new name and the settlement became Kernville.

Some of the activities during the four

fun-filled days will be a grand parade, a Wild West Rodeo, a stage production; guided mine tours, a small tractor race, costume contest, gunfighters, whiskerino contest, frog races, epitaph contest, puppet show, food and craft booths, a carnival, petting zoo, an Alpha Gyro, small train rides, riding the whale, pony rides,

and other interesting and exciting events designed for the occasion.

For a complete list of activities, dates and times, contact the Kernville Chamber of Commerce (619) 376-2629, (619) 376-4371, fax (619) 376-4371, or write them at P.O. Box 397, Kernville, CA 93238-0397.

## The Hambro Quartet of Pianos makes second appearance at China Lake

The Hambro Quartet of Pianos will perform Monday, Feb. 8, at 7:30 p.m. at the Naval Air Weapons Station Theatre. The four-piano ensemble has performed throughout the world.

This performance is a return engagement, having performed for the IWV Concert Association in 1984.

Admission is by season ticket or single-event ticket. Season tickets are avail-

able at a reduced price and may be arranged by telephoning (619) 375-5600.

Single event tickets may be purchased in Ridgecrest at the Maturango Museum,

Richer's Music and the Village Bookshelf. Tickets will be available at the door if the concert is not sold out. The theatre box office opens at 4:45 p.m.; doors open for seating at 7.

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HELP WANTED.....	10
CHURCHES.....	12
SERVICES/SCHOOLS.....	15
RENTALS.....	20
REAL ESTATE.....	25
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AUTOMOTIVE.....	35
MISC. FOR SALE.....	40
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DEADLINE FOR ALL CLASSIFIED LINE ADS IS 4:30 P.M. THE TUESDAY BEFORE PUBLICATION

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(0408)  
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2BR APT - G/D, D/W, inside laundry, \$350/mo. & sec. dep. 375-7049. (0128)

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### 35 AUTOMOTIVE

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## COMMUNITY EVENTS

Art film, discussion, coffee, tea and goodies will highlight the Art Rock Cafe Film Night at the Maturango Museum Jan. 29 at 7:30 p.m. Ruth Amster will lead a discussion on the art film "Cezanne." Art Rock Cafe Film Night will be held once a month at the museum. A donation of \$5 is requested to cover costs.

####

Volunteers are needed for English as a Second Language training. Four tutoring training classes are being held for volunteers helping people who use English as a secondary language. Training sessions are from 6 to 9 p.m. Friday, Jan. 29; 9 a.m. to 1:30 p.m. Saturday, Jan. 30; 6 to 9 p.m. Friday, Feb. 5; and from 9 a.m. to 1:30 p.m. Saturday, Feb. 6. Training will take place at the Literacy Center, 815 Bowen Street, aboard the Naval Air Weapons Station China Lake. Don't forget to bring a sack lunch for the Saturday sessions. For more information, call Nancy Roy at 377-4593 or leave a message at 446-0958.

####

Family Day Care Management Training, Early Childhood Development 89DC will be offered by Community Connection for Child Care from 6:40 to 9:30 p.m. on Mondays from Feb. 1 through March 15 for the first session, and April 5 through May 17 for the second session. The six-week class will be held at the Community Connection for Child Care Office at 237 D West Ridgecrest Blvd. Cost is \$10 for one unit of credit. Registration will take place during the first meeting for each session. The class, geared for child care providers, will cover professionalism, parent/provider relationships, record keeping, taxes, child abuse reporting, nutrition, safety, provider stress and so forth. Learn more about the class by calling CCCC at 375-3234.

####

Clogging, a form of Appalachian tap dancing, is now being taught on Mondays at the Naval Air Weapons Station China Lake Gymnasium Annex (east of the gym; entrance at rear). A beginners class is held from 7:30 to 8:30 p.m., fol-

lowed by an intermediate class from 8:30 to 9:30 p.m. Class instructor is Marv Sass. After Feb. 1, no new students will be accepted. Potential cloggers will have to wait for a new class to start. For information about costs and dancing apparel, call Shirli at 446-5680, Mick at 371-1959 or Margaret at 446-6165.

####

Moose Peterson, a well-known wildlife research photographer from Santa Barbara, will present the Maturango Museum's February Saturday Adventure on Feb. 13. "California's Treasured Wildlife" starts at 2 p.m. at the museum. Attendees will see the many different species of animals that live in California, their struggle for existence and their future in the state.

####

Drawings in graphite, charcoal and pastels by Bay Area artist Mary Case Dekker will be on view at the Maturango Museum from Feb. 6 to March 3. A preview reception will be held Feb. 5 from 7 to 9 p.m., with a presentation given by Dekker, who has received several awards in both painting and sculpture, including the top award in a Figure Drawing Competition at the Mendocino Art Center. Admission to the museum is \$1 for adults and 50 cents for children. There is no fee for museum members.

####

Expo '93, an opportunity for the public to meet representatives from various

businesses throughout the Indian Wells Valley, will take place from 4 to 8 p.m. at the Carriage Inn Wednesday, Feb. 10. Defense contractors and representatives from the utility companies, retail businesses and service industries will be on hand to answer questions from the public. Door prize drawings will be held throughout the evening and a no-host bar will be available. This event is sponsored by the Public Relations Committee of the Ridgecrest Chamber of Commerce.

####

UCLA Extension, adjacent to the UCLA campus, is gearing up for its spring quarter. Items being offered include a variety of defense-related engineering, Total Quality Management and optical engineering short courses. For a brochure detailing these courses, call (310) 825-1047, FAX (310) 206-2815 or write UCLA Extension, Engineering Short Courses, 10995 LeConte Ave., Ste. 542, Los Angeles, CA 90024.

####

In an effort to promote children in the local community, enhance their self-esteem and involve them creatively, the Altrusa Club of Indian Wells Valley is sponsoring the Missoula Children's Theatre Feb. 22-27. Auditions start at 4 p.m. on Monday, Feb. 22, in the Social Hall of the United Methodist Church of Ridgecrest, 639 N. Norma Street. Auditions will take at least two hours. Rehearsals will be held the week of Feb. 22.

## Serving the community

# Lt. Hatley judges mock congressional hearings

By Peggy Shoaf  
Staff Writer

Giving something back to the community which he serves is important to Lt. Rodney J. Hatley, and serving as a judge in the 21st Congressional District Hearings on "We the People... The Citizen and the Constitution" is one way he can do that, noted the staff judge advocate of the Naval Air Weapons Station China Lake.

The hearings, held at California State University Bakersfield, Dec. 9, represented a culmination of an intense six-week "We the People" instructional program designed to foster a fundamental understanding of the Constitution and Bill of Rights and the responsibilities of citizenship.

The program is sponsored by the Kern County Superintendent of Schools and Congressman Bill Thomas of the 21st Congressional District. This was the second year Lt. Hatley was a member of the mock Congressional committee.

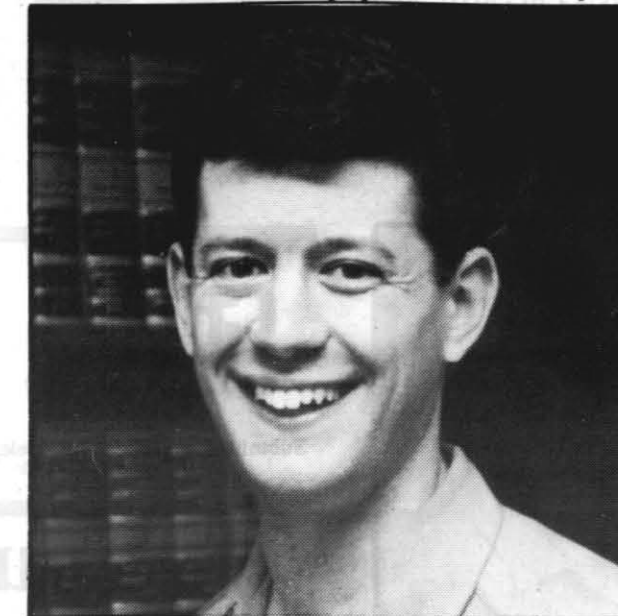
"It's lots of fun," Lt. Hatley said. "Some of the students are very, very bright, while others are visibly nervous. It's interesting watching them show what they have learned."

Lt. Hatley noted 11th and 12th grade students play the role of "experts," testifying before "Congressional committees" on six different topics, ranging from "What did the founders learn about rights from history and their own experiences?" to "Who should be responsible for preserving and extending our heritage of individual rights?" Other topics were "How was the Bill of Rights

created?" "How were the protections of the Bill of Rights expanded?" and "What rights are protected by the First Amendment?" Lt. Hatley was on the committee that heard students discuss "What rights are protected by the Procedural Due Process of Law?"

Teams consisted of three to six members. The committee asked the team to answer one of the three questions given at the beginning of the instructional program. The team had four minutes to present its testimony. The committee then asked a variety of follow-up questions.

While the students were prepared for the main ques-



Lt. Rodney J. Hatley

tion, Lt. Hatley noted answers to the follow-up questions were unrehearsed. "It's one thing to read the material and memorize what it says, but it's another thing to show you really understand what you read," Lt. Hatley said. "We got to see how the students thought on their feet."

Lt. Hatley added, "I think this program is right on the money. It fosters a real understanding about what this (the Constitution) is all about. It is an invaluable experience for the students. If nothing else, it serves as a way for these students to see what rights they enjoy as citizens that the rest of the world doesn't have."

Students with the highest points will go on to compete in state hearings in Sacramento. Winners there will go to national competition.

Competing in this year's competition were Bakersfield, Desert, East Bakersfield, Foothill, Highland, Kern Valley, North, South, Taft, Tehachapi and West high schools.

"I know sometimes we fear for the future," Lt. Hatley said. "People get a little pessimistic and criticize the education our students are receiving in elementary and high schools. But I would say, based on what I could see from these students, that we probably aren't in a bad shape at all. These kids are motivated and they are learning what this society is all about. I have confidence some of them will go on to law school, while others will get involved in the government at some point. I have every confidence that these students came away from this experience with a fuller understanding and appreciation of the rights all American citizens enjoy and, consequently, the foundation with which to be leaders in the fight to protect those freedoms."

## Women in military saluted

Arlington, Va.—The Defense Commissary Agency has announced a "Salute to Women in the Military" sales promotion throughout the commissary system during the month of February.

Food industry sponsors will give commissary patrons special savings ranging from 15 to 38 percent on 40 separate products during the cause campaign.

As a cause campaign, participating manufacturers donate money to the Women in Military Service for America Memorial Foundation for each case of product sold. The foundation, a nonprofit organization authorized by public law in 1986, will use the money to help build the Women in Military Service Memorial to honor the 1.8 million women who are serving, or have served, in the U.S. armed forces since the American Revolution. The memorial will be built at the gateway to Arlington National Cemetery in the nation's capital.

The Women in Military Service Memorial also wants servicewomen, including veterans, to send information about themselves for inclusion in a computerized register which will be part of the Memorial.

Registration forms will be available in commissaries in February, or at any time by calling toll-free 1-800-ISALUTE (472-5883) or writing to WIMSA, Dept. 560, Washington, D.C. 20042-0560.

The C. Lloyd Johnson Company of Norfolk, Va. is the primary organizer of the sale. Manufacturers participating are First Brands, Kal Kan, M & M Mars, Pet, Uncle Ben's, Best Foods, Muellers, Dial, Kikkoman, Vlasic, Campbells and Mrs. Paul.



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# VX-5 honors three exceptional sailors at quarters

At quarters Jan. 11, Air Test and Evaluation Squadron Five (VX-5) Commanding Officer, Capt. Garth A. Van Sickle, presented a number of awards and citations.

Lt. John E. Rose received an Air Medal for achievement as an F/A-18 pilot flying against Iraqi forces during Desert Storm while attached to Strike Fighter Squadron 87. Lt. Rose, according to the citation, "expertly planned, coordinated and executed a flawless attack on the Az Zubayr gas and oil separation plant. Despite heavy enemy fire and thick smoke that greatly reduced visibility, he scored a direct hit on the industrial complex with a guided bomb."



Lt. John E. Rose

While departing enemy territory, Rose was ordered to attack a surface-to-air missile site, which required real-time organization and planning and was completed with total success.

A Navy Commendation Medal was presented to YNC Joyce Van Horn for service with Patrol Squadron Eight from May 1989 to October 1992. "YNC Van Horn's impressive managerial skills, aggressive leadership and relentless drive for perfection," read the citation, "resulted in a grade of 'outstanding' during the squadron's last two command inspections. The driving force behind PATRON 8's selection for the commander Naval Air Force, U.S. Atlantic Fleet Silver Anchor and Battle 'E' awards,



YNC Joyce Van Horn

she met the professional standard by which all others were measured."

AE2 Joseph W. Leber Jr. was the recipient of a Navy Achievement Medal for his service with Strike Fighter Squadron 97 from January 1989 to December 1992. The citation notes, "AE2 Leber's personal leadership and uncommon technical skills significantly contributed to the highest aircraft availability in the history of the A-7E. His meticulous attention to detail was instrumental in developing a training program that received grade of 'outstanding' during both the 1991 and 1992 Aircraft Maintenance Evaluations."



AE2 Joseph W. Leber Jr.

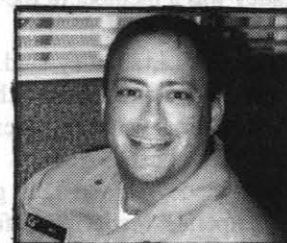


Photo by Terry Pascarella

**MOVING UP**—SH3 Gary Modglin was frocked to second class in late December 1992 by Defense Commissary Agency Officer-in-Charge SHC R.B. Binaoro in a short ceremony at the Commissary.



Submitted by LCDR. T.F. Mele, CHC, USN  
Command Chaplain



## You got to care

PFC Milton Olive, from Chicago, was listed among the casualties of the Vietnam War. He and his buddies huddled near a thicket at Oi An struggling to escape the shrapnel from the Viet Cong grenades.

Suddenly, someone shouted, "Look out. A grenade!"

It landed in front of the group, bounced twice and came to rest at Olive's feet. As his companions scrambled for cover, Olive, without a moment's hesitation, grabbed the grenade and tucked it under his stomach. Hunched over it, he let it explode. He sacrificed his life for his companions.

This simply was not an impulsive act of heroism. PFC Olive had frequently tried to get his bunkmates involved in religious discussions and in going to chapel services. When his companions continued to resist his efforts, Olive exclaimed, "Man, you got to care. Believe it or not, you just got to care!"

We have personnel all over the world who are ready to lay down their lives for the rights and freedom of others because they care. That same spirit of concern must be made evident in our daily lives here at the Naval Air Weapons Station China Lake—concern for one another's physical and spiritual well-being.

"Man, you got to care. Believe it or not, you just got to care!"

## All Faith Chapel Services

### Protestant

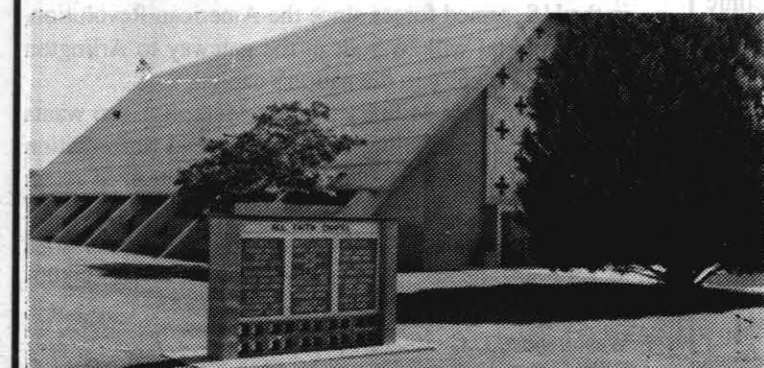
Sunday Worship Service, East Wing 8:00 a.m.  
Sunday Worship Service, Main Chapel 10:30 a.m.  
Sunday School, 1008-10 Blandy & 1903-05 Mitscher 9:00 a.m.  
Bible Study (East Wing), Wednesday (September thru June) 11:30 a.m.  
Men's Prayer Breakfast, East Wing, Thursday 6:30 a.m.  
Officers' Christian Fellowship/Christian Military Fellowships, East Wing, Thursday 7:00 p.m.

