

# American Chamber Symphony to perform Tues.

Music lovers have a treat in store for them when the Los Angeles-based American Chamber Symphony performs at the Center theater at 7:30 p.m. Tuesday.

The 25-person orchestra is under the direction of youthful Nelson Nirenberg and features violinist Mischa Lefkowitz. Program selections are Tartini's Concerto No. 58 in F Major and the Concerto No. 5 in A Major for violin and orchestra by Mozart. The final offering of the evening will be Haydn's Symphony No. 60 in C Major, "The Absent-Minded Man."

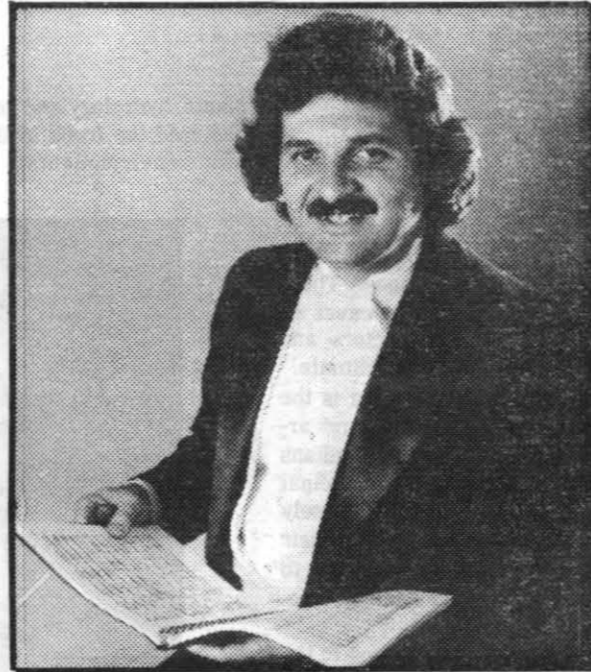
Nirenberg is regarded as one of the world's outstanding young music directors; he has won highest awards in many international competitions. Concertmaster and soloist Lefkowitz is equally outstanding. He won the 1985 Yehudi Menuhin Award, among other prizes, and is a member of the Los Angeles Philharmonic. He appears here under partial support with funds from the California Arts Council and the National Endowment for the Arts.

Single event tickets for this Indian Wells Valley Concert Association program are \$7 for general admission or \$5 for full-time enlisted military personnel and people over 65 or under 21.

Tickets can be purchased at The Music Man, Medical Arts Pharmacy, Maturango Museum and the Art Buffet in Ridgecrest. Tickets will also be available at the box office on the evening of the concert. Season ticket-holders unable to attend the concert are asked to release their seats by telephoning 375-5600.

Lefkowitz and piano accompanist Brent McMunn will present a student program the morning after the concert for local fifth and sixth grade students. This special 50-minute program will begin at 10 a.m. at the Center theater. Limited seating is also available to the general public.

There is no charge for the student program, which is provided as an educational service of the IWVCA. This is made possible by contributions to the Student Education Fund.



Conductor Nelson Nirenberg

# Art collection to be shown

China Lakers can take advantage of a special reception and private viewing of the selection from Dr. Armand Hammer's world renowned art collection at California State College, Bakersfield on Saturday, Feb. 7 in the Stockdale Room at CSB.

Sponsored by the Greater Bakersfield Chamber of Commerce Military Affairs Committee, the Military Day for the Hammer Collection will begin at 6:30 p.m. with a reception, followed by the private viewing from 8 to 9 p.m. Reservations are limited and can be made by calling the Chamber Office at (805) 327-4421. Tickets are \$10 per person.

Dr. Thomas Arciniega, CSB president, said the collection will be shown in the Todd Madigan Gallery on campus from Jan. 24 to Feb. 22. The Hammer Collection is coming to Bakersfield direct from an exhibition in the Soviet Union.

The art works in the selection include 25 impressionist and post-impressionist works by artists such as Van Gogh, Cezanne, Gauguin, Renoir and the American Mary Cassatt. Also, six paintings by the Old Masters, including Rembrandt's Juno and Gilbert Stuart's portrait of George Washington.

The exhibition is made possible by the Armand Hammer Foundation, Occidental Petroleum Corp. and the Dorian Society of California State College, Bakersfield.

# VIATEK viewing

NWC's Enlisted Mess Drydock Room will host the 1987 VIATEK Product Viewing on Jan. 29 from 9 a.m. to 5 p.m.

On display will be Micor-VAX and Q-Bus compatible board level products along with VME and Multi-Bus compatible board level products for commercial and military applications.



	Max	Min	Peak Gust
Fri.	42	24	29 knots
Sat.	51	19	15 knots
Sun.	59	20	8 knots
Mon.	61	27	31 knots
Tues.	55	36	27 knots
Wed.	60	16	6 knots
Thurs.	57	18	5 knots

All measurements are made at Armitage Airfield.

# Community Events

"New Tax Laws" will be the topic for the February 3 meeting of the China Lake Post, Society of American Military Engineers. Harold Manning from Burkey and Cox Accounting Corporation of Ridgecrest will be the speaker at the lunch meeting, which will be held at the Commissioned Officers' Mess starting at 11:30 a.m.