### Jewish (446-4152 Messages)

Weekly Services, Friday, East Wing October through June 7:30 p.m.  
Hebrew Classes, Saturday, 1902 Dobb 2-5 p.m.  
Adult Education, Saturday, 1902 Dobb 10 a.m. - noon  
September through June  
Religious School, Sunday, 1902 Dobb 9:30 a.m.-12:30 p.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, Sunday (September thru May) 10:02 Dobb, 1002 Blandy, 1008-10 Blandy & 1903-05 Mitscher 10:15 a.m.  
Adult Education Classes, Thursdays (September - May) 7:00 - 8:00 p.m.  
St. Ann's School Library 8:15 - 9:45 p.m.  
**Islamic**  
Jumaa Prayer, Friday (1002 Blandy) 12 noon



Chaplain T.F. Mele, LCDR, CHC, USN  
Chaplain G. L. Goodman, LT, CHC, USNR  
BatSheva Gluckman, Student Rabbi  
Office Hours: Monday thru Friday, 0730 - 1630  
Phone 939-3506, 939-2773 and 939-2873

# This check includes 3.7 percent pay increase for civil servants

## 1993 Pay Scales

DA/DS Scale				
INCR	A	1	2	3
1	11903	18340	27789	33623
2	12228	18840	28389	34443
3	12553	19340	28989	35263
4	12878	19840	29589	36083
5	13203	20340	30189	36903
6	13528	20840	30789	37723
7	13853	21340	31389	38543
8	14178	21840	31989	39363
9	14503	22340	32589	40183
10	14828	22840	33189	41003
11	15153	23340	33789	41823
12	15478	23840	34389	42643
13	15803	24340	34989	43463
14	16128	24840	35589	44283
15	16453	25340	36189	45103
16	16778	25840	36789	45923
17	17103	26340	37389	46743
18	17428	26840	37989	47563
19	17753	27340	38589	48383
20	18078	27840	39189	49203
21	18403	28340	39789	50023
22	18728	28840	40389	50843
23	19053	29340	40989	51663
24	19378	29840	41589	52483
25	19703	30340		
26	20028	30840		
27	20353	31340		
28	20678	31840		
29	21003	32340		
30	21307	32710		

DT Scale				
INCR	A	1	2	3
1	11903	18340	25159	33623
2	12228	18790	25769	34443
3	12553	19240	26379	35263
4	12878	19690	26989	36083
5	13203	20140	27599	36903
6	13528	20590	28209	37723
7	13853	21040	28819	38543
8	14178	21490	29429	39363
9	14503	21940	30039	40183
10	14828	22390	30649	41003
11	15153	22840	31259	41823
12	15478	23290	31869	42643
13	15803	23740	32479	43463
14	16128	24190	33089	44283
15	16453	24640	33699	45103
16	16778	25090	34309	45923
17	17103	25540	34919	46743
18	17428	25990	35529	47563
19	17753	26440	36139	48383
20	18078	26890	36749	49203
21	18403	27340	37359	50023
22	18728	27790	37969	50843
23	19053	28240	38579	51663
24	19378	28690	39189	52483
25	19703	29140	39789	
26	20028	29530		
27	20353			
28	20678			
29	21003			

DG Scale					
INCR	A	1	2	3	4
1	11903	16393	18340	20443	25159
2	12203	16748	18825	20948	25709
3	12503	17103	19310	21453	26259
4	12803	17518	19795	21958	26809
5	13103	17893	20280	22463	27359
6	13403	18268	20765	22968	27909
7	13703	18643	21250	23473	28459
8	14003	19018	21735	23978	29009
9	14303	19393	22220	24483	29559
10	14603	19768	22705	24988	30109
11	14903	20143	23190	25493	30659
12	15203	20518	23675	25998	31209
13	15503	20893	24160	26503	31759
14	15803	21268	24645	27008	32309
15	16103	21643	25130	27513	32859
16	16403	22018	25615	28018	33409
17	16703	22393	26100	28523	33959
18	17003	22768	26585	29028	34509
19	17303	23143	27070	29533	35059
20	17603	23518	27555	30038	35609
21	17903	23893	28040	30543	36159
22	18203		28525	31048	
23	18503		29010	31553	
24	18803		29495	32058	
25	18986		29980	32558	
26			30465		
27			30950		
28			31339		

DP Scale					
INCR	A	1	2	3	4
1	11903	18340	27789	40298	56627
2	12228	18890	28534	41258	57932
3	12553	19440	29279	42218	59237
4	12878	19990	30024	43178	60542
5	13203	20540	30769	44138	61847
6	13528	21090	31514	45098	63152
7	13853	21640	32259	46058	64457
8	14178	22190	33004	47018	65762
9	14503	22740	33749	47978	67067
10	14828	23290	34494	48938	68372
11	15153	23840	35239	49898	69677
12	15478	24390	35984	50858	70982
13	15803	24940	36729	51818	72287
14	16128	25490	37474	52778	73592
15	16453	26040	38219	53738	74897
16	16778	26590	38964	54698	76202
17	17103	27140	39709	55658	77507
18	17428	27690	40454	56618	78812
19	17753	28240	41199	57578	80117
20	18078	28790	41944	58538	81422
21	18403	29340	42689	59498	82727
22	18728	29890	43434	60458	84032
23	19053	30440	44179	61418	85337
24	19378	30990	44924	62378	86642
25	19703	31540	45669		
26	20028	32090	46414		
27	20353	32640	47159		
28	20678	33190	47904		
29	21003	33740	48649		
30	21307	34290	49394		
31	34840				
32	35390				
33	35940				
34	36343				

Note: Wage Grade Scale will be printed when it is available

GS Scale														
Step	GS-1	GS-2	GS-3	GS-4	GS-5	GS-6	GS-7	GS-8	GS-9	GS-10	GS-11	GS-12	GS-13	GS-14
1	11903	13382	14603	16393	18340	20443	22717	25159	27789	30603	33623	40298	47920	56627
2	12300	13701	15090	16939	18951	21124	23474	25998	28715	31623	34744	41641	49517	58515
3	12694	14145	15577	17485	19562	21805	24231	26837	29641	32643	35865	42984	51114	60403
4	13090	14521	16064	18031	20173	22486	24988	27676	30567	33663	36986	44327	52711	62291
5	13487	14993	16551	18577	20784	23167	25745	28515	31493	34683	38107	45670	54308	64179
6	13720	15115	17038	19123	21395	23848	26502	29354	32419	35703	39228	47013	55905	66067
7	14109	15547	17525	19669	22006	24529	27259	30193	33345	36723	40349	48356	57502	67955
8	14503	15979	18012	20215	22617	25210	28016	31032	34271	37743	41470	49699	59099	69843
9	14921	16411	18499	20761	23228	25891	28773	31871	35197	38763	42591	51042	60696	71731
10	14891	16843	18986	21307	23839	26572	29530	32710	36123	39783	43712	52385	62293	73619

### Police Scale (GS Levels)

Step	2	3	4	5	6	7
1	17707	19960	22399	23839	25210	25745
2	18139	20447	22945	24450	25891	26502
3	18571	20934	23491	25061	26572	27259
4	19003	21421	24037	25672	27253	28016
5	19435	21908	24583	26283	27934	28773
6	19867	22395	25129	26894	28615	29530
7	20299	22882	25675	27505	29296	30287
8	20731	23369	26221	28116	29977	31044
9	21163	23856	26767	28727	30658	31801
10	21595	24343	27313	29338	31339	32558

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## Editor's Note

By Barry McDonald  
Editor

### Plan your 'haps' on off-payday weeks

Rear Admiral Donald V. Boecker, Vice Commander, Naval Air Systems Command, will be aboard the Naval Air Weapons Station China Lake on Tuesday, Feb. 9... So begins the story on Page 1 of this issue that discusses the admiral's visit to give an all-hands briefing on safety and health.

That story will be the only one that provides advance publicity on the admiral's visit—11 days from now. And, since the briefing will be conducted on the day we are putting the Feb. 11th issue to bed, what the admiral says won't be reported until the issue of Feb. 25—16 days after the fact.

Ordinarily, unless someone is chomping at the bit waiting for some information, 11 days is a long time to expect folks to remember an event. And in terms of "news," 16 days late falls into the category of "old."

In this particular example, I'm sure the Safety Office will find other means for advance notice of the briefing, and given the subject matter of his address, the admiral's message will be just as relevant on the 25th as it would have been on the 11th. Further, I think I can say with relative certainty that the Number Two man at NAVAIR doesn't plan his calendar around the printing schedules of the newspapers at bases he visits.

Where I'm going with this is the planning of your events—groundbreakings, ribbon cuttings, awards presentations, graduations, special speakers, earthquake preparedness drills, heritage days, challenges, balls, breakfasts, lunches, dinners and so on. If you want timely advance publicity, i.e. the week before, and timely coverage, i.e. the week after, please plan your happenings on nonpayday weeks, i.e. the week *The Rocketeer* doesn't come out.

#### Aside

For all of you who have not yet had a chance to ask Peggy or me what we'll be doing with all our free time now that we only have to put out two papers a month, we'll be working on the next issue and going home at *quitting* time. In addition to that, on flex Fridays, Saturdays, Sundays and holidays we won't be *working*.



**ADOPT-A-DISTRICT**—Kay Farrell (right) and Dallas Allen (center left) of the Environmental Projects Office pass on software to Superintendent of Schools Bruce Auld (left) and Mike McGrath, assistant superintendent for administrative services.

### School District receives loan of old software

Never being an organization to go into an endeavor in a small way, the Naval Air Weapons Station China Lake recently expanded its adopt-a-school efforts to include the entire Sierra Sands School District. Previously Burroughs High School and Richmond Elementary had been Station-sponsored schools.

One of the first benefits the district

received was the loan of a substantial amount of software from the Environmental Projects Office.

Kay Farrell, the office's information systems manager, wanted to find a use for good, but old, versions of software she had updated for the office. Fran Rugg, community liaison, suggested loaning it to the school district.

### AMH1 Forosan ends 22-year career



TID Photo

**CHECKED OUT**—AMH1 Officer Lt. Michelle Williams presents a flag box to AMH1 Ramon Forosan during his retirement ceremony in the Aircraft Intermediate Maintenance Division office Jan. 8. AMH1 Forosan's career saw two tours at NAS Whidbey Island, one each at NAS Kingsville and Beeville, Texas, and Agana, Guam, and a cruise aboard USS Forrestal before landing at China Lake in December 1989. The 22-year Navy veteran's leadership of the Hydraulic Repair Workcenter was credited for the center earning a grade of "outstanding" in aviation maintenance inspections.

### Bluejacket dinner scheduled

Members of the Indian Wells Valley Council of the Navy League will honor the China Lake Bluejacket of the Year with their annual banquet on March 26 at the Seafarer Club. This is the 24th such Navy League award banquet for China Lake enlisted members.

Each year, the local Navy League organization salutes a sailor or Marine as the Bluejacket of the Year. Sailors of the quarter from the Naval Air Weapons Station China Lake, supervisors of the quarter from Air Test and Evaluation Squadron Five (VX-5) and a Marine

Aviation Detachment (MAD) representative vie for this annual honor.

While the award is sponsored by the Navy League, senior enlisted representatives from NAWS, VX-5 and the MAD will interview candidates, review their records and make the actual selection. The selection as Bluejacket of the Year is based on career accomplishments and community involvement.

In coming issues, *The Rocketeer* will profile each of the candidates.

For ticket information, call Larry Smith of the Navy League at 375-7859.



**GOLD TO SILVER**—An off-camera comment was cause for a pause during the pinning ceremony of Ens. John Wood (center) when he was advanced to lieutenant junior grade by NAWS China Lake CO Capt. B.J. Craig (left) and Lt. Bill Bowdish.

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Maxtor, 3 1/2" SCSI hard drives: 120MB, 15ms #7120S; 200MB, 15ms #7213S; 340MB, 15ms #LXT-340S

90MB Pro Bernoulli transportable #S0700475 (dual 90 Pro is #S0700474)  
90MB Bernoulli cartridge tripart #S0700429  
44MB Bernoulli cartridge tripart #S0700377  
Kensington Trackball ADB mouse for Mac SE & Mac II #62360  
dual media drive reads & writes all std IBM 5 1/4" & 3 1/2" floppies #AMP-ATW

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memory, Mac 4ea 4MB SIMM #4MBX8/2x-80  
memory, IBM 1ea 1MB SIMM #1MBX9-70  
memory, IBM 1ea 4MB SIMM #4MBX9-70 (for 16MB, order 4ea of this item)

controller for all Bernoulli drives: Mac ctr #S0700337-Mac-1B; IBM ctr #S0700479  
20MB Bernoulli cartridge tripart #S0700378  
Farallon Connector 8-pin mini DIN #PN308  
250MB IBM internal tape drive #DJ20, 250MB tape #DC2120  
SyQuest 88MB disk cartridge #SQ800 (SyQuest 45MB disk cartridge #SQ400)  
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# Porter: China Lake will survive

By Barry McDonald  
Editor

If he had his "druthers," Bill Porter quipped recently, "we'd still be NOTS or NWC. But with the national and DoD changes we had to change, and as soon as that became apparent, it was important to become a team player in that change—to help preserve the best parts of our way of doing business, yet be open to others' processes."

The recently retired deputy commander for research and development said there are tough choices to be made for the future defense of the country. Much attention will be spent on defining the true missions of the various services.

"Personally, I'm real optimistic that China Lake will survive," he said. "It doesn't make sense to cut across the board, but rather to close some activities and consolidate essential functions. All services are looking at a situation where, for example, they may have had 15 activities, they'll be left with three or four with multi-function missions."

"The Weapons Division is becoming Naval Aviation's West Coast hub. As other activities are closed, some of their functions will need to continue, and I believe some of those functions will come here. I have no inside insight into

BRAC '93 (Base Realignment and Closure Commission proposals for 1993) or BRAC '95, but I think China Lake will make it through them. What's important is to keep the surviving activities at an efficient and viable size, which I think for China Lake is about 5,000 civilians."

Had he not had another job after being Shrike Program manager, Porter said he feels he still would have had a successful career.

"Being involved with Shrike from early concept development," he said, "through development and production, working with Air Force and Navy operational forces and seeing the weapon save some of those forces from SAMs (surface-to-air missiles) was very rewarding."

"As Shrike Program manager, I was able to make decisions then that would now have to go back to Washington and go higher than the Navy for answers," he explained. "We were in a war situation (Vietnam), funding was available and the project had a high priority. It was the ideal environment for weapon development."

Porter came to the then Naval Ordnance Test Station in January 1953 as a

junior professional weapons engineer. By 1957 he was a section head in the Dynamics Branch. He was named head of the Analysis Branch in the Weapons Department in 1962 and took the top Shrike post in 1964.

"After that," he said, "each new job, I felt, would have been the perfect cap for a wonderful career."

Those successive jobs started with assignment as the first HARM (High Speed Anti-Radiation Missile) Program manager. Porter then began moving through the ranks of the Laboratory Directorate, serving as associate department head consecutively for two departments and then department head for two separate departments.

In 1982, after some initial reluctance to leave the lab, Porter became head of the Test and Evaluation Directorate. At his on-Station farewell party, he joked about being dragged down the hall to the T&E office.

"Even with the kidding about leaving heel marks in the hall," he said, after his official farewell party, "the time as T&E director was very rewarding. The cooperation between the services in the T&E community is very good. It's at a level that doesn't exist yet in other areas."

Porter became lab director in 1986, when Gerry Schiefer moved up to technical director. After leading the lab for three rewarding years he was contemplating retirement.

"I figured Schief would be TD for another four or five years," he said, "and I felt fulfilled in what I'd accomplished. So I was surprised to suddenly be technical director, and I immediately put aside any thought of retiring."

He explained that he made a commitment to himself and to then Naval Weapons Center Commander, Capt. Douglas W. Cook, that he would stay for at least two-and-a-half to three years.

"We agreed that we didn't want to both leave at the same time and have a

disconnect in continuity," he stated. "I remember when Adm. Freeman came in as commander at the same time Gil Hollingsworth came in as TD. Having a new commander and a new TD at the same time wasn't good for China Lake. We didn't want that to happen again."

With consolidation and realignment and the standing up of the Naval Air Warfare Center last January, Porter was named deputy commander for research and development for the NAWC Weapons Division.

"The last two-and-a-half years have been the most difficult in my career," he said. "The work in consolidation and mission purification has been strenuous."

He went on to say that last June, for the first time in his career, the stress of the job was beginning to show up off the job. At the same time, Bill and Marilyn Porter were becoming increasingly desirous of spending more time with their children and grandchildren.

"Forty years at China Lake seemed like a nice round number," he said. "So, after discussing it with Admiral Newman and Captain Cook, we set my retirement for the first week in January."

Before explaining his decision to leave, Porter praised RAdm. Newman and Capt. Cook and said it had been a pleasure to work for them.

"We were fortunate to have Admiral Newman during consolidation," he said. "Before making critical decisions, he looks at all sides of an issue, and then sometimes he goes through another cycle of review before making the decision. He provides strong leadership and objective analysis."

"And I've enjoyed working for Captain Cook," he said. "He has a side that doesn't come out in his public image, and that is, he really cares about people. It's been a very satisfying relationship."

About being a "people person" himself, a quality for which Porter was praised repeatedly at both retirement functions, he said he was surprised and pleased that so many people felt that way.

Please see next page

***The important thing is to develop a new way—The NAWC Way.***

—Bill Porter

## SPORTS

### Volunteers being sought

## IWV Youth Baseball league needs managers, coaches and umpires



Indian Wells Valley Youth Baseball is looking for managers, coaches and umpires. Any one interested in volunteering for one or more of these positions should call:

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- Mustang (9 to 10 year olds) — Rick Tamez, 377-4849
- Bronco (11-12 year olds) — Brett Thompson, 377-4956
- Pony (13-14 year olds) — Duke Martin, 375-8585
- Colt/Palomino (15 years of age and older) — Bobby Brown, 375-5009

#### Umpires

Mark Sullivan, 446-7124.

## Cerro Coso College and track club co-sponsor Coyote Chase

On Feb. 6, the Over-the-Hill Track Club and Cerro Coso Community College will co-sponsor the Coyote Chase. This two-mile fun run and walk will be held on dirt trails above the college.

Sign-ups begin at 8 a.m. at Cerro Coso and the race starts at 9 a.m. The registration fee is \$3 per person.

Awards will be presented to the overall male and female winners, first through third place winners in each division and to all finishers 10 and under, whether running or walking.

The race's point of contact is Kathy Martin, 375-6852, and Nancy Webster, 375-5001.

## Track club hosts 5K run/walk

On Saturday, Feb. 20, the Over the Hill Track Club will sponsor its annual President's Day 5K Run/Walk. The race's start and finish will be the rear of the Naval Air Weapons Station China Lake Conference Center (on the corner of Lauritsen and King). Registration will be taken up to 8:30 a.m. the day of the race.

The entry fee is \$10 per person.

The top 20 finishing the race will receive awards, as well as first place male and female winners and the top two cross country teams.

To pre-register, call Robert Vest at 446-3357 after 5 p.m. for an entry form.

## Aguabonita Flyfishers plan class

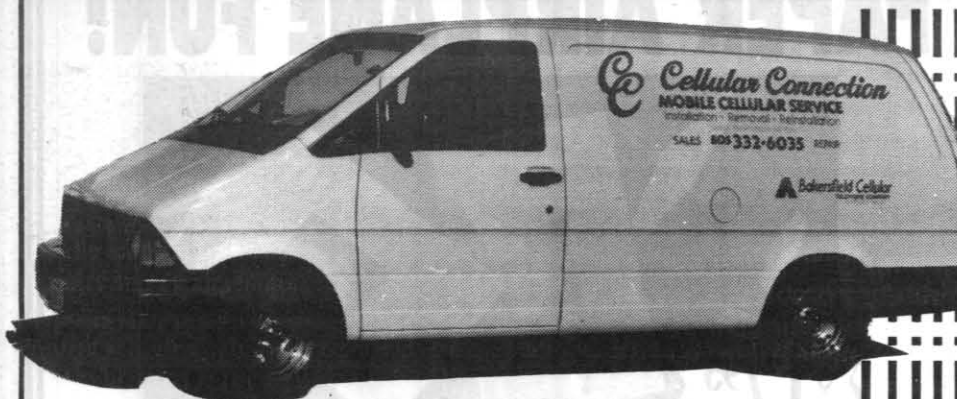
Starting Feb. 4, the Aguabonita Flyfishers are offering a fly tying class to all interested parties. Starting at 7 p.m., the sessions will be held at the Grace Lutheran Church, located on the corner of Norma and Las Flores, Tuesday and Thursday evenings through March.

The first meeting will provide information on class structure, schedule and fees, plus a chance to tie a fly.

Tying tools are available from the club for use during the class and materials will be available for purchase.

If planning to take the class, call 375-5810 or 375-8725

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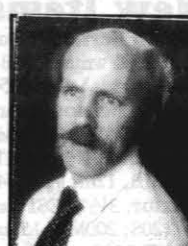
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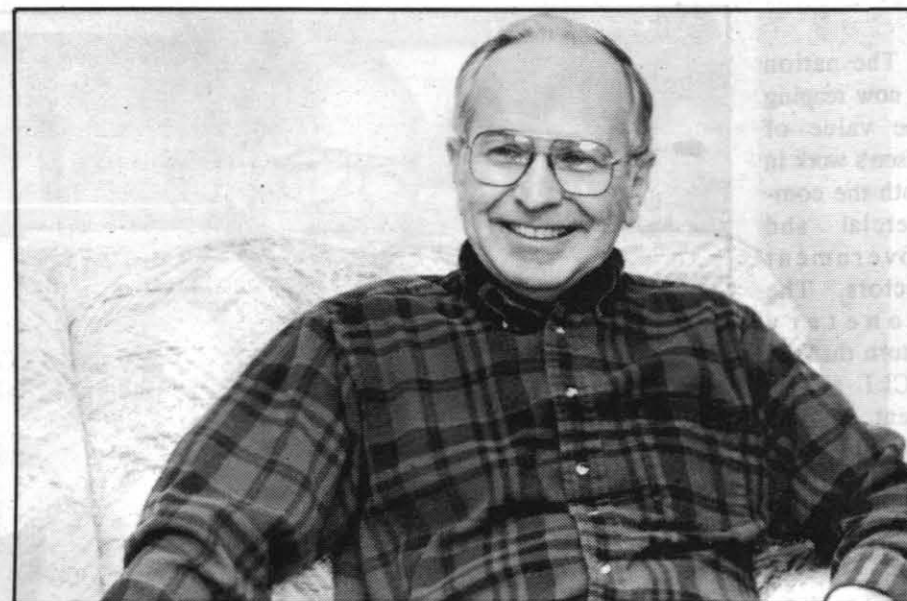
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lettuce & stuff.446-6969  
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Photo by Terry Pascarella

RELAXED—Bill Porter has traded in his tie.

"In junior high and high school I was painfully shy," said the former deputy commander. "I decided I would have to make the effort to get to know people, so I had to start to notice people and be friendly. At times it's still hard for me to do, but I do enjoy getting to know people."

"I'm not the world's greatest technologist or scientist, but I learned how to manage programs and be involved with people. One regret is that after I became TD and got involved in consolidation, I was traveling so much I didn't have time to get out and meet the people doing the work. I think I failed in spending time with people since becoming TD."

Porter feels consolidation, especially within NAWCWPNS has gone very well. "The hardest part has been in the SID (Services and Information Directorate). You have different budget systems and a number of different support functions to consolidate, but I'm confident Dillard (Bullard, SID Director) and his people can pull it together."

Reiterating what he said at his farewell party, Porter said the remaining challenge will be bringing the NAWC Weapons and Aircraft divisions together as a team. "It's going to be hard to make further consolidation a win-win situation," he stated. "We've already consolidated most of the targets work to the West Coast and likewise, bomb racks and launcher work has gone to the East

Coast. But there's strong disagreement on the role of the two divisions in the areas of aircraft weapons systems and electronic warfare. Both of us are concerned about decisions that may impact future workload."

"At times we've been accused of not being 'team players,' but I don't see it as that. It's just that we're not willing to give up what we feel we can do better. The divisions have to come together as a team and establish new ways of doing business together."

Porter said there are many different perceptions about what is meant by "The China Lake Way."

"To some, The China Lake Way means doing development in-house," he said. "That is becoming increasingly difficult to do, given the climate in Headquarters."

Hands on R&D work, he explained, has been a part of The China Lake Way that has drawn competent people to China Lake and helped to make the Station a smart buyer.

"It will be Sterling's (Porter's successor, Sterling Haaland) challenge," he said, "to keep enough of that hands-on work in house to keep competent people and to keep us smart."

Along the vein of continuing weapons work at NAWCWPNS, cooperating with other services on joint projects, is the real secret for survival,

according to Porter. "It is very clear that in the future we will not be allowed to have separate aviation weapon system developments."

"If you look at The China Lake Way as meaning being innovative, doing it first," he said, "that is another part we want to maintain. The China Lake Way is equally important on the support side, as on the technical. Pioneering the demonstration project and the government bankcard system are examples of support innovation. When we combine that with processes that work from other NAWC activities we'll come out with a winning team. Ultimately, the important thing is to develop a new way—The NAWC Way."

Beyond continuing weapons work with other services, Porter feels, NAWCWPNS must bring in work from other sponsors.

"The key is that the work be in our mission area or provide technology that is applicable to Navy needs. We've been doing work on DARPA (Defense Advanced Research Project Agency) and SDIO (Strategic Defense Initiative Office) programs for some time," he said, "and we've already had a number of successful cooperative research and development agreements with private companies. These are the types of things we need to continue and expand."

"And I made a challenge to our people some time ago: If we can develop all these exotic chemicals for ordnance and

propulsion and other defense projects, shouldn't we also be able to develop some materials or techniques that will help clean up the environment. I think we could become the pioneers in the field. The government has to clean up all of the bases that are closing, and I believe China Lake can do research into how to best do that."

With his retirement only a small handful of China Laker old timers—NOTS employees—remains on the job. "There will be only a few left," Porter said about the dwindling population of old timers. "But I started looking into 'succession' to department level a couple of months ago, and the Weapons Division has nothing to fear in terms of future leadership. We have a super set of department heads now, and a long list of people capable of stepping into those positions, if necessary. That's comforting to know."

As far as his personal future, Porter said, he has no desire to do full time defense work. The Porters plan to stay in the area and he might consider work on studies or part time consulting, but nothing full time.

"For now, we want to spend more time with our kids and grandkids," the retiree said. "Marilyn and I may do some short term missionary work for the church, if there's an opportunity, and she has a list of things I've been neglecting around the house than can keep me busy for a long time."

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# AGREEMENT from Page 1

interface can affect the overall performance of the component, some method is needed to characterize and quantify the effects of the scattering during the component and system design stages.

Ring-laser gyros are an example of a device in which surface scattering is a critical element. In the gyro, two light beams travel in opposite directions around a closed, mirrored course. When the device rotates, the phase difference between the two beams shifts slightly in proportion to the amount of rotation. The extraordinarily sensitive device can thus be used in a navigational system—for example, in a missile system—to detect minute changes in course. Scattering from surface roughness on the mirrors can confuse the phase comparisons and drastically decrease system accuracy.

Surface scattering is also important in electro-optic communication systems that use different wavelengths (colors) of light. Multiplexers sort out the different wavelengths with filters that pass only specified wavelengths. Here again, surface scattering from the filters can degrade performance and result in "cross talk." In some systems, as little as one-

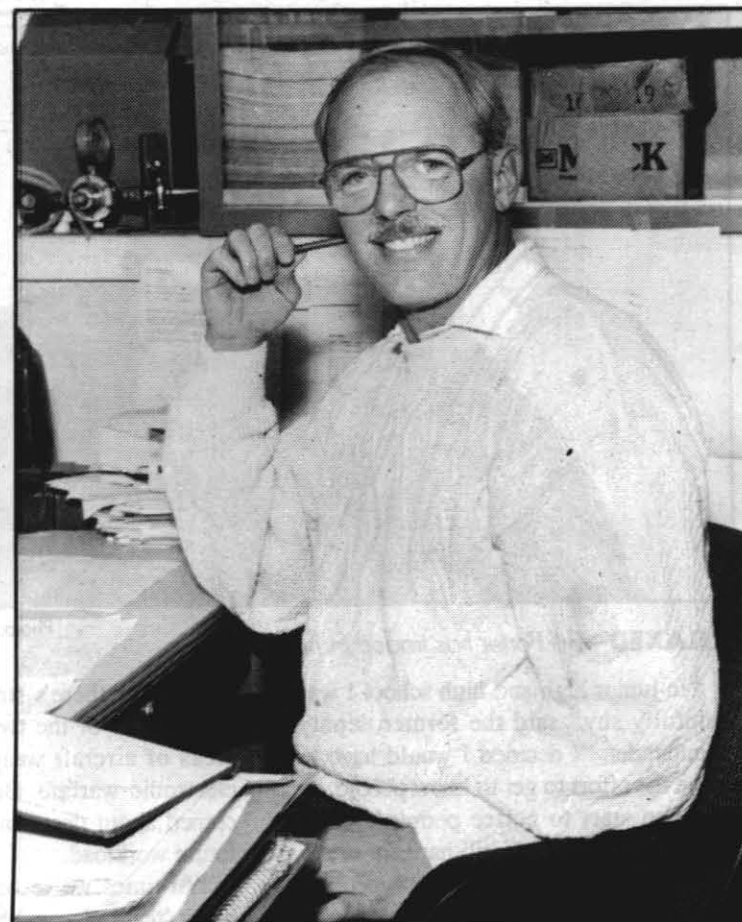
hundredth of one percent of scattering from the optical surface can seriously affect performance.

When Elson began his work on surface roughness scattering, the implications were largely theoretical. Technology had not matured to the point where the variations that he dealt with had significant effects on then-current optical systems. After publishing several papers on the subject and obtaining a patent (Nondestructive Analysis of Multilayer Roughness Correlation), Elson set the work aside and turned his attention to other areas of optical research.

Then in 1991, with help from Elaine Wunderlich, of the Commercial Applications and Transfer Office, and Harvey Gilbert, of the China Lake Office of Counsel, an agreement for the exchange of technical information between OCLI and China Lake was developed. OCLI also obtained a license on Elson's patent. Elson has since worked closely with OCLI to adapt and extend his earlier research efforts in surface-roughness scattering and to implement them in the company's real-world optical-design operations.

The nation is now reaping the value of Elson's work in both the commercial and government sectors. The monetary return that the OCLI agreement has brought to Naval Air Warfare Center Weapons Division is an added benefit for current China Lake work. To Elson, however, there is a more personal value in the OCLI agreement.

"When I did this work in the 70s, the response was 'This is nice but . . . so what?'" he said, "I'm glad to see that something I did years ago is now finally being used."



Merle Elson

Elson's comment underscores the importance of maintaining a strong research capability and thereby providing a foundation on which to build the country's future technological advances.

***'I'm glad to see that something I did years ago is now finally being used.'***

—Merle Elson



## MWR

### Craftech plans for new year

With the start of the new year, staff members of the Morale, Welfare and Recreation Department's Craftech Center are gearing up to provide a variety of classes to China Lakers for 1993.

Classes being offered include hand-beaded earrings, woodshop, porcelain dolls and ceramics. Ceramics classes are being offered during the daytime on pay-day Fridays and in the evenings.

If instructors can be found, Craftech will also offer a leather work class and a sketching class. People interested in teaching either of these classes should

call the Craftech Center at 939-3252.

Other Craftech news include the availability of Valentine and Easter greenware for those who would like to make something special for their loved ones, or even themselves. In addition, a selection of porcelain doll greenware will be on sale at 20 percent off during the month of February.

Craftech also sells discount tickets to a variety of Southern California amusement parks. Save money at Disneyland, including the Disney Two-Day Pass, Knotts Berry Farm, Magic Mountain, Sea World and Universal Studios.

### Enjoy Super Bowl Sunday at China Lake

Members of the Naval Air Warfare Center China Lake can enjoy Super Bowl Sunday at the Barefoot Bar and the Seafarer Club on Jan. 31. Attendees will be able to watch the game on big screen televisions while enjoying assorted finger sandwiches, hot dogs and chili, tortillas and salsa and drink specials.

Don't settle for a small-screen TV, invites Debra Poindexter, publicity chairperson for the Morale, Welfare and Recreation Department. Catch all the action at the Barefoot Bar or the Seafarer Club.

## China Lakers invited to Sweetheart Dance

Members of the Morale, Welfare and Recreation Department are proud to invite everyone 21 years of age or older to their His & Her Sweetheart Dinner/Dance set for Feb. 20 at the Seafarer Club. His price is \$7.95, while her price is \$4 (gratuity is not included). Reservations are required and may be made by calling 939-8658 or 939-8659.

The dinner, which begins at 6 p.m., includes steamship round with au

jus, baked chicken, oven brown potatoes, whipped potatoes, gravy, buttered corn, seasoned green beans, fresh soup, full salad bar, assorted rolls and breads, and a dessert bar.

At 8 p.m., guests will be able to dance to the top 40 hits, played by DJ "Soundwaves."

A complimentary glass of wine or non-alcoholic beverage will be served to all the guests.

However, there will be special cocktail prices all night.

### MWR has variety of skiing equipment for rent

Skiing season is here and the Gear Issue Office has lots of ski equipment to rent for military and DoD personnel.

With a \$20 deposit, military and Department of Defense personnel can rent everything from skis to ski boots to poles. Rental prices range from \$5 to \$10 a day; \$10 to \$22 per weekend; and

\$25 to \$60 for seven days straight.

Appointments for ski fittings, which are required, may be made Monday through Thursday from 8 a.m. to 4 p.m. by calling 939-2334.

Fitting appointments should be made five to seven days in advance of the ski trip.

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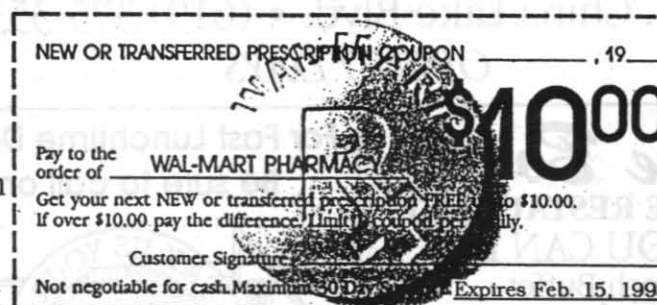
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## Safety Sense

A frequent cause of traffic accidents is following the vehicle ahead too closely. Under most traffic laws, drivers who hit cars from the rear are negligent. The assumption is that they were following too closely and couldn't stop in time.

The time it takes to stop a vehicle depends on many factors—speed, condition of the road, condition of the vehicle and alertness of the driver. Stopping distance can be determined by this formula: reaction + braking distance = total stopping distance. Reaction distance is how far the driver travels while making the decision to move the foot to the brake pedal; this distance varies with speed. Braking distance is how far a vehicle travels once brakes are applied. This distance also varies with speed and type and characteristics of the vehicle.

Most drivers' handbooks outline the average braking distances for various speeds in different environmental conditions. However, many drivers don't read, remember or apply this information when actually driving.

Here are four simple reminders that will help you avoid being involved in a collision with the vehicle ahead:

- Stay alert. Watch for signs from the

## Maintain a safe following distance when driving

driver ahead as to what he intends to do. Is the turn signal on? Are the brake lights on? Is the driver slowing down?

- Stay ahead of the situation. Look beyond the driver ahead to try to foresee situations that may force him/her to act quickly and become a threat to you. Are there marked or unmarked intersections? Are there parked vehicles, pedestrians, cyclists or children playing? The driver in front of you may slam on the brakes to avoid one of these obstacles and you must be ready to respond as well.

- Stay back. Maintain a safe following distance. Allow even more distance in bad weather or when faced with negotiating poor road conditions.

- Start stopping sooner. Apply your brakes the instant you see a hazard developing. However, apply them gradually so you don't make your vehicle skid or make the vehicle behind you run into the back of you if that driver has not maintained a safe following distance.

Although they may not be new to you, think about these simple reminders every time you get behind the wheel of your vehicle. Maintaining a safe following distance is such an easy way to avoid a rear-end collision—practice it.

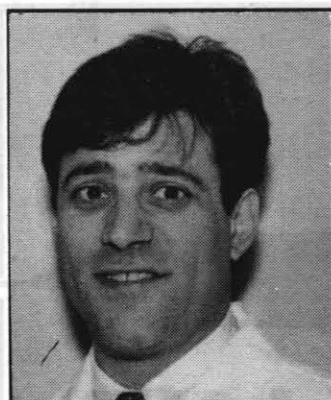


Photo by Terry Pascarella

**DONATED** books by the Indian Wells Valley Humane Society are examined by Elizabeth Shanteleer, the Naval Air Weapons Station China Lake librarian, and Samantha Parsons, a member of the Humane Society. Parsons noted the books, containing entertaining and educational information for children on humane care of animals, were purchased by profits raised with Elks' Bingo. Additional books were donated to the Ridgecrest branch of the Kern County Library.

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## Items can be dropped off at the China Lake Recycling Center

Recyclable materials can be dropped off at the Naval Air Weapons Station China Lake Recycling Center, located in Building 01032 (west of the Michelson Laboratory; see map). During business hours, materials may be dropped off at the south side of the building. After hours or on weekends, materials can be placed in a fenced-in area at the north-west corner of the building. Barrels inside the fence are marked for deposit-

ing various types of recyclable items.

Items accepted by the NAWS Recycling Center include paper products, newspapers, magazines, bound books, cardboard (corrugated and cereal-type, not waxed), brown paper bags, wrapping paper, plastic materials (clear, natural and colored, marked with #1 or #2 on the container bottoms), aluminum cans, container glass and styrofoam "peanuts" (which are then reused).

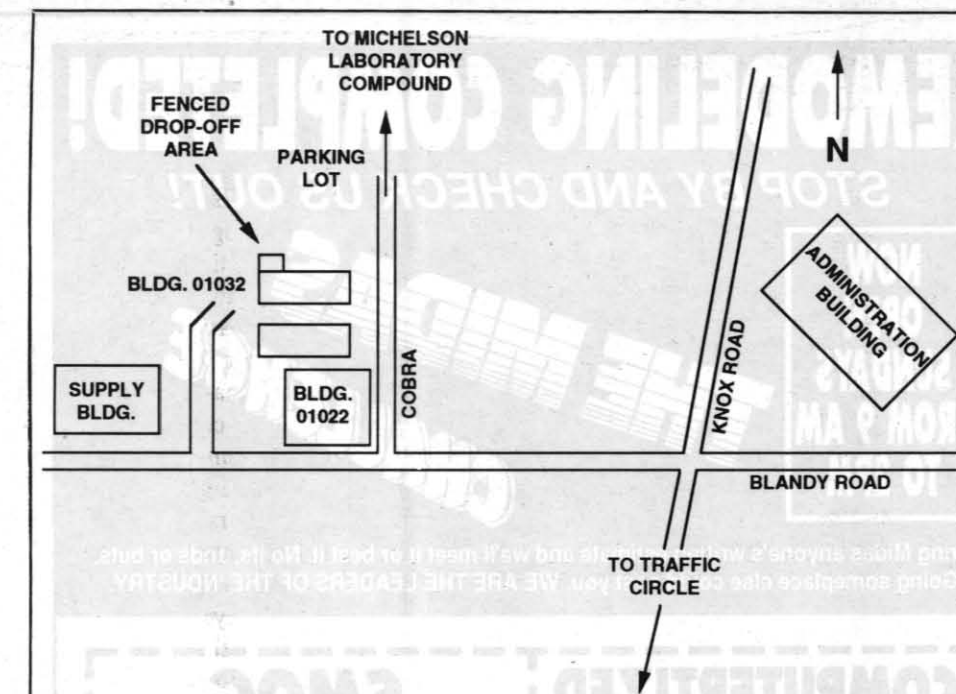
## Defense outplacement registration planned

In an effort to assist employees in securing employment outside the activity with other Department of Defense agencies, non-DoD federal agencies and private industry, DoD has implemented a computerized program called Defense Outplacement Referral System. All current, permanent and temporary, civilian DoD employees and their spouses are eligible to register in DORS.