Menu choices are either a chef salad or a steak sandwich; both choices are \$5.25 for SAME members and \$5.75 for non-members. Reservations are required and must be made no later than Thursday, Jan. 30 by telephoning Sam Miller, 3411, ext. 287.

Highlighting a special Father/Daughter Valentine's Day dinner for fathers and their young ladies (from pre-school to sixth grade) will be the outstanding performance of professional magician Eugene Silvers and his delightful magic show.

The dinner will be held at the Enlisted Mess on Friday, Feb. 13 from 6 to 9 p.m. Dinner special for the evening will be spaghetti, garlic bread, salad and chocolate sundaes. Cost for the evening, including the show, flower, picture and dinner, will be, for couples, \$15 for active duty military, \$16 for DOD civilians and retired military and \$17 for private citizens. Tickets can be purchased at the door for an additional 50 cents per couple.

Tickets can be purchased at the Information, Ticket and Tour Office during regular business hours, Mondays through Fridays from 9 a.m. to 5 p.m.

Soup (homemade — the very best kind) and salad from the salad bar at the Commissioned Officers' Mess is a great way to eat a nutritious lunch for the low cost of only \$3.25. The soup and salad bar is open from 11 a.m. to 1 p.m. daily. All government employees are invited to drop by the COM for a great meal.

Another Beef and Burgundy Dinner will be featured at the Commissioned Officers' Mess next Friday. Enjoy an all-you-can-eat (and drink) dinner of Steamship Round, wine, plus a giant salad bar for only \$7.95. Reservations are required by Wednesday (Jan. 28).

Prime rib or white fish will be the special at the Chief Petty Officers' Mess tonight. Dinner will be served from 5:30 to 9 p.m.

Disco to the "Sound Waves" at the Enlisted Mess tonight from 9 p.m. to 1 a.m. Admission is free.

Jan. 25 is Super Bowl Sunday at the Enlisted Mess. For only \$5 admission, enjoy the game on a large-screen TV while enjoying a delicious deli buffet.

Wednesday's night DJ at the Enlisted Mess will be Ted Lemon of "Sound Waves." Dance to popular tunes from 8 to 11:30 p.m. for only \$1 per person.

Friends of the Ridgecrest Library will hold an organizational meeting of that group on Thursday at 7 p.m. in the conference room of that library, 131 E. Las Flores, Ridgecrest. Eloise Nelson of the Kern Library Friends will be a guest speaker.

Anyone interested in supporting and improving local library services in Ridgecrest is welcome to attend. Further information about the group can be obtained by telephoning Imelda Nee at 375-5436.

"Secrets of Searles Lake — from Brine to Bicycles, Bottles and Baking Soda," is the new Saturday adventure to be presented tomorrow from 3 to 4 p.m. at the Maturango Museum. The program is open to "children of all ages" and will focus on how Searles Lake chemicals are used to produce such items as ceramic tile, gypsum wall board, clothing, soaps, cleansers, bicycles, bottles and baking soda.

Margaret Cothran, a former teacher, will make the presentation in the new museum building, 100 E. Las Flores in Ridgecrest.

# Swap meet

NWC's Recreational Services Department will sponsor the second of its monthly Swap Meets on Saturday, Feb. 7 at Bennington Plaza's parking lot. The sale will be held the first Saturday of each month.

Anyone interested in selling need pay only a \$3 fee which covers sales space and publicity. The sales lot will be open from 8 a.m. until 1 p.m. Buyers can table hop rather than go yard sale hopping throughout the town, saving time and gas money.

Space rental information is available at the Information, Ticket and Tour (ITT) Office, NWC ext. 2010, Monday through Friday from 9 a.m. to 5 p.m.

NWC HOTLINE  
Integrity, efficiency program  
Call: NWC ext. 3636 (24 hrs.)  
or call the Inspector General at:  
(800)522-3451 (toll free)  
288-6743 (Autovon)  
(202)433-6743 (commercial)

# Movies

FRIDAY, SATURDAY	"SOUL MAN"	JAN. 23, 24
	Starring C. Thomas Howell and James Earl Jones (Comedy, rated PG-13, 105 min.)	
SUNDAY	"TWELVE MONTHS"	JAN. 25
	(Animated, rated G, 64 min.)	
MONDAY	"AGNES OF GOD"	JAN. 26
	Starring Jane Fonda and Anne Bancroft (Drama, rated PG-13, 99 min.)	
WEDNESDAY	"OUT OF BOUNDS"	JAN. 28
	Starring Anthony Michael Hall and Jenny Wright (Drama, rated R, 92 min.)	
FRIDAY	"SHANGHAI SURPRISE"	JAN. 30
	Starring Madonna and Sean Penn (Adventure/Drama, rated PG-13, 97 min.)	