Registration in DORS is voluntary. Once registered, your name may appear on lists issued by the Officer of Personnel Management to private firms or Federal agencies who requested a list of employable applicants and which are located in geographic areas you will have selected as possible areas where

you would be willing to relocate.

The Human Resources Department at the Naval Air Weapons Station China Lake provides information and registers employees wishing to use this program. Open registration sessions have been scheduled on a weekly basis beginning Feb. 2 from 2 to 4 p.m. at the Human Resources Department, 505 Blandy, Building 2335, Room 101. No appointment is necessary. Just bring an updated SF-171 and a copy of your most recent SF-50 (Notification of Personnel Action). If you have any questions, call Melissa Lytell at 939-3317. Interested military service members may contact Judy Baron, TAMP manager, at 927-1555.



**RECYCLABLE ITEMS** can be dropped off at the NAWS China Lake Recycling Center, Building 01032, just west of the Michelson Laboratory compound.

## Station's water fountains replaced

A precautionary measure, water fountains on the Naval Air Weapons Station China Lake are being replaced by members of the Public Works Department.

Similar makes and models at other locations have proven to contain some lead contamination due to internal sol-

dered piping, noted Lt.j.g. Brian Lewis, coordinator for replacing the fountains. The new water fountains have been certified safe and meet EPA's most stringent standards, Lewis noted.

Any questions regarding this process can be referred to Lt.j.g. Lewis at 939-4481.



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### Black History Month celebrated

## 'Eyes on the Prize' TV series will air on TVIS in February

Black History Month will be celebrated nationally for the 68th time in February. This year's theme, "Afro-American Scholars — Leaders, Activists and Writers," highlights the achievements of Afro-Americans and the roles they have played in shaping American history. In the decades following the Supreme Court's historic 1954 Brown vs. Board of Education decision, the efforts of the southern-based civil rights movement have resulted in significant gains for all Americans.

Beginning with the bus boycott of 1955-56 to the Selma-to-Montgomery march of 1965, American citizens, black and white, of all ages have engaged in nonviolent protest against segregated ways of life. Sit-ins, stand-ins, freedom rides, economic boycotts, marches and other tactics have resulted in the abolition of "Jim Crow" practices of segregated busing, housing, restaurants, restrooms, schools and other public accommodations. These victories were won at a great cost; while the movement was non-violent, it was met with great repulsion and intense violence from those who resisted the transformation.

In celebration of Black History Month and to increase awareness of the civil rights struggle, the entire award winning "Eyes on the Prize" television series will be broadcast on the TVIS system during the month of February. This series highlights the courageous efforts made by American citizens to insure equal rights and access for all Americans regardless of color, sex, religion, handicapping conditions, ethnicity or religious beliefs.

Please consult the TVIS schedule, below, for dates and locations. One half hour has been allowed between tapes to allow for discussion. For additional information contact Ricky A. Parks, Human Resources Department, 939-8128.

### Video Listings

### KNID & TVIS February 1-12

#### KNID

• Monday-Friday, February 1-5  
5:30 p.m.: Navy News  
5:55 p.m.: NAWCWPNS Historical Film: Artificial Insemination at 15,000 feet or How to Seed Clouds  
6:03 p.m.: Highlights of the Orient  
6:32 p.m.: History of the Seabees  
• Monday-Friday, February 8-12  
5:30 p.m.: Navy News  
5:55 p.m.: NAWCWPNS Historical Film: Dune Buggy '73  
6:00 p.m.: Fun Country U.S.A.  
6:26 p.m.: Navy-Marine Corps Team: Steady on Course

#### TVIS

Programs listed below will be available for viewing on Channel 3 in all FOTS-equipped conference rooms throughout the Station. Those without access to such rooms can see the programs at Michelson Laboratory "Little D" conference room. A room will also be made available in the Training Center for each program — the room number will be posted in the lobby.

• Tuesday, Feb. 2  
8:30 a.m.: Eyes on the Prize\*: Awakening 1954-1956  
10 a.m.: Eyes on the Prize: Fighting Back 1957-1962  
11 a.m.: President Clinton's Inauguration Speech  
11:30 a.m.: Wellness: Relaxation video  
1 p.m.: MacAcademy: MS Word 5.0 Tape 1 (Three part series)  
3 p.m.: CCI: Object Orientation and Distributed Systems  
• Thursday, Feb. 4  
8:30 a.m.: Eyes on the Prize: Walk 1962-1966  
10 a.m.: Eyes on the Prize: Ain't Scared of Your Jail 1960-1961  
11 a.m.: President Clinton's Inauguration Speech  
11:30 a.m.: Wellness: Relaxation video  
1 p.m.: MacAcademy: MS Word 5.0 Tape 2 (Three part series)  
3 p.m.: Systems Thinking in Education — Remaining Competitive in the 21st Century  
• Tuesday, Feb. 9  
8:30 a.m.: Eyes on the Prize: Bridge to Freedom 1965  
10 a.m.: Eyes on the Prize: The Time Has Come 1964-1965  
11 a.m.: President Clinton's Inauguration Speech  
11:30 a.m.: Wellness: Relaxation video  
1 p.m.: MacAcademy: MS Word 5.0 Tape 3 (Three part series)  
3 p.m.: CCI: OLTP and Open Systems  
• Thursday, Feb. 11  
8:30 a.m.: Eyes on the Prize: Ain't Gone Shuffle No More  
10 a.m.: Eyes on the Prize: Two Societies 1965-1968  
11:30 a.m.: Wellness: Relaxation Video  
1 p.m.: CCI: Optical Media for Business Systems

\*Eyes on the Prize listings are Black History Month programs.

## People living on Station have new rental rates, denied renter's credit

Information on the adjustment in civilian rental charges for Naval Air Weapons Station China Lake housing has been received from the Southern Division of the Naval Facilities Engineering Command. The new rates are effective March 1.

The shelter and utility rental rates will increase 8.8 percent over the baseline rates established by the rental appraisal conducted in 1990. They reflect the Bureau of Labor Statistics Revised Consumer Price Index adjustment required to bring rates current.

Active duty military personnel assigned to public quarters are not affected by the change.

#### Renter's denied tax credit

Housing says... Individuals living in government quarters aboard the Naval Air Weapons Station China Lake for more than six months during 1992 are not eligible for the Renter's Credit on their 1992 California tax returns.

### 1993 NAWS China Lake Rental Charges

Type	Shelter	Utilities	Total
SOQ (4)	\$1344.00	\$167.70	\$1,511.70
SSQ (3)	807.60	174.00	981.60
SSQ — Saratoga	628.80	150.30	779.10
Sierra (4)	970.80	151.80	1,122.60
Coso (3)	837.30	150.30	987.60
Panamint (4)	750.30	151.80	902.10
Panamint (3)	723.30	150.30	873.60
JOQ — (Rear Terrace) (3)	753.60	150.30	903.90
JOQ — (Front Terrace) (3)	702.60	150.30	852.90
JOQ — 1 bath	591.30	138.90	730.20
JOQ — (Rear Terrace) (2)	619.80	135.00	754.80
JOQ — (Front Terrace) (2)	557.70	135.00	692.70
MOQ (3)	663.30	138.90	802.20
Hill Duplex (3)	568.50	144.30	712.80
Hill Duplex (2)	480.30	115.20	595.50
Joshua (4)	729.90	151.80	881.70
Yucca (3) (Convertible)	667.50	151.80	819.30
Tamarisk (3) (Convertible)	570.90	150.30	721.20
Juniper (3)	565.20	150.30	715.50
Old Duplex (2) (Dining Add)	480.30	115.20	595.50
Old Duplex (2)	446.40	115.20	561.60
Motel Apt (1) With	334.20	108.90	443.10
Motel Apt (0) With	193.80	102.90	296.70
Motel Apt (1) Without	320.70	108.90	429.60
Motel Apt (0) Without	180.30	102.90	283.20

## Telephone Tidbits

By Telephone Service Branch

Don't leave  
phones off  
the hook


Once again we would like to remind telephone users to not leave their telephone off the hook. If a telephone is left off-hook long enough, service to that telephone is cut off. Not only does this cause problems for the user, but it also puts stress on the equipment in the telephone switch to which the telephone is attached. This constant stress will quickly cause failure, requiring replacement of the board at the government's expense.

Inadvertent misplacement of the hand set on the telephone is bound to happen, but if you are intentionally taking the telephone off-hook for a reason, we would like you to call the Telephone Services Branch and let us help you find alternatives to this action.

If you have any questions about this or any other topic related to the telephone service at China Lake, please call the Telephone Services Branch at 939-3451.

## IRS offers tax filing help



The Internal Revenue Service has a free form or publication that covers every possible tax situation, including money laundering. Some forms and publications are available at installation tax assistance offices, libraries, banks and post offices, and at some U.S. embassies and consulates. For copies, call (800) 829-3676 or write to: Internal Revenue Service, Forms Distribution Center, P.O. Box 25866, Richmond, VA 23289.



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Presentations at the Carriage Inn Hotel on China Lake Blvd., in Ridgecrest. The technical sessions are on February 23rd and 24th, 1993. The sessions will focus on cost-effective design solutions for real world design problems.

For reservations and detailed information, Please contact April Mitchell at (310) 598-9645.

### Tuesday, February 23

9:00 - 11:30 **The VHDL Design Challenge**  
VHDL Modeling, Simulation and Design Management Tools from Model Technology, Exemplar Logic, Lewis Systems and ALS.

1:00 - 3:30 **Device Independent FPGA Design**  
Device Independent Place/Route, Optimization and Retargeting tools from Exemplar Logic and NeoCAD.

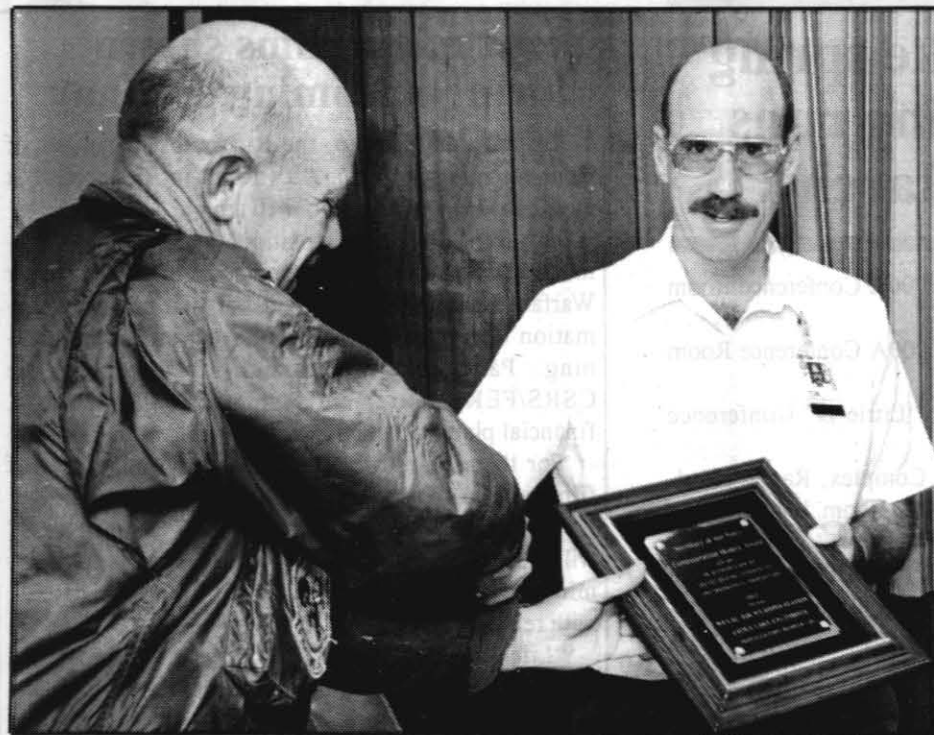
### Wednesday, February 24

9:00 - 11:30 **From Concept to PCB**  
Design Tools from Concept to PCB will be discussed and presented from Advanced Engineering Research, OrCAD and others.

1:00 - 3:30 **Timing Verification**  
Quad Design Tools for resolving timing errors associated with advanced digital designs. Discussed and presented will be Static Timing Verifiers, Transmission Line Calculator and Crosstalk Analysis.

AVCOM EDA





**CONGRATULATIONS** were exchanged by Capt. B.J. Craig, Commanding Officer NAVWS China Lake, and Tom McGill, head of the Environmental Project Office, on the Station being recognized for its efforts in protecting the environment.

### Trenton finds 'green' solution to freeze protection

Trenton, N.J.—In an effort to reduce environmental effects within its test facility, the Propulsion Group, NAW-CAD, Trenton, has procured a "green" solution to freeze protection. Historically, ethylene glycol, considered environmentally hazardous, was used as antifreeze protection in the test wing cooling systems. After extensive

research and analysis, it was determined the "Uni-Guard Freeze-proof Concentrate" from Monsoon Chemical, Inc. was a "drop-in substitute," for ethylene glycol; providing similar protection and not requiring any modifications to the extensive propulsion test systems. This new antifreeze is an odorless, non-toxic liquid that is environmentally safe.

## China Lake receives recognition for special environmental efforts

Extraordinary efforts in environmental protection at China Lake brought a special honor to the Naval Air Weapons Station. Capt. B.J. Craig, NAVS Commanding Officer, passed on an Environmental Quality Award received from the Secretary of the Navy to the Environmental Project Office.

This award is presented every other year to a Navy installation in recognition of significant environmental protection programs. This year, NAVS China Lake was the runner-up installation for efforts conducted in 1990 and 1991.

In the letter to Capt. Craig accompanying the award, Jacqueline E. Schafer, assistant secretary of the Navy (installations and environment) said, "the NAVS benefits from a highly active and innovative Environmental Project Office. I commend your continued outstanding efforts in environmental protection."

Captain Craig presented the award plaque to Tom McGill, head of the Environmental Project Office.

The plaque will be displayed as part of an environmental exhibit at the China Lake Weapons Exhibit Center.

## Renovating lighting can save energy

Renovation of office lighting to provide a healthier and more energy-efficient environment begins with an audit of the existing system. Currently installed fixtures and control devices are identified and evaluated. At the same time, the nature of the work being performed is studied and a profile of the work force is drawn up. Using this information, a lighting consultant makes recommendations for improvement.

**Relocating workstations.** Tasks requiring the same lighting levels can be grouped together, and lighting adjusted accordingly. People needing higher lighting levels should be near windows.

**Reorienting workstations.** If ceiling fixtures or windows create glare or veiling reflections on screens, VDTs or entire workstations can be repositioned. Bright light sources should be to the sides of VDTs.

**Reducing light levels.** If lighting levels are too high, the type of quantity of lamps (bulbs) and/or controls can be changed.

User-adjustable task lights can then be added. The resulting lighting becomes a workable and visually comfortable compromise appropriate for reading and writing tasks and VDT use.



## Straight Talk

By RAdm. George Strohsahl  
Commander, NAWC

In this uncertain world of military downsizing and a stagnant economy, the stability of our jobs is of paramount importance to each of us. At the same time, the leadership of the Naval Aviation System TEAM is trying to find ways to better integrate our workforce along program team lines and the NAWC leadership is trying to find ways to run our business more efficiently and economically through elimination of duplication and unnecessary redundancy. I know, however, many employees fear these efforts may result in a reduction of work at their NAWC site and possibly a loss of jobs.

As the NAWC Commander I recognize this fear, I hear it expressed in questions I am asked as I visit our sites and I see it embodied in the desires of your local leadership to gain an advantageous position in the processes I just mentioned. I can't fix the economy nor the need to downsize the military establishment, but I can ensure that the processes of downsizing within the NAWC are equitable and fair. In fact, you have my pledge that every aspect of our consolidation and mission purification initiatives will be subjected to the closest impartial review that is humanly possible. We are intentionally proceeding at a pace that allows our decisions to be based on substantiated data and fact with as little emotion as possible. Our intent is to provide the best possible support for Naval Aviation, while treating our most valuable asset, our employees, with the utmost of respect, compassion, and meticulously fair and impartial processes.

One issue that keeps coming up is the future location of light test and in-service weapons system support of our tactical aircraft. After careful review of the present arrangement and our future needs, the NAWC Executive Board has confirmed the present allocation of this effort is sound and future aircraft will be supported in a similar manner. Specifically, this means the Aircraft Division at Patuxent River, our aircraft and aircraft systems RDT&E hub with the relocation of the Warminster functions in 1995/6, leads the "front end" work on new tactical aircraft and major upgrades to these aircraft (such as F/A-18E/F) through the completion of developmental testing. Thereafter the leadership shifts to the Weapons Division's designated Weapons Systems Support Activity for that aircraft. This policy to shift the leadership when an aircraft is finally introduced to the fleet is driven by the continuing activity in the integration of new and additional weapons on these aircraft and the proximity of the weapons development and testing organizations as well as the weapons testing ranges. Support for non-weapons systems equipment as well as the basic aircraft remains in the Aircraft Division for the life of that aircraft in the fleet. Although one division or the other has the lead of the Systems Engineering Support Team for that aircraft, depending on the point of time in its life cycle, many employees at several sites in both divisions remain very involved in providing unique and necessary support to that program as members of the larger program team.

Many people, wishing to "lock-in" a long term commitment, want to see confirmation the AX (or A/FX) program will be handled in this way. At the present time it is being supported exactly this way. The AX program manager is receiving support from the NAWC at several sites with an Aircraft Division lead. However, the uncertain joint service nature of this program, not to mention lack of firm knowledge of exactly what capabilities that aircraft will possess, precludes definitive assignment of sites for future testing and in-service support at this time.

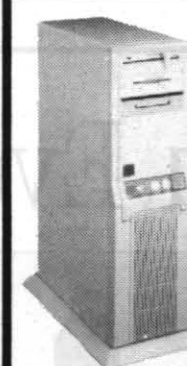
We are in the process of capturing this policy in formal documentation for each affected tactical aircraft program. Until the paperwork catches up, it is hoped this information will be helpful in providing all hands with the intent of your NAWC Executive Board. A future "Straight Talk" article will go into greater detail on the processes of technical team integration of the NAWC into the NAVAIR/PEOP program management team.

### POLICY from Page 2

workplace, displaying sexually suggestive pictures or requesting sexual favors in connection with a job-related threat or promise.

"Leadership is the key to eliminating sexual harassment. All commanders and supervisors, military and civilian, must take an active role in recognizing and eliminating sexual harassment throughout the work environment. Individuals who commit sexual harassment or who take reprisals against those who report it will be disciplined appropriately. There must be no doubt that we do not condone and will not allow sexual harassment anywhere in the Department of the Navy.

"We task everyone on our Navy-Marine Corps Team to help eliminate sexual harassment. Evaluate your own behavior. Intervene when you see inappropriate behavior around you. If you are subjected to sexual harassment, report it promptly so it can be stopped. By working together, we can create a Department of the Navy free from any form of discrimination. That is today's goal and must be tomorrow's reality."

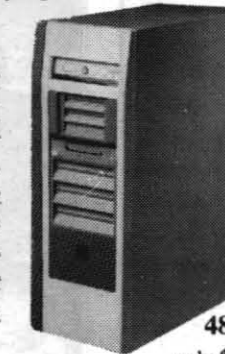


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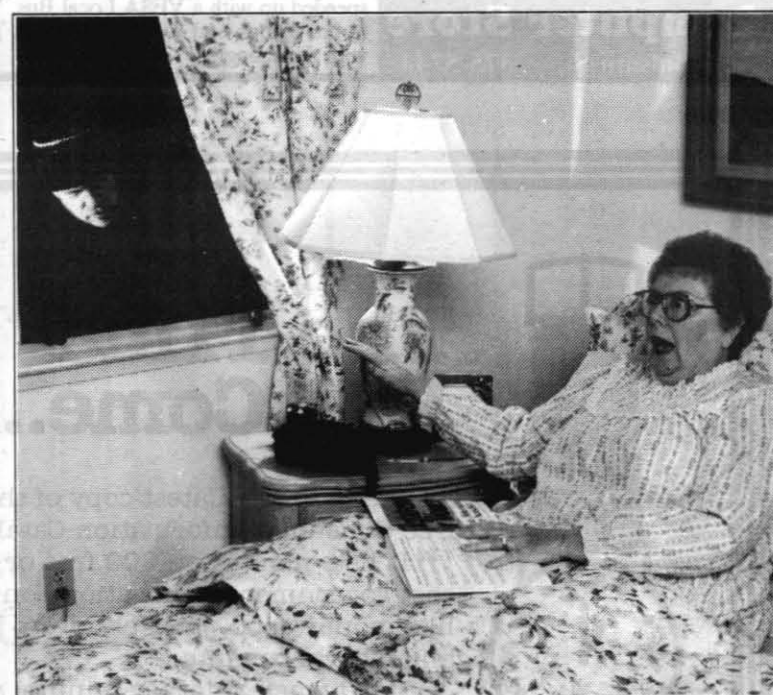
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## Wellness Corner

## NAWS China Lake spring cholesterol screening runs from Feb. 18 to March 11

On Feb. 18, the annual spring cholesterol screening begins at the Naval Air Weapons Station China Lake. It will continue through March 11. The blood analysis includes total cholesterol, high density lipoproteins, low density lipoproteins, triglycerides, glucose and total cholesterol/high density lipoprotein risk ratio. Cost is \$5, with checks made out to National Health Lab. Appointments are required from 6:45 to 8:30 a.m., while walk-in times are from 8:30 to 9 a.m., unless otherwise noted.

Appointments are made through computer by connecting to the SCFC VAX and typing WELLNESS at both the "username" and "password" prompts. Options will appear on the screen allowing users to select the preferred time and location for their appointments. If access is to another VAX network, log on and type "set host scfc." For those who cannot make their appointment by computer, call the Wellness Program Office, 939-2468, and leave a message giving name, code, phone number, the date, location and time preferred. Participants must abstain from eating any food or drinking anything other than water for 12 hours before their blood draw. Alcohol should not be consumed within 24 hours of the test.

### Spring Blood Draw Schedule

Feb. 18 — Michelson Lab, "Little D" Conference Room  
Feb. 19 — Michelson Lab, "Little D" Conference Room  
Feb. 23 — Michelson Lab, 1000A Conference Room (in lobby)  
Feb. 24 — Michelson Lab, 1000A Conference Room (in lobby)  
Feb. 25 — Michelson Lab, "Little D" Conference Room  
March 2 — Range Control Complex, Range Headquarters, Bldg. 31457, Conference Room 104 (appointments from 7 to 8:30 a.m.; no walk-ins)  
March 3 — Armitage Field, NAF-80, Bldg. 20192 (appointments from 7 to 9 a.m.; no walk-ins)  
March 4 — Instrumentation Operations Building, Bldg. 32544, Conference Room 123 (appointments from 7 to 8 a.m.; no walk-ins)  
March 4 — Branch Medical Clinic (appointments from 7 to 9 a.m.; no walk-ins)  
March 5 — Thompson Lab, Bldg 31433, Conference Room 2 (appointments from 7 to 8 a.m.; no walk-ins)  
March 5 — Branch Medical Clinic (appointments from 7 to 9 a.m.; no walk-ins)  
March 9 — EWTES (appointments from 7 to 9 a.m.; no walk-ins)  
March 10 — Public Works, Bldg. 981, Conference Room (appointments from 6:40 to 8 a.m.; no walk-ins)  
March 11 — CLPL, CLPL Cafeteria Conference Room; (appointments from 7 to 9 a.m.; no walk-ins)  
March 11 — Branch Medical Clinic (appointments from 7 to 9 a.m.; no walk-ins)

## Retirement films shown during upcoming seminar

On Saturday, Feb. 6, the Ridgecrest Chamber of Commerce is sponsoring "It's Right in Ridgecrest" at the Kerr McGee Center from 10 a.m. to 4 p.m.

In addition to the exposition, music and refreshments taking place that day, members of the Naval Air Warfare Center Weapons Division will present information covering various aspects of retirement planning. Pamphlets, movies and information on the CSRS/FERS retirement systems, Social Security, financial planning and much more will be available.

For those thinking about retirement a variety of films will be shown.

"Retirement Security. How Much Will You Need?" will play at 10:15 a.m. and again at 1:45 p.m. This 55-minute video answers a variety of questions dealing with retirement.

"Life After Retirement" will play at 11:15 a.m. and again at 3 p.m. This 42-minute video features a panel of retirees who answer questions about retirement. It gives a good insight into retirement for employees who want to retire, but have some of those nagging questions.

"FERS Orientation Video" is scheduled to run at 12:30 p.m. This 60-minute video gives a very comprehensive overview of the four major benefit programs under the Federal Employees' Retirement System. Topics include leave, health insurance, life insurance and retirement (FERS annuity, Social Security and the Thrift Savings Plan).

Eva Bien, head of the NAWCWPNS Human Resources Department urges all China Lakers, whether they plan on retiring in the near future or 20 years from now, to attend this informative event.

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**CONTEL**  
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## NAWC News

### Activity at other activities

#### Improving process saves time and money

Trenton, NJ. — Using the tools that are part of the Total Quality Leadership process improvement strategy, a test cell installation team significantly reduced the number of manhours needed to install a F404-GE-400 engine in one of NAWCAD Trenton's sea level test cells. The engine, which is undergoing an Accelerated, Simulated Mission Endurance Test, was installed, a series of systems checks performed and check run, in 13 calendar days. When measured against an identical installation done in 1989, which required six weeks to accomplish, the magnitude of the achievement can be appreciated.

#### Mobile radar to identify moving targets

Warminster, Pa. — The efforts of the Naval Air Warfare Center Aircraft Division Warminster Microwave Technology Division helped bring an unparalleled radar system to the Navy.

Recognizing the air-to-air potential of the radar, Air to Air Warfare Weapons Systems (NAVAIR 540) approached NAWCADWAR to complete the hardware, find projects and bring the system to full operational readiness.

The radar will help determine if moving aircraft are friend or foe by matching its "fingerprinted" return signal. Identifying small targets up to 20 miles away provides wide-spread applications. The Drug Enforcement Agency, and the Federal Aviation Administration and

United Kingdom Ministry of Defense have already expressed interest.

#### Threat simulators proved reliable

Indianapolis, Ind. — Two AN/ALQ-170 Countermeasure Simulator pods demonstrated excellent reliability and fidelity during their second operational West Coast deployment in December. Designed and manufactured at NAWCAD Indianapolis, the simulators were carried on Navy EP-3J and EA-6A aircraft from VAQ-33, deployed from NAS Key West to NAS Miramar. During this fleet exercise, similar results were reported on the new Fleet Tactical Readiness Group Band 3 pod, developed at Indianapolis using an AN/ALQ-99 Tactical Jamming pod and modified AN/ALT-40 hardware. A VAQ-35 EA-6B aircraft from NAS Whidbey Island, Wash., carried the equipment, which will enhance fleet capabilities against specific EW threats.

#### Dynamic Interface tests conducted

Patuxent River, Md. — Forty personnel from NAWCAD Pax River, Naval Air Systems Command and the United Kingdom embarked the amphibious assault ship USS Wasp (LHD 1) to conduct Dynamic Interface shipboard helicopter flight tests. The tests were coordinated by the Rotary Wing Aircraft Test Directorate's Dynamic Interface Department. DI tests are conducted to determine the combination of wind, ship motion, and lighting necessary for safe shipboard helicopter operations.

Highlights of the DI test included the conduct of Night Vision Device shipboard flight test operations during no-moon night test periods and the evaluation of the ship's newly installed NVD-compatible flight deck lighting scheme. The lighting scheme was developed in 1991 by a joint NAWCAD Pax River and Lakehurst team.

## Supply News

### Software available at Telmart

Telmar, the Naval Air Weapons Station China Lake Supply Department Warehouse 10, has a wide variety of software for PC needs. Prior to ordering through outside vendors or Spedi, save the Vax charges by calling 939-2241. When ordering, be sure to include the item's name and stock number.

Some of the items available, and their stock numbers, include: Always, LLADP0156; Appleshare PC, LLADP0147; Crosstalk, LLADP0034; Cubit, LLADP0111; Diskfit, LLADP0119; DOS 3.3, LLADP0047; and Excel for Windows, LLADP0153.

Other items being stocked at Warehouse 10, and their stock numbers, include: Free Lance Plus, LLADP0062; Hypercard, LLADP0124; Keep Track Plus, LLADP0112; Lahey Fortran Plus, LLADP0066; Lotus 1-2-3, LLADP0017; Master Juggler, LLADP0150; Mathcad, LLADP0130; Microsoft Project, LLADP0068; and Microsoft Word, LLADP0045.

Also in stock are MS GWBasic Compiler, LLADP0074; MS Macro Assembler, LLADP0075; Read, LLADP0059; Revelation 4-USR Bump, LLADP0135; Revelation Advanced, LLADP0057; Revelation, LLADP0136; and Right Writer, LLADP0070.

Additional items in stock are Seemore, LLADP0126; Sidekick IBM UTL, LLADP0024; Sidekick/Mac, LLADP0093; Smart Software Sys, LLADP0060; Smarterm 320, LLADP0171; and Smarterm 240, LLADP0055.

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## IMPORTANT NOTICE

### Concerning Allotments or Direct Deposits To NWC Community Federal Credit Union

NWC Community Federal Credit Union has recently completed a change of computer software which may have affected the distribution of the allotments or direct deposits.

To ensure that allotments or direct deposits to the Credit Union are being applied to the appropriate accounts or suffixes (suffix examples are :0-shares; 2-club accounts; 4-share draft/checking; 8-money market and 9-IRA) please carefully review recently received account statement(s).

If a change is required, please call 619-371-7162 / 7167 (or TOLL-FREE 800-433-9727) to speak with our Member Services Staff.

All of us at NWC Community Federal Credit Union wish to thank our members for their patience and understanding during our recent computer software conversion.



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## Spedi Speaks

### Transfer of SPEDI software to tandem won't save money

Following is a question that has been asked a number of times, most recently from Sue Booth and Trish Hoover through the IDEAS Program.

Question: Why not rehost the SPEDI software from Code C63's SCF VAX to Code C65's Tandem which is free?

Answer: While a true cost-benefit analysis on this subject has not been accomplished, the following are considerations such a study would have to address.

Speaking corporately, the Tandem is not free. The same costs that apply to operating and maintaining the SCF VAX also apply to the Tandem. These include maintenance of the hardware, software and communications; salaries associated with personnel to perform the functions of managers, operators and maintenance; facilities expenses, including utilities; and supplies.

At this time, Code C65 and NAVSUP's APADE Office assume all costs

associated with the operation and maintenance of the Tandem. The funding is a combination of a budget allocation from the division for the C65 portion and a direct line item appropriation to the APADE Program for the NAVSUP APADE Office portion. The C65 portion is indirectly passed on to customers through the division's G&A rates. Code C63 operates as a service cost center and passes the cost of running the SCF VAX directly to individual customers in the form of VAX charges. So, in either case, you are paying the costs associated with these computers. It is just a difference in how the money is collected.

In the ever changing environment of new technical alternatives, but limited by the current budget and manpower constraints, Code C65 is continuing to explore alternatives in both the area of most cost effective computer host for SPEDI and the area of most equitable method of charging customers.

## Security Flash

### Before traveling to a foreign country, check with Security Office

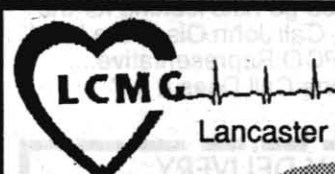
If planning to travel outside the United States, you may want to obtain a Foreign Travel Briefing from the Security Education Office. This briefing may be requested for official or personal travel. The briefing is mandatory if you are traveling to a hostile country. It takes about one hour and provides information on embassies, disease control and terrorist/hostage activity.

The Office of the Secretary of Defense has identified the following areas/countries as high physical threat

areas: Afghanistan, Colombia, Greece, Jordan, Lebanon, Pakistan, Panama, Peru, Philippines, Turkey and Honduras.

The following areas have been identified as potential physical threat areas: Algeria, Bolivia, Chad, Chile, El Salvador, Ethiopia, Israel, Liberia, Nicaragua, Somalia, Sudan, Syria, Tunisia, Yemen, Yugoslavia and Zaire.

For additional information contact the Security Education Office at 939-2216.



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### 'Proud to be a Citizen of a Country Blessed by God'

## All Faith Chapel sponsors National Prayer Luncheon

"Proud to be a Citizen of a Country Blessed by God," is the theme of this year's National Prayer Luncheon. Gladys Bauers and Martina Camphausen, both naturalized citizens, will be guest speakers at the local luncheon, set for 11:30 a.m. Thursday, Feb. 4, in the East Wing of the All Faith Chapel aboard the Naval Air Weapons Station China Lake. Tickets are \$5 each and may be purchased from members of the All Faith Chapel Men's Prayer Breakfast or the Chapel office (939-2873 or 939-2773).

Forty years ago President Dwight

Eisenhower and some members of the Congress established the first prayer breakfast for the purpose of seeking divine guidance in national leadership and to "reaffirm their faith and complete dependence upon Almighty God." Since then, it has become a tradition on the first Thursday of February, leaders and people from all walks of life and varied faiths come together at breakfast or luncheon, taking time out to count their many blessings, ask guidance for the country and rededicate themselves to the moral and spiritual values upon which America was founded.

## Code C622 participating in the local Adopt-A-Highway Program

With a feeling of *esprit de corps*, members of the Naval Air Warfare Center Human Resources Department at Naval Air Weapons Station China Lake decided to do their part in keeping the earth a bit cleaner. Code C622 is now an official member of the Adopt-A-Highway Program.

"We were looking for something we could do that would be fun and involve the entire group," noted Roger Peck, coordinator for the event. "This was something that fit those requirements best benefited the community."

The code is responsible for cleaning up a two-mile portion of Highway 178,

starting just a couple of miles west of the Inyokern Airport turnoff. Peck noted members of the code are responsible to pick up trash littering this stretch of the highway at least four times a year. Their first gathering was Jan. 9.

"We didn't have a big turnout," Peck said, "because the day was really windy and very cold." In fact, only five people were brave enough to endure the biting wind and cold. They were Peck, Betty Miller, Carol Corlett, Sue Bristow and Vicki Munro. Peck figures the next turn out will be better, as the weather won't be quite so bitter.

## PCB CADD Users Group forming

Members of the Product Assurance Division, Code C258, are establishing a Printed Circuit Board CADD Users Group. The first meeting is set for 8 to 9 a.m. on Feb. 17 in the Engineering Building Conference Room, Room 2001A.

According to Ray Stewart, one of the group's organizers, the purpose of the

meeting will be to discuss common problems and board fabrication needs and to exchange general knowledge to make a better product.

If enough interest is shown, this group will meet monthly. Interested personnel are urged to call Stewart at 939-1828 or Bernadette Namauleg at 939-1867.

# TEXTBOOKS

for the following classes are available at:

## The Village Bookshelf Cal State Northridge

### 1E608C

CLASS: Seminar in Engineering Management

TEXT: Implementing Total Quality Management

### EE642

CLASS: RF Electronics Design

TEXT: Solid State Radio Engineering

### 1E601

CLASS: Engineering Statistics

TEXT: Statistics for Experimenters: An Intro to Design

### AE672

CLASS: Advanced Topics in Aero Propulsion

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## PERSONNEL NEWS

### PROMOTIONAL OPPORTUNITIES

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

Eligible spouses, of military sponsors, with competitive employment status or eligibility under E.O. 12362, must register in the DOD Priority Placement Program to be eligible for spousal preference. Those enrolled in this program will automatically receive consideration for employment on vacancies for which they qualify. For initial employment information, career counseling and enrollment, call 939-3317 for an appointment.

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

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

### NOTICE REGARDING DRUG TESTING DESIGNATED POSITIONS

Any applicant tentatively selected for one of these positions will be required to submit to urinalysis to detect illegal use of drugs prior to a final selection. Final selection is contingent upon a negative drug test result, and thereafter the selectee will be subject to drug testing as the incumbent of a Testing Designated Position (TDP). Further, all Department of the Navy employees may be subject to drug testing under certain circumstances such as reasonable suspicion and after an accident. All individuals will have the opportunity to submit medical documentation that may support the legitimate use of a specific drug to a Medical Review Officer. An applicant's test results will be provided to the selecting official and servicing Civilian Personnel Office before a final selection is made. A verified positive drug test of a current Department of the Navy employee will also be provided to the employing activity/command. (NAWPCENINST 12792.2, 14 Dec 90)

### MERIT PROMOTION

**No. 21-010, Computer Engineering Technician, DT-802-1, Code C2193** — This position is in the AV-8B Systems Engineering Branch of the Aircraft Weapons Integration Department. The incumbent will provide computer engineering support to AN/AYK-14 mission computer systems, aircraft mibus data systems and associated subsystems, and support the system test engineers and software engineers in the branch. Responsibilities will include assisting in the development of aircraft mibus data systems test procedures; AV-8B day and night attack mission computer laboratory test procedures for development aircraft computer software; performance of laboratory validation testing of AV-8B aircraft avionics and weapons systems software. The applicant must be able to work as a member of an integrated government/contractor team on a project with ambitious goals and schedules. **Job-Relevant Criteria:** Knowledge of aircraft avionics relative to mibus data systems; knowledge of computer operating systems; ability to conduct standard test procedures; ability to perform upgrades to application software; ability to communicate orally; and the ability to communicate in writing. The applicant must be able to obtain and maintain a Secret clearance. The full potential of this position is DT-2. This ad opens on 28 January and closes on 4 February.

**No. 29-008, Supervisory Interdisciplinary (General/Mechanical/Electronics/Aerospace Engineer/Physicist/Mathematician), DP-801/830/850/855/861/1310/1520-3, Code C2911** — This position is Head of the RF Missile Systems Branch, Missile Systems Division, Intercept Weapons Department. The branch is responsible for the synthesis and analysis of RF weapons systems. Work performed by the branch includes design and trade-off investigations of RF missile systems and subsystems; engineering investigations related to developmental and operational weapon systems; pre- and post-flight data reduction and analysis of RF missile systems; maintenance and evolutionary growth of RF HWIL simulation facilities; target/background signature characterization and validation; and mathematical modeling and subsequent development of computer simulations required to accomplish the above-mentioned tasks. **Job-Relevant Criteria:** Knowledge of mathematical modeling and computer simulation

development; knowledge of and experience with RF missile guidance; ability to deal effectively with top NAWC management and officials from Washington; ability to deal effectively with personnel of diverse backgrounds; and the ability to support NAWC EEO goals and objectives. Incumbent must serve a 1-year supervisory probationary period if not previously completed. Incumbent must be able to obtain and maintain a Top Secret clearance. Any applicant tentatively selected for this position will be required to submit to urinalysis for illegal use of drugs prior to a final selection. See "Notice Regarding Drug Testing Designated Positions" in "Promotional Opportunities" box above. Area of consideration is Naval Air Warfare Center Weapons Division. Promotion potential to DP-4, but is not guaranteed. Note: This position has been identified as being an "Acquisition Professional" position under the Defense Acquisition Workforce Improvement Act. The Act mandates certain education, training, and experience requirements which may impact the incumbent. Additional information concerning these requirements is available in the Civilian Personnel Office. Permanent Change of Duty Station (PCS) is authorized. This ad opens on 28 January and closes on 11 February.

**No. 29-009, Interdisciplinary (General/Mechanical/Electrical/Electronics/Aerospace Engineer/Physicist/Mathematician), DP-801/830/850/855/861/1310/1520-3, Code C29A11** — This position is the Technical Development Manager of the Standard Missile Project Office, Intercept Weapons Department. The project office is responsible for design, development, and production of Standard Missile Target Detecting Devices. The office is currently developing plans and requirements for the next generation of Standard Missile. The Technical Development Manager oversees a wide range of development tasks in the project office. The Technical Development Manager works closely with the Development Manager on all aspects of project development including 6.3 and SDIO-related tasks. The position requires a technical management background, interaction with Washington sponsors, major and small contractors, Navy Field activities, NAWCWPNS/CL team house activities, technical interfacing with outside organizations, Washington sponsors and contractors, and providing direction to the NAWCWPNS/CL development tasks. Specific duties include preparation of

project work breakdown structures, ITAs, preparation of budgets, monitoring task expenditures, overseeing delivery order contracts, coordinating in-house reviews, project planning, participating in contractor and sponsor reviews, and other duties supporting the projects. **Job-Relevant Criteria:** Knowledge of NAWCWPNS/CL, Navy and DOD project policies and procedures; knowledge of a broad range of engineering disciplines; knowledge of guidelines and procedures for engineering development; ability to plan, organize, coordinate, and manage technical development projects; ability to coordinate and manage a team of technical people; ability to communicate both orally and in writing; and the ability and willingness to travel. The full promotion potential for this position is DP-3. Permanent Change of Duty Station (PCS) is authorized. This ad opens on 28 January and closes on 11 February.

**No. 29-010, Supervisory Interdisciplinary (General/Mechanical/Electronics Engineer/Physicist/Mathematician/Computer Scientist), DP-801/830/855/1310/1520/1550-3, Code C2942** — This position is Head, Advanced Concepts Branch, Electro-Optics Guidance Division, Intercept Weapons Department. The incumbent manages and provides technical direction for the design, analysis, test, and subsystems for use in anti-air missiles. **Job-Relevant Criteria:** Knowledge of the electro-optics guidance and target acquisition subsystems for use in anti-air missiles; ability to coordinate/negotiate with Center, Navy, DOD, and contractor organizations in defining technical and management objectives and controlling/reporting processes; ability to supervise an interdisciplinary professional workforce, ability to communicate both orally and in writing; and the ability and willingness to support NAWC EEO policies and goals. Note: This position has been identified as being an "Acquisition Professional" position under the Defense Acquisition Workforce Improvement Act. The Act mandates certain education, training, and experience requirements which may impact the incumbent. Additional information concerning these requirements is available in the Civilian Personnel Office. Incumbent may be required to serve a 1-year supervisory probationary period. Full performance level is DP-4, but not guaranteed. Permanent Change of Duty Station (PCS) expenses are authorized. This ad opens on 28 January and closes on 11 February.

**No. 32-008, Electronics Technician, DT-856-2/3, Code C32543** — This position is located in the RF Communications Section, Range Support Branch, Data Systems Division, Range Department. The Section supports all scheduled range operations involving microwave, UHF and VHF radio systems and also supports tests that require the utilization of Command Destruct Systems. The incumbent will be responsible for the installation and maintenance of microwave transmission systems, maintaining an inventory of these radios, recordkeeping of radio types, locations, and frequency assignments and keeping a running update of spares, mods, specs, and other functional information. **Job-Relevant Criteria:** Knowledge of communication systems; skill in installation, maintenance, and repair of electronics equipment; ability to communicate in writing; and the ability to troubleshoot digital and/or analog circuits. The full performance level of this position is DT-3. This ad opens on 28 January and closes on 4 February.

**No. 65-002, Procurement Clerk (Typing)/Procurement Assistant, DG-1106-1/2/3, Code C002** — This position is located in the NAWCWPNS Small Business Office located at the China Lake site. Incumbent provides assistance and answers as many routine specific questions as possible pertaining to the procurement process. Serves as the principal clerical and/or administrative support person in the office, coordinating and carrying out clerical and administrative requirements. **Job-Relevant Criteria:** For DG-1: Knowledge of correspondence regulations and contractual terminology; ability to meet with people effectively; ability to prioritize work under heavy workload conditions; ability to collect and compile data. For DG-2 and DG-3: Knowledge of Federal contract procedures; ability to organize file documentation; ability to prioritize and process, in an orderly manner, multiple tasks simultaneously; ability to collect and analyze data.

Permanent Change in Duty Station (PCS) is not authorized. Full performance level is DG-3. This ad opens on 28 January and closes on 11 February.

**No. 85-001, Supply Clerk/Technician, DG-2005-2/3, Code C852** — This position is located in the Ordnance Administration Division, Weapons Department. The incumbent will be responsible for ammunition requisitioning and conducting follow-up research. The incumbent will review ammunition shipping and receipt documents for completeness and accuracy, update the ordnance inventory database, file records, prepare and submit ammunition reports as required, review physical inventories and conduct causative research. **Job-Relevant Criteria:** Knowledge of and working skills on computers; ability to read, interpret and understand written instructions; ability to communicate orally; ability to interface effectively with others and work independently. Full performance level is DG-3.

### SECRETARIAL COLUMN

**No. 21-007, Secretary (Typing) DG-318-1/2, Code C2146** — This position is located in the Aircraft Weapons Integration Department. The incumbent will provide secretarial and administrative support to the A-6 Avionics and Weapons Integration Branch, located at Armitage Field. The branch is responsible for avionics and weapons integration for the A-6 Aircraft. Ability to develop proficiency in operating a Macintosh desktop personal computer is required. Knowledge of word processing software is desirable. The incumbent must be able to obtain and maintain a Secret clearance. The full performance level of this position is DG-2. This ad opens on 14 January and closes on 21 January.

**No. 023-002, Secretary, DG-318-2, Code C0235** — The incumbent provides secretarial support including travel arrangements, correspondence, short reports, arranging for conference rooms, viewgraphs, etc., to the Chemistry Division. Knowledge of and working skill on the Macintosh II and software including Microsoft Word and PowerPoint is desirable. The full performance level of this position is DG-2. This ad opens 28 January and closes on 4 February.

**No. 32-005, Secretary (Typing), DG-318-1/2, Code C3232** — This position is located in the Engineering Support Branch, Instrumentation Systems Division, Range Department. The incumbent will provide secretarial support to the branch head and branch personnel. Knowledge and experience on the Macintosh is required. Proficiency on the following applications is desirable: Microsoft Word, FileMaker Pro, Fast Track, VersaTerm, PowerPoint, and Excel. Must be able to acquire and maintain a Secret clearance. Promotion potential to DG-2, but not guaranteed. This ad opens on 28 January and closes on 4 February.

### SECRETARIAL OPPORTUNITIES

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

Applicants will be rated against four or more of the following job relevant criteria: (1) ability to perform receptionist and telephone duties; (2) ability to review, track, screen and distribute incoming mail; (3) ability to review outgoing correspondence; (4) ability to compose correspondence and/or prepare non-technical reports; (5) knowledge of filing systems and files management; (6) ability to meet the administrative needs of the office; (7) ability to train clerical personnel and organize workload of clerical staff processes; (8) ability to plan and coordinate travel arrangements; (9) ability to maintain and coordinate supervisor's calendar and to arrange conferences. Unless otherwise indicated, applicants for branch secretary will be rated on elements 1/2/3/5/8; division secretary applicants will be rated on elements 1/2/3/4/5/6/9; Program Office secretary applicants will be rated on elements 1/2/3/4/5/6/9. A SUPPLEMENTAL FORM IS REQUIRED AND MAY BE OBTAINED IN ROOM 100 OF THE PERSONNEL BUILDING.



## Naval Air Warfare Center Weapons Division Naval Air Weapons Station, China Lake Announcements

Submit items to: Code C08033; FAX 939-2796, Barry McDonald



### CALL FOR CITATIONS FOR THE 1992 NAWCWPNS BIBLIOGRAPHY

Send abstracts of official publications, patents, open literature items, and published classified papers to Code C6416 by Friday, 12 February for inclusion in the Center's 1992 Bibliography. This bibliography will cover calendar year 1992.

Open literature entries should include bibliographic information and abstracts of technical papers, articles, and books written by NAWCWPNS China Lake employees, that have been published in journals, by professional societies or commercial publishers, or by governmental agencies other than NAWCWPNS. Also submit bibliographic information on classified technical papers and articles. Do not, however, include papers—regardless of classification—that were presented but not published or accepted for publication. Please include classification of the paper and of the publication.

Entries should be double-spaced. Copies of journal or proceedings covers or title pages are acceptable for bibliographic citations, but abstracts are also needed. If you have any questions, call Jane Crow at 939-0343. (Code C6416)

### RECARPETING OF THE TECHNICAL LIBRARY

The Technical Library Division, Code C643, would like to inform its clientele of a 4-week interruption in services beginning 28 January for recarpeting. We will have to move files, work areas, and equipment, and most of the work will take place on Thursdays, Fridays, and Mondays. Although the library will remain open, we ask that you schedule your library needs on Tuesdays and Wednesdays. We regret this inconvenience, but it is necessary in order to maintain a professional atmosphere for our customers. (Code C643)

### THRIFT SAVINGS PLAN (TSP) RATES OF RETURN

According to the latest TSP fact sheet, the rates of return for the three investment funds were

	C Fund	F Fund	G Fund
December	1.21%	1.54%	0.58%
Last 12 Months	7.70%	7.20%	7.23%
C Fund—Common Stock Index (Stocks)			
F Fund—Fixed Income Index (Bonds)			
G Fund—Government Securities			

### PRINTED WIRING BOARD TECHNOLOGY DESIGN AND MANUFACTURING COURSE

The Electronics Production Technology Training Office (Code C25812) is introducing a new course focusing on the design and manufacturing aspects of printed wiring boards (PWBs). The course will introduce students to the Standards associated with PWBs, the materials selection criteria, layout and design of the PWB, and how it may affect the manufacturing steps, and inspection criteria. All types of printed wiring boards will be addressed. The course provides an excellent base for new designers as well as those experienced in the technology. The course will begin on 23 February at

the Electronics Production Technology Training Facility, 543 Graaf St., Ridgecrest and is 24 hours long. The course is available to military and civilian employees of NAWC and NAWS and to contractor personnel. To obtain more information or to schedule the class, contact the Electronics Production Technology Training Facility at 446-5571. (Code C25812)

### ELDER CARE INFORMATION

Area Agencies on Aging (AAAs) are located in 670 communities nationwide. They can help employees locate services for their elderly parents/relatives, even if their parents/relatives live in another part of the country. Their toll-free number is 1-800-677-1116. Also, the Department of Defense Eldercare Handbook, developed by the Office of the Assistant Secretary of Defense for Force Management and Personnel, is available in the Wellness Program Office, 939-2468. (Code C622)

### GERMAN CLASS OFFERED

Sierra Sands School District Adult School is offering a continuation of first Semester German (both beginning and advanced) on Monday evenings, 1800-2000. Classes will resume on Monday, 25 January at Burroughs High School, Room D23. For more information call Marcia Thigpen at 375-4476 (work) or 375-8924 (home). Registration will take place during the first class meeting of the new semester. (Code C2901A)

### NTS RYE CANYON LAB PRESENTATION

NTS will present its general laboratories capabilities to include the Rye Canyon Research and Development Lab on Wednesday, 3 February, 0930-1130 at Mich Lab, Room B/C. Topics will include wind tunnels that will include Mach 0.2 to 10 speeds; propulsion tunnel that provides NPRs up to 50 with flows of 10 lbs/sec; altitude chambers - space, 150k ft 20' x 25' x 60' @ 1k ft/sec to 50 k ft; acoustic chambers to 200 Db; air pad facilities to 80 lbs/sec, 6 lbs/sec @ 1000°F; and general R&D capabilities.

### IMAGERY IN THE COCKPIT

During Operation Desert Shield and Desert Storm, there were significant intelligence/targeting assets available to field commanders. The ability, however, to get that information, especially imagery around the battlefield, was very limited.

Recognizing that, Hughes Aircraft Company's Reconnaissance System Division examined various ways to address that problem. Their initial approach resulted in passing a high-resolution ASARS-2 image from one lab to another over a standard telephone line. During this demo, they used Macintosh computers and STU IIs. Further investigation led to the subject presentation.

Bob Chiota of Hughes Aircraft company will describe lab and field demonstrations which involved the innovative use of equipment already fielded, to pass ASARS-2 derived high-resolution imagery to fighter aircraft. The presentation will also address architecture for secondary imagery dissemination to the fleet around the battlefield, and

to the special operating forces.

This meeting will be held on 16 February, 1400 at Mich Lab, Room B/C. For further information call 939-1074, Mich Lab, Room 1008. (Code C0254)

### M/A-COM GMIC BRIEF

M/A-COM Inc., representatives will be at China Lake on 11 February, 0930-1130, in Lauritsen Lab, Conference Room 2, to give a brief on a new fabrication technology called glass microwave integrated circuit (GMIC). M/A-COM describes the technology as providing many of the manufacturing advantages of MMICs while enhancing the desirable performance characteristics of microstrip. Using a new type of substrate comprising a glass wafer laminated to a silicon wafer, the GMIC fabrication sequence takes advantage of batch processing methods using advanced thin film techniques, automated assembly, and wafer level test. M/A-COM feels this is an exceptionally reproducible circuit fabrication technology suitable for a broad range of hybrid applications, as well as efficient integration of multichip MMIC design.

In a GMIC substrate, the glass layer serves as the microstrip transmission medium while the silicon layer provides the necessary mechanical support and creates an integral carrier. A gold film between the two layers carries the ground currents to minimize losses. Semiconductors can be mounted to the silicon through etched holes in the thin glass layers. The use of this composite substrate leads to a high level of integration of passive elements and interconnections, making it possible to realize nearly any microstrip circuit desired. Assembly and test can be performed on the intact GMIC wafer, greatly simplifying automation.

The presentation will include GMIC technical discussions, manufacturing considerations, packaging options, GMIC applications, application to higher level assemblies, and T/R module applications. For further information contact R. J. Schramm at 939-3715 or West Katzenstein at 939-0361. (Code C2156)

### WACOM LUNCHEON MEETING

The February WACOM luncheon meeting will be held at the Seafarer Club on Tuesday, 9 February with a social period at 1100 and lunch at 1130. The meeting will feature Bruce Daniels, a talented vocalist. Members may make reservations by calling Eleanor Rockdale at 446-6925. (Code C86)

### ESL-MASTERS ESSAY EXAM PREPARATION

This is a practical course in English composition designed to prepare the ESL student to write a test essay within the 1-hour schedule. Emphasis throughout the course is on writing. Study includes a brief, nontechnical review of basic sentence and paragraph structure followed by an intensive study of essays. This is a semester length course following the Northridge semester schedule.

This class will begin on Tuesday, 2 February, 0830-1000, and will be held each Tuesday throughout the semester at the Training Center Trailer. Carol Hutto is the

instructor. To enroll call 939-3159. (Code C624)

### RESCHEDULING OF TEXAS INSTRUMENTS RF IR&D

Representatives from Texas Instruments will be at China Lake to present a briefing on RF Review on 4 February in Mich Lab, Room B/C from 0830 to 1430 (NOTE TIME CHANGE).

The agenda topics will include Advanced Radar, Microwave Technology, Antennas, and Radomes. For further information, contact Gerry Peterson or Chuck Newmyer at 939-1074. (Code C0254)

### AIL SYSTEMS, INC. BRIEF

AIL Systems, Inc. representatives will be at China Lake, 2 February from 0830 to 1600 in Mich Lab, Room B/C to give a brief on the development work in Coherent Countermeasures (CoCM), BiStatics Integration with ESM, Laser Warning Receivers, and Electro-Optic (EO) Technology.

The CoCM brief will discuss AIL's work using digital RF memory (DRFMs) and direct digital Synthesis (DDS) technology with applications to the ALQ-99 Universal Exciter.

The BiStatics integration brief will discuss AIL's work in silent detection of targets and results of testing performed at the Naval Surface Weapons Center, Dahlgren, Va.

The Laser Warning and EO technology brief will discuss AIL's work in developing a high-accuracy laser warning receiver.

For more information and a detailed agenda, contact Gerry Peterson or Chuck Newmyer at 939-1074.

### RETIREMENTS

#### ED BUELTMANN

Ed Bueltmann (C02316) will be retiring on 1 February after 37 years of Federal service. A farewell luncheon will be held in his honor at Farris' at the Heritage on Friday, 5 February at 1115. The cost of the buffet luncheon is \$8.50 per person. For reservations, presentations, or gift donations contact Bev Reymore at 939-3855 or Michele Lindsay at 939-2470 by 3 February.

#### HAL JEFFERS

Hal Jeffers, (C32204) Range Safety Officer, will be retiring on 1 February. A farewell dinner will be held in his honor on at the Heritage Inn Flight Deck room on Friday, 19 February at 1800. A buffet dinner will be served by Farris' featuring two entrees, two salads, rice pilaf, potatoes, vegetable, rolls and butter, and choice of beverage. The cost will be \$12 per person, including gratuity. For tickets, presentations, or gift donations contact Sandi Jennings at 939-6811 or Ann Wagner at 939-6033 by 11 February.



## 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 80 hours. Employees who wish to help a leave recipient may donate annual leave to the employee by submitting a completed NAWPNCEN Form 12630/16 (Request to Donate Annual Leave to Leave Recipient). This form is available at Shop Store (Tel-Mart). A copy of your leave and earning statement is NOT required. Send your form to Code C621. For additional information please call Cindy Smith at 939-2018.

**Mary Ann Hiser, Engineering Data Management Specialist, Code C2556.**

Mary Ann was hospitalized with pneumonia and bronchial asthma.

**Eleanor (Ellie) Semore, Purchase Agent, Code C652.**

Ellie is suffering from an acute onset of congestive heart failure complicated by a bronchial infection and diabetes.

**Jesse Ray Lewis, Jr., Police Officer, Code C8413.**

Jesse Ray has been off work for several months as a result of back surgery and its complications.

**Deborah A. Birch, Secretary, Code C392A.**

Deborah received treatment for breast cancer and is indebted for leave.

**Pamela Carpenter, Chemist, Code C2714.**

Pamela is indebted for leave due to hospitalization for hyper emissis gravatus.

**Brenda Kirkpatrick, Medical Transcriber, Branch Medical Clinic (Long Beach).**

Brenda's daughter was in a car accident and severely injured her foot and requires surgery and rehabilitation.

**Alvina S. Quintanilla, Contract Specialist, Code C654.**

Alvina is undergoing daily radiation therapy for inoperable cancer of the naso-pharynx.



Unless otherwise noted, enroll in the following classes by submitting NAWPNCEN 12410/73 (Rev. 12-88), Request for On-Center Training, via department channels to Code C622. (Code C622)

## MULTI-SENSOR CORRELATION &amp; DATA FUSION (40 hrs.)

1-5 March; Monday-Friday, 0800-1600; Training Center. By: Drs. David Hall and James Llinas, Consultants

This course provides a comprehensive treatment of data fusion system development. Participants will gain both the conceptual framework and the practical engineering methodologies necessary for implementing state-of-the-art data fusion systems. These techniques range from single and multi-sensor tracking to intelligent multi-media human-computer interfaces. Analytical tools and techniques, as they apply to Non-Cooperative Target Recognition (NCTR), and Automatic Target Recognition (ATR), multi-sensor detection processing, and multi-source situation and threat assessments are presented. Emerging technologies such as artificial neural networks, automated reasoning, photonics and optical processing are examined for future data fusion systems applications. Techniques for data fusion processes are also illustrated through in-depth examples and demonstrations.

Deadline: 16 February.

## SPECIFICATIONS: "HOW DO I USE THEM?" (24 hrs.)

8-10 March; Monday-Wednesday, 0800-1600; Training Center. By: Stan Caine, C2556

This course is intended for people whose lives come into contact with specifications: contract people, engineers, technical managers, configuration managers, data managers, and anyone who would like to know more about using/reviewing specifications.

The course will cover the following topics and documents:

- Topics: What a specification is/is not; legal aspects of a specifications; why a specification is needed; how a specification does; how a specification is used; how to review a specification; MIL-SPECS vs. Program Peculiar Specs; CALS and specifications; when to use a specification; drawing specifications; drawings and specifications; CMM and specifications; CDRLs and specifications.
- Documents: MIL-S-83490; MIL-STD-480; MIL-STD-490; MIL-STD-961; MIL-STD-973; MIL-STD-1806; MIL-T-31000; DOD 4120.3-M; GOP Style Manual; SD-1; DODISS; FAR.

Deadline: 22 February.

## GPS (INERTIAL) NAVIGATION (20 hrs.)

15-19 March; Monday-Friday, 0730-1130; Training Center. By: Dr. Allen Fuhs, Consultant

Prerequisite: A bachelor-level degree in engineering or science.

The initial discussion covers navigation methods and systems including celestial, inertial, radio, etc. The requirements for any navigation system are presented. The focus then shifts to satellite navigation systems with preponderance of effort on Navigation System using Time And Range, Global Positioning System. A brief description of the Navy Transit and Nova navigation satellite systems provides perspective for the subsequent information on GPS. Atmospheric and ionospheric effects are discussed including the refraction and time delay of electromagnetic waves. The history of the NAVSTAR GPS system receives attention. A comparison with the Russian (Soviet) GLONASS system is made. GPS contributions to success in Desert Storm are presented.

Deadline: 1 March.

## WEATHER EFFECTS ON VISIBLE IR &amp; MMW SENSORS (24 hrs.)

22-24 March; Monday-Wednesday, 0800-1600; Training Center. By: Eric J. Borg, Consultant

This short course is designed for individuals who require an understanding of the performance of these sensors in various atmospheric phenomenological conditions in order to:

- Design and Test Sensors

- Evaluate Concepts
- Develop Weather Specifications
- Perform Trade-Off Studies

Topics covered are Phenomenology - Impact on Sensor Suite Selection; Case Histories; Sensor Design Performance Criteria; Signal Propagation Effects; Atmospheric Phenomena and their Effects on Sensors; Special Case Studies; Modeling Atmospheric Phenomena; Performing Comprehensive Trade-Off Studies; Weather Effects on Targets and Background Signatures; Advances in Climatology Databases; Case Studies of Selected Regions; Sensor Performance Requirements; Case Studies: Developing Sensor Specifications Based on Atmospheric Phenomenology and End-Use; Documenting Atmospheric Phenomena During Sensor Tests.

Deadline: 8 March.

## RANGE INSTRUMENTATION OVERVIEW (4 hrs.)

23 March; Tuesday, 0730-1130; Training Center. By: Byron Edde, Consultant

This short-course is designed for engineers, scientists, technicians, managers, and others who need basic information on this topic.

- The principal units of instruction are:
  - Range instrumentation requirements
  - The Inter-Range Instrumentation Group and its standards
  - General sensor requirements
  - System status instrumentation (Telemetry)
  - Space-positioning instrumentation
  - Optical sensors and instrumentation systems
  - Sensor acquisition of test vehicles
  - Command, control, and destruct systems
  - Miss-distance instrumentation
  - Range timing
  - Real-time data systems
  - Range communication
  - Position, data, and communication encryption.

Deadline: 9 March.

## FLIGHT TEST ENGINEER TRAINING (40 hrs.)

29 March-2 April; Monday-Friday, 0800-1600; Training Center. By: Maren Decolator and Robert McShea, Consultants

This 5-day course covers the evolution of a flight test program including the need for flight test, program concerns, test assets required, types of instrumentation, data reduction, and analysis. Types of Time, Space and Position Information (TSP) sources, and their relationship to flight test requirements are discussed. Differences in development and demonstration programs are addressed as well as the relationship with internal and external customers. The latest advancement in data acquisition, correlation, merging, and analysis will be studied with an inclination toward true performance vs. the predicted.

Deadline: 15 March.

## RADAR FUNDAMENTALS FOR TECHNICIANS (40 hrs.)

1-5 March; Monday-Friday, 0800-1600; Training Center. By: Peter Hicks, Consultant

This course is designed for Electronic Technicians and other personnel who require an introduction and understanding of digital computers and systems. The student should have knowledge of DC, AC, and basic semiconductor theory.

This course provides the student with a knowledge of radar-measuring principles, generation of microwave signals, waveguides, transmitters, receivers, and propagation characteristics. The course discusses these and other topics to a detailed block diagram description. The course objective is to provide the student with an overview of what radar systems are and generally how they work. The student will construct basic pulse-forming circuits, pulse-shaping circuits, basic pulse radar-simulating circuits and make pulse width, rise/fall-time, and duty cycle measurements and calculations.

Deadline: 16 February.

## DIGITAL TROUBLESHOOTING (40 hrs.)

29 March-2 April; Monday-Friday, 0800-1600; Training Center. By: Peter Hicks, Consultant

This course is designed for personnel who require an understanding of digital circuits and the troubleshooting techniques required for successful circuit fault isolation.

This course provides the student with knowledge of binary, octal, and hexadecimal number systems as well as logic families, logic gates, flip flops, schematic symbols, circuit functions, truth tables, Boolean expressions, combinational logic circuits, arithmetic circuits, A/D converters, D/A converters, data bus concepts, memory devices, basic microprocessor operation and troubleshooting techniques used to isolate circuit faults occurring in integrated circuit technology as it applies to digital electronic circuits. The course provides both theory and hands-on skill training.

Deadline: 15 March.

## AIRCRAFT AVIONICS (16 hrs.)

8-11 March; Monday-Thursday, 0800-1130; Training Center. By: Dean Elliott, C219.

## REQUIRED FOR ENROLLEES IN THE SEC PROGRAM

Students will have an understanding of how avionics has evolved over the past 40 years and a glimpse into where it is going in the next 20 years. The development process, interfaces, system architecture, and a brief overview of 20 avionics systems will be the topics of discussion. The class material is designed so that the student will acquire a basic understanding of what avionics is and a top-level understanding of the subsystems used on the fighter and attack aircraft supported at NAWCWPNS.

Deadline: 22 February.

## TRANSITION FROM DEVELOPMENT TO PRODUCTION (24 hrs.)

2-4 March; Tuesday-Thursday, 0800-1600; Training Center. By: Charles Frederickson, Consultant

## REQUIRED FOR ENROLLEES IN THE SEC PROGRAM

This class will address those critical path templates associated with development to minimize the risk associated with building and fielding weapon systems. It will cover the templates in DOD-4245.7M to assist technical personnel in understanding the value and need to address production-oriented requirements early in the weapon system development. The major thrust of this class will address the identification and establishment of critical engineering processes and their control methods necessary to provide weapon systems that meet user needs and requirements.

Deadline: 16 February.

## NAVY SYSTEMS ACQUISITION (32 hrs.)

2-5 March; Tuesday-Friday, 0800-1600; Training Center. By: Al Cahill, Consultant

## REQUIRED FOR ENROLLEES IN THE TMC PROGRAM

This class provides the participants with a comprehensive understanding of how the Department of the Navy (DON) conducts systems acquisition. Its purpose is the preparation/upgrading of military officers and civilian personnel for assignments in all aspects of Navy Systems Acquisition. The participants are introduced to the system acquisition environment in the DON and the DON. Building on that fundamental knowledge, DON system acquisition policy and procedures are discussed specifically. The course focuses on the unique ways in which the DON is organized to conduct systems acquisition. Case studies allow the participants to continually reinforce the course learning objectives by applying the concepts, principles, and procedures described during classroom lecture/discussion sessions.

Deadline: 16 February.

## RELATIONSHIP STRATEGIES &amp; TEAM BUILDING (16 hrs.)

4-5 February; Thursday-Friday, 0800-1600; Training Center. By: Dawn Hodson

This course is designed to improve the interpersonal skills of staff members by understanding the difference in personality types and how to best work with each other. It will also help people understand and cope better with the changes occurring in their departments and identify work through problems within the office. Attendees will learn how to use the Situational Leadership model to improve communications, problem solving, coaching, and managing.

Note: Registration is by call-in only. To enroll call Pat at 939-3159

## SCIENTIFIC &amp; TECHNICAL REPORT WRITING (25 hrs.)

1-5 February; Monday-Friday, 0800-1600; Training Center. By: Communication Skills, Inc.

Scientific & Technical Report Writing is designed to help scientists, engineers, technicians, medical

## SECURITY CLASS

## SECURITY FOR CLERICAL AND ADMINISTRATIVE WORKFORCE (8 hrs.)

3 February; Tuesday, 0730-1630; Training Center. By: Linda Hall, Code C84301

This course provides information and exercises on marking and safeguarding classified material; how to obtain courier cards and letters; transmission of technical documents; and arranging for visitors and badges.

## CUSTODY CONTROL POINT (CCP) PROCEDURES (8 hrs.)

10 February; Wednesday, 0730-1630; Training Center. By: Linda Hall, Code C84301

Prerequisite: Security for Clerical and Administrative Workforce.

This class is for all custody control points and alternates. It will include a discussion of CCP responsibilities, duties, and procedures. This "hands-on" class will cover secret document control, accountability procedures, custodial responsibilities, transmittal, markings/wrappings/addressing packages, accounting procedures, reproduction, and distribution.

researchers, and technical writers and editors solve the special problems encountered in scientific and technical writing. The course has four objectives:

- To identify the 10 characteristics of a good scientific or technical report.
- To emphasize the importance of precision in expression.
- To suggest efficient and practical methods through which sentences and paragraphs can be organized into a successful scientific paper or report.
- To help students deal with the particular requirements of abstracts, summaries, introductions, and conclusions.

The governing principle in this course is the principle of immediate application. Discussions in technique are followed immediately by sessions in which class members participate, and during which they apply the lessons of the day to practice exercises and problems. To enroll call Pat at 939-3159.

## IMAGE &amp; COMMUNICATION SKILLS FOR WOMAN(6 hrs.)

3 March; Wednesday, 0800-1500; Carriage Inn. By: National Businesswomen's Leadership Association

The opportunities for women in business have never been greater. There are a number of identifiable traits that most successful women in the workplace have in common. This workshop contains the most practical information possible on self-presentation and communication skills to help you achieve success in your personal and career goals, boost your professional impact, and develop powerful, creative image skills. Skills you will learn are:

- How to gain authority through your bearing, mannerisms, gestures, and speech
- How to present your ideas persuasively
- How to gain recognition and respect for your work
- How to handle conflict and deal with difficult people
- How to communicate with impact
- How to make sure your nonverbal messages are saying what you want them to say
- How to prepare to move up...and let those above you know you are ready

The cost for this class is \$65. Enrollment is by call-in only and a JO# is required. Do not send in training requests. To enroll call 939-6628.

## MTF MESSAGE EDITOR FOR IBM (8 hrs.)

18 February; Thursday, 0800-1600; Training Center. By: H2 Enterprises

Prerequisite: Knowledge of GENADMIN Naval Message procedures.

The objectives of this course are to create, edit, copy, and spell check Naval messages, using the MTF Editor message preparation program and to physically and electronically prepare diskettes in accordance with NTP-3 Annex D by placing all necessary files and messages on a floppy disk for delivery and transmission by Naval Telecommunications Center (NTCC) China Lake. Participants will also learn how to use the programs for format error checking. To sign up for this class, call Pat at 939-3159

## MTF MESSAGE EDITOR for MAC (8 hrs.)

23 February; Tuesday, 0800-1600; Training Center. By: H2 Enterprises

Prerequisite: Knowledge of GENADMIN Naval Message procedures.

The objectives of this course are to create, edit, copy, and spell check Naval messages, using the MTF Editor message preparation program and to physically and electronically prepare diskettes in accordance with NTP-3 Annex D by placing all necessary files and messages on a floppy disk for delivery and transmission by Naval Telecommunications Center (NTCC) China Lake. Participants will also learn how to use the programs for format error checking. To sign up for this class, call Pat at 939-3159.

## MANAGING OTHER PEOPLE'S WRITING (16 hrs.)

9-10 March; Tuesday-Wednesday, 0800-1600; Training Center. By: Casey Reynolds

Designed for supervisory or administrative personnel who must edit the writing of others, this workshop focuses on the "chop and polish" process in government writing. Attendees will refresh their skills in critiquing matters of mechanics, style, and content. This will include problems in organization, sentence structure, vocabulary, paragraphing, punctuation, and common pitfalls in business grammar. Attention will also be given to evaluating thought development, logic accuracy, clarity, and the suitability of the written material for the intended objective and targeted reader. Special classroom time will be devoted to the "people" problems inherent in the editing task, including a discussion of interpersonal skills helpful to those who must pass judgement on the work of others. To reserve a space in this course, call Pat at 939-3159.

## PROOFREADING AND EDITING SKILLS (8 hrs.)

8 March; Monday; 0800-1600; Training Center. By: Management Skills Associates, Inc.

This workshop provides practical help to originating writers, clerks, or secretaries who must bring accuracy and polish to any document in its final form. Students get ample practice in a sequence of proofreading procedures. Using standard body systems and its consequences on acute and chronic disease. Emphasis will be placed on the latest scientific studies showing the effects of various types of stress on the immune, cardiovascular, gastrointestinal, and other systems. Two short questionnaires will be given out to help participants understand the types and level of stress in their lives. We will then look at the most appropriate options for controlling stress. Techniques for short-term and long-term stress management will be taught. Discussion will include the unhealthy effect of too much good stress and the potentially healthful influence of some bad stress. The role of diet, exercise, and chemical dependency on stress will be discussed. Many handouts will be given along with adequate time for questions.

Enrollments are filled as first request received, first approved.

## STRESS AND YOUR BODY (4 hrs.)

19 February; Friday, 1230-1630; Training Center. By: Dr. Wes Youngberg, Consultant

This seminar deals with the impact stress has on our various body systems and its consequences on acute and chronic disease. Emphasis will be placed on the latest scientific studies showing the effects of various types of stress on the immune, cardiovascular, gastrointestinal, and other systems. Two short questionnaires will be given out to help participants understand the types and level of stress in their lives. We will then look at the most appropriate options for controlling stress. Techniques for short-term and long-term stress management will be taught. Discussion will include the unhealthy effect of too much good stress and the potentially healthful influence of some bad stress. The role of diet, exercise, and chemical dependency on stress will be discussed. Many handouts will be given along with adequate time for questions.

## EFFECTIVE INTERACTION SKILLS (16 hrs.)

18-19 March; Thursday-Friday, 0800-1600; Training Center. By: Marion Lapan

The main objective of this seminar is to present webbing techniques in dealing effectively with a wide variety of personality styles found in the work environment. Participants will identify problematic areas of communication and interaction and learn and practice specific skills to enhance both one-on-one relationships as well as polish team effectiveness skills. Seminar format will include role playing, practical exercises, and guided visualization to bring participants to self-mastery in their interpersonal relationships. To enroll call Pat at 939-3159.

## BASIC GRAMMAR REVIEW (8 hrs.)

23 March; Tuesday, 0800-1600; Training Center. By: LaNelle Thompson

Whether we are writing a proposal to sell an idea, a letter to solve a problem, or a memorandum to organize a meeting, we want results from that effort. Unless writing is presented correctly, the message will not have a chance to get through. The objective of this workshop is to help that person who needs a refresher course in the mechanics of written expression and usage, but does not have time to return full time to a classroom for that update. Upon completion of the class, students will identify the improvement they made in applying their knowledge to topics covered during the course. To enroll call Pat at 939-3159.

## MAC COMPETENCY WEEK/INTRO TO MACINTOSH (40 hrs.)

5-11 February; Friday-Thursday, 0800-1600; Training Center. By: Human Interface Training

This 5-day hands-on, self-paced crash course is good for those new to the Mac or those who need to become competent fast! Class includes an introduction to Macintosh computing, Word 5.0, PowerPoint, Filemaker Pro, and Excel 4.0.

Presentation Method: Hands-On Workshop

Deadline: 27 January.

Enrollments are taken as first request received, first approved.

## MS-DOS, BEGINNING (8 hrs.)

9 February; Tuesday, 0800-1600; Training Center. By: Daryl Vaughn, C622

Intended Audience: Beginning users of IBM-PC or Zenith-Compatible Microcomputers.

This course is designed to provide the novice computer user with a basic understanding of how DOS manages hardware and software components, controls system operation, and directs input and output to and from peripheral devices. It includes a survey of file-storage techniques, operations commands, command structure, and utilities. Participants will learn how to use MS-DOS internal and external commands such as format, copy, diskcopy, dir, and chkdsk.

Presentation Method: Hands-On Workshop

Deadline: 26 January.

Enrollments are filled as first request received, first approved.

## MACINTOSH FOR BEGINNERS (8 hrs.)

17-18 February; Wednesday and Thursday, 0800-1600; Training Center. By: Marjorie Hunter,

## C6231

Intended Audience: Beginners with little or no Macintosh experience.

In this course you will learn to use the keyboard and the mouse to input information to the Macintosh, change software to suit the current application, view files and folders on a data disk, select and drag icons, open icons through the file menu, activate and close windows, use Desk Accessories such as Chooser, Finder, and Calculator, use the clipboard to transfer information, and use some typical applications packages such as a wordprocessor and/or a graphic program. (Applications to be surveyed may include MacWrite or Word, MacPaint, MacDraw, or MacDraft. This class will not be able to cover these applications in detail. The student is referred to other classes offered for specific applications.)

Presentation Method: Hands-On Workshop

Deadline: 10 February.

Enrollments are filled as first request received, first approved.

## WORD, BEGINNING (16 hrs.)

24-25 February; Wednesday and Thursday, 0800-1130; Training Center. By: Daryl Vaughn, C622

Prerequisite: Macintosh skills (create folders, launch applications, use clipboard).

Intended Audience: Beginning users of the Word program on the Macintosh.

In this course you will learn to use the Microsoft Word program to create documents; move text between files; add, change, and delete text; format text; spell check; paginate; print; and save documents.

Presentation Method: Hands-On Workshop

Deadline: 10 February.

Enrollments are filled as first request received, first approved.

## TQL PARTNERSHIPS: THE CUSTOMER-SUPPLIER RELATIONSHIP (8 hrs.)

17-18 February; Wednesday and Thursday, 0800-1600; Training Center. By: Steve Tuszyński

How can an activity truly achieve its objectives of increased performance, higher quality, reduced cost, and shorter lead times without considering its suppliers? Simply put, it cannot. Supplier performance is a major input into the overall quality of the producer.

This workshop discusses up-to-the-minute developments in customer-supplier relationships, both internal and external; recommends a set of over 50 strategies to achieve world-class customer-supplier performance; and outlines several implementation alternatives.

Topics include using team approach, creating a supplier council, conducting supplier-focused conferences, defining quality system requirements, benchmarking suppliers, documenting costs of poor quality, utilizing practical tools for electronic communication, developing preventative quality plans, requiring supplier feed-forward, and performing an annual partnership evaluation.

Note: Enrollments are on a call-in basis only. To enroll or ask questions, call 939-2686.

## HIV/AIDS IN THE WORKPLACE (3 hrs.)

24 February; Wednesday, 1300-1600; Training Center. By: COSAA/Gloria Delgado et al

This course meets the annual refresher for supervisory safety requirement. The course will address the problems associated with HIV/AIDS in the workplace, including confidentiality, universal protection, and employee/employer rights. The course will explain the ramifications of HIV/AIDS in 1992, and will emphasize that the disease is a heterosexual disease, which will eventually affect everyone in one way or another. It will provide information for both supervisors and employees and will discuss federal and state laws regarding HIV/AIDS and confidentiality.

To enroll, submit an On-Center Training Request to Code C62206. Point of contact is the Wellness Program Office, 939-2468.

## MISSILE GUIDANCE &amp; CONTROL (16 hrs.)

16-17 March; Tuesday-Wednesday, 0800-1600; Training Center. By: Dr. Titus, Consultant

## REQUIRED FOR ENROLLEES IN THE SEC PROGRAM

The principal objective of the course is to update practicing engineers on active, semiactive, and passive sensors as used in modern missiles and the application of control systems theory to the problem of missile guidance and control. The learning objectives for this course are:

- To achieve an understanding and develop models of the seekers used in the missile homing process and to give insight in the guidance equations implementation in modern missile systems
- To review control systems theory and develop missile airframe dynamics in terms of control systems model
- To achieve an understanding of the missile autopilot design problems.

Deadline: 2 March.

## PERSONAL ETHICS (4 hrs.)

8 February; Monday, 0730-1130 or 1230-1630; Training Center. By: George Gagliani

Intended Audience: All NAWC/NAWS employees.

This 4-hour workshop assists students in identifying situations that require an ethical position and understanding of how to make decisions that accurately reflect their personal moral standards. Participants will learn how to think through small or large decisions that may have ethical significance. Through case studies and group discussions, a "framework" for personal moral inquiry and decision making is constructed by each student.

Note: Enrollments are on a call-in basis only. To enroll or ask questions, call 939-2686.

## FACILITATION (8 hrs.)

8 February; Monday,



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## Ask our dermatologist about... 'moles'

A common concern to all of us in the Ridgecrest area is the risk of skin cancer. Recently, we had the opportunity to ask one of our local dermatologists Dr. Jeffrey Gunter, M.D. some questions about "moles".

### Are all moles dark in color?

Dr. Gunter says "that not all moles are dark in color." "Some may be skin colored and some may even have a reddish or bluish color." "Everyone has moles, often more than 30 or 40."

### Why are moles dark?

Dr. Gunter says "their color is created by the presence of specialized cells which produce a dark pigment called melanin." "In addition" Dr. Gunter stated "moles may darken at times, often following a pregnancy, during puberty, and following the use of certain steroid drugs."

### Why do I have moles and will I continue to get new moles?

Dr. Gunter says "moles are probably determined before we are born." "Most make their appearance during the first 30 years of a person's life. Dr. Gunter added "Ultimately over time, many moles will slowly disappear by seeming to fade into the skin."

### Do certain moles have a higher risk of becoming cancer?

Dr. Gunter says "recent studies have shown that certain moles do indeed have a higher than average risk of becoming cancerous." Dr. Gunter added "moles that

appear at birth (congenital nevi) fall into this group. This type of mole, when more than 8 inches in diameter, has an especially high risk of cancerous change."

What is a "melanoma" and what are some of the "warning signs" I can look for?

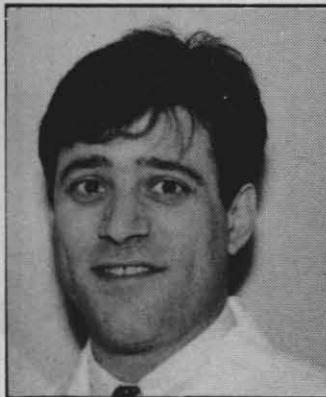
Dr. Gunter says "a melanoma is a potentially very lethal form of skin cancer. Moles which change, appear irregular in shape, have varied colors, are larger than a pencil eraser, or appear asymmetrical should be evaluated as these features can be the signs of melanoma." Dr. Gunter added "moles which itch can also be one of the early warning signs of melanoma."

### If I want a mole removed, how is this done?

Dr. Gunter says "a person may wish to get rid of a mole simply because it is bothersome and annoying or simply cosmetically undesirable. The most common methods of removal include a shave excision or an excision with a layered suture closure. Both modalities have their advantages." In addition, Dr. Gunter also states "most procedures to remove a mole take a relatively short period of time and can be performed in a dermatologist's office."

Dr. Jeffrey Gunter, M.D. is a board certified dermatologist and is an assistant clinical professor at the USC School of Medicine with a private practice in Ridgecrest. If you have any questions or concerns call 619-384-2592.

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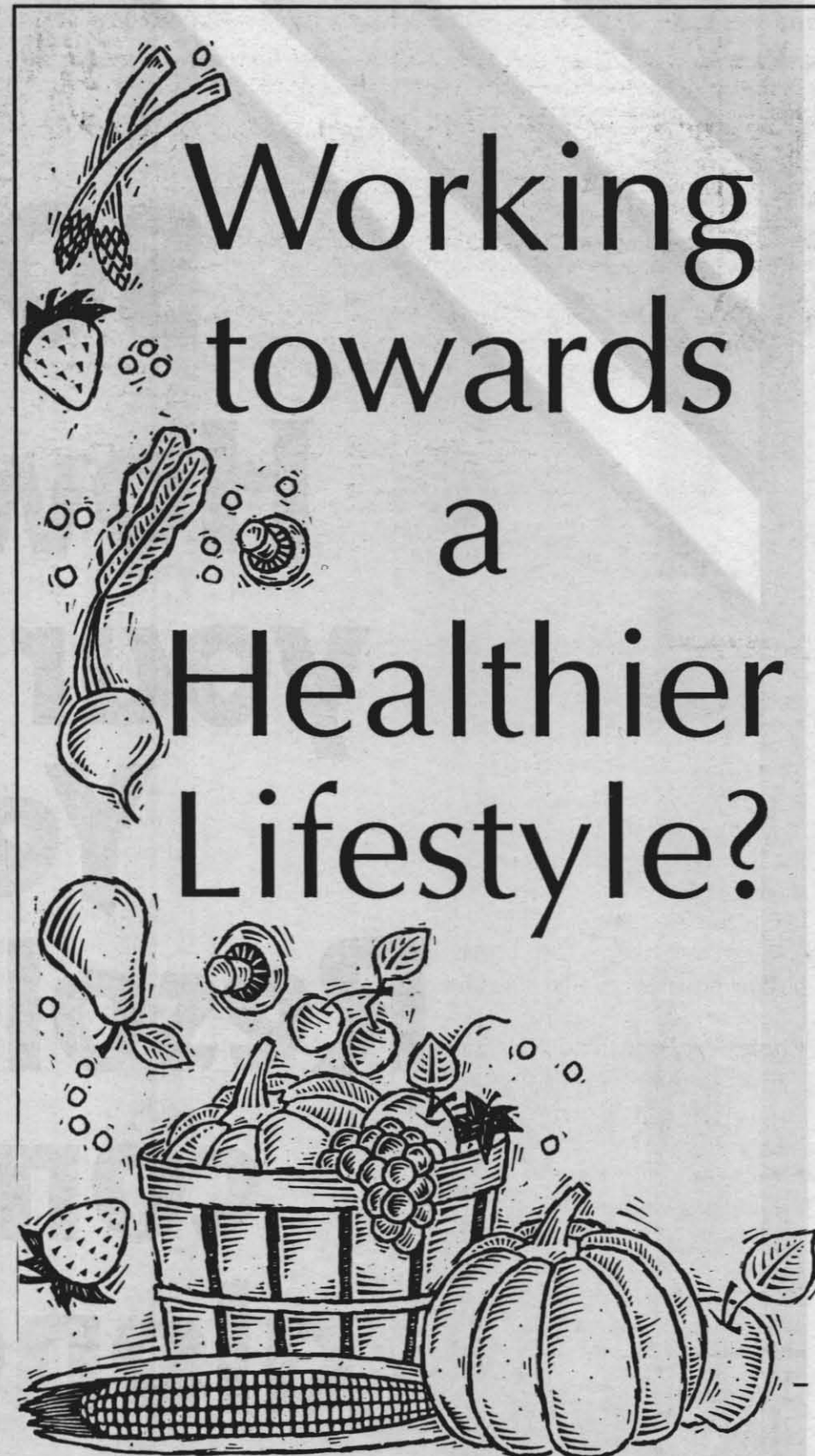
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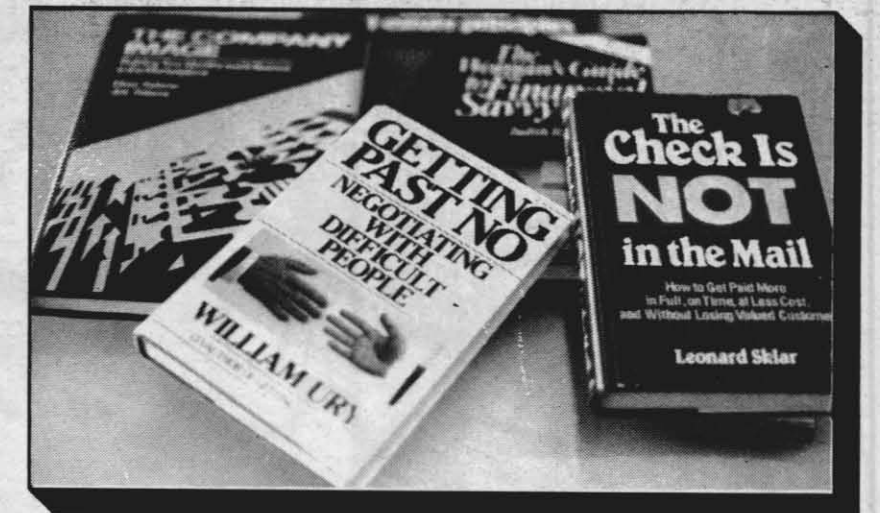


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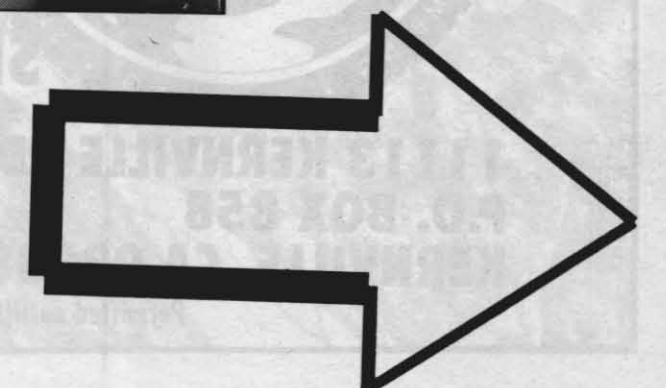
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## Enjoy the advantages of not being a couch potato!

There really is no mystery when it comes to staying in shape. It's simple: eat right and exercise. This goes for people of all sizes and shapes. Even thin people should be concerned about their diets and get regular exercise. The list of benefits to be gained from exercise may be longer than you think.

Besides burning calories, regular exercise can help you feel like a new person. According to the National Cholesterol Education Program, exercising for 15 to 30 minutes three times a week will: give you more energy, relieve stress, give you added strength to work and play harder and longer, firm muscles, and allow you to fall asleep easier. Thanks to exercise your body becomes a fine-tuned machine.

The benefits don't stop there. The National Cholesterol Education Program also advises that exercise helps fight heart disease and common health problems, too. Shaping up and staying fit helps you tackle problems like high blood pressure, high blood cholesterol, diabetes, and obesity. A healthy heart means a healthier life.

### Cholesterol doesn't discriminate

Everyone - even thin people - should be concerned about their intake of fat and cholesterol. The higher your blood cholesterol level, the greater your chances of getting heart disease. High blood cholesterol doesn't discriminate, either. It affects people of every ethnicity, males and

females, young and old, tall and short. And guess what? It can happen to you too.

### How high is your cholesterol?

Everyone should get their blood cholesterol levels checked regularly. According to The National Cholesterol Education Program, if your cholesterol level is 200 mg/dL (milligrams of cholesterol per deciliter of blood) or greater, it may be too high.

Most people can lower high blood cholesterol by changing the way they eat. This doesn't mean giving up all the foods you love. Instead, you can learn to prepare foods differently and eat certain foods less often and in smaller amounts.

For lowering blood cholesterol, remember: less is more. Eat less fat, eat less saturated fat, eat less of cholesterol-laden foods and, if you are overweight, lose weight. Another way to think of it is, more is less: eat more vegetables, eat more fruits and eat more grains.

Regular exercise and a proper diet is the key to a healthy life. It's easier to achieve than you may think, once you start. The hardest part is taking the first step.

For more information on exercise and diet as a method to prevent high blood cholesterol, write: The National Cholesterol Education Program, C-200, 4733 Bethesda Avenue, Suite 530, Bethesda, MD 20814

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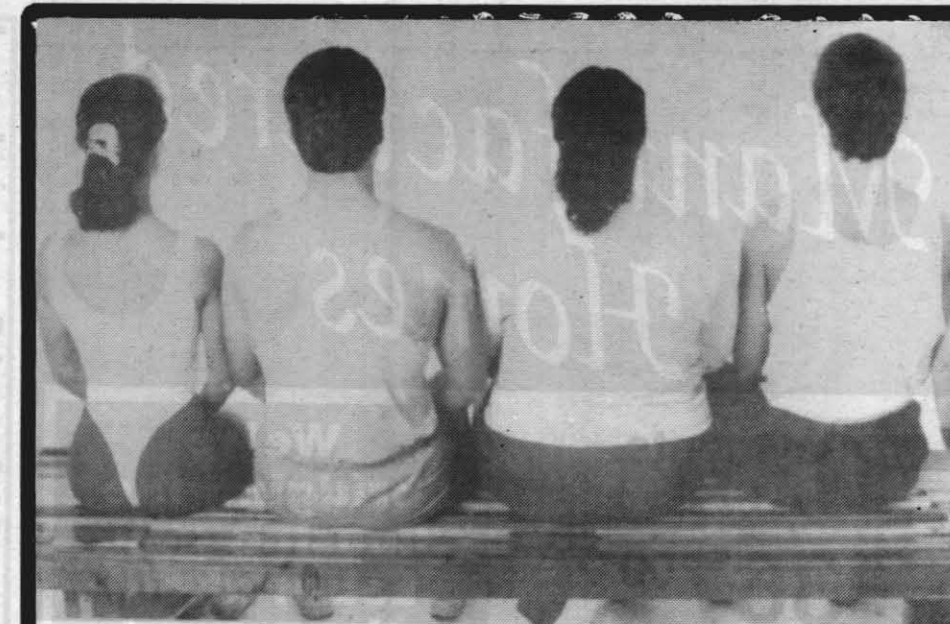
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### Exercise Benefits Everybody

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### Your home's interior is the ultimate reflection of you

The interior of your house is the heart of your home. It's an inevitable expression of you and your family. So, naturally you'll want to give it all the care and consideration you can, from floors and ceilings to lighting and sound.

The right color and texture of carpeting in your foyer of living room can really set the stage for the impression your home will make on friends and visitors. And don't worry, you don't have to be a millionaire to create the sort of ambiance you desire.

Do-it-yourselfers take heart. A few sewing skills and your own terrific imagination will go a long way in helping you complete your home decorating plans.

#### Set the mood

A beautiful and inexpensive way to attain the mood you want is through lighting. Whether dramatic or subtle, the right lighting can make a world of difference. It can accent artwork, spotlight an aquarium, or create a romantic atmosphere for that special evening. It's as simple as moving a lamp to a different corner of the room. Lighting can change the look, feel and mood of a room.

Home is where the heart is – and sometimes the hearth, too. With thermal mass stone fireplaces, you can bring a new twist to an old concept. A fireplace can be the focal point of the living or family room, especially on those blustery winter nights. Not only does it add warmth, but it adds beauty and gives the family a renewed feeling of togetherness.

From the type of music you choose, to how you deal with your recyclables, little by little, step by step, you can enjoy designing and maintaining the interior of your home as the mirror of your family's tastes and activities.

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