Starting Time: Evening 7 pm

(G) ALL AGES ADMITTED  
General Audiences  
(PG) ALL AGES ADMITTED  
Parental Guidance Suggested  
(R) RESTRICTED  
Under 17 Requires Accompanying  
Parent or Adult Guardian

★ U.S. Government Printing Office:  
1987 — No. 40039

FROM \_\_\_\_\_

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TO \_\_\_\_\_

# LNI Gorden chosen as NWC's Sailor of the Year

Called a "superb professional" by his supervisor and one of four sailors at the Naval Weapons Center to attain Sailor of the Quarter honors during 1986, Legalman First Class William H. Gordon has been selected NWC's Sailor of the Year for 1986.

Command Master Chief ABCM Larry Duysen said the first class petty officer was designated Sailor of the Year by a Center-wide selection board of a master chief and three chief petty officers late last week.

LNI Gordon is assigned to the Discipline

Office of NWC's Military Administration Department as the command legalman. He has been on board the Naval Weapons Center since April of 1986. "I was shocked and surprised at the selection," said LNI Gordon.

Lt. J.g. M.M. Vanderkamp, LNI Gordon's supervisor, when nominating him for Sailor of the Quarter said, "Petty Officer Gordon has been instrumental in providing excellent legal assistance to the personnel aboard the Naval Weapons Center. The coordination he provides between the Legal

Services Office at Port Hueneeme and the command is complete, concise, professional and effective."

The desert has been a good home for Petty Officer Gordon, his wife Chris and their six-year-old son, Robert. They have been busy enjoying the variety of entertainment and recreation opportunities offered by the area. In fact, Gordon said they hope to return to the area after he retires from the Navy in several years.

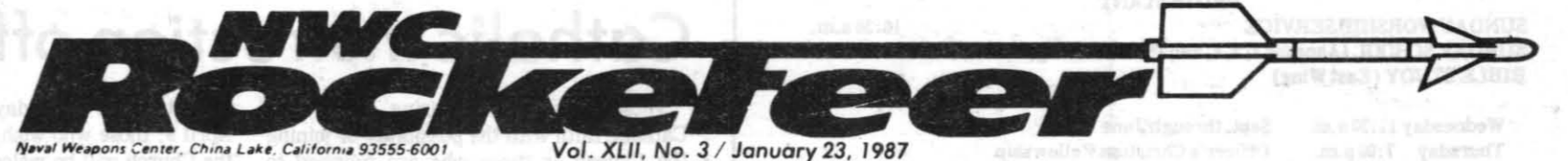
The 15-year Navy veteran came to NWC from a three-year tour of duty with the

Naval Legal Services Office in Naples, Italy. He noted he spent his first year in the Navy as a yeoman before converting to the challenging legalman's rate.

There is nothing boring about duties as a legalman for a command like the Naval Weapons Center. "It's always very interesting," noted LNI Gordon, of his Naval career as a legalman.

When he was selected as Sailor of the Quarter, Petty Officer Gordon was credited with having been able to process report

(Continued on Page 3)



Naval Weapons Center, China Lake, California 93555-6001

Vol. XLII, No. 3 / January 23, 1987

# Stewardship of land presents exciting challenge

## Many laws, regulations and directives apply to resource management

With one-third of all Navy lands belonging to NWC, concerned stewardship of these lands and their resources is a real challenge to Dr. Tom McGill and the dozen or so anthropologists, biologists, engineers and technicians in the Environmental Branch of the Public Works Department.

The Naval Ordnance Test Station (now NWC) was established in the Mojave Desert because it was seen as a desolate, isolated area. Despite its not being heavily populated, however, the desert was and still is rich in both natural and cultural resources. These resources are protected by a wide range of laws, regulations and directives with which the Center must comply; Dr. McGill and his personnel are tasked to ensure such compliance.

Probably the most dramatic instance of efforts made by the Navy to protect the natural resources of the desert was the major burro removal program that began in 1979. Burros, not native to the area, had been involved in such a population explosion that they were threatening the habitat of many other wildlife as well as proving a major hazard to human safety by straying onto the runways at the airfield and Center roads.

The burro removal program resulted in more than 8,000 being taken from Center lands. Since this meant that water and food were now available for native species, the Center has joined with other agencies in re-establishing bighorn sheep on Navy lands where they roamed naturally for eons.

Also being removed are wild horses — horses that either escaped from ranchers or Indians or were turned loose by them.

The horses do not pose the threat to other species that burros did because they have different eating and drinking patterns and because the horse population doesn't grow as rapidly as the burro population did. However, their numbers have still exceeded the capability of the range resources.

So far more than 1,500 horses have been captured and removed and Dr. McGill estimates that there may be as many as another 1,500 yet on the north range; another removal will be carried out in conjunction with the Bureau of Land Management early this year. Both horses and burros are released to various humane groups, who run adoption programs for these animals. Horses from the Navy's land can also be adopted directly from BLM.

Of particular concern also are endangered, threatened or protected species native to the area, such as the Mojave ground squirrel. Biologists estimate that a large portion of the total remaining population of these charming creatures lives a

sheltered life on Center lands.

Not native to China Lake is the Mojave chub, an endangered fish species whose total remaining number were at Zzyzx Springs until the 1970s, when some of the chubs were removed to 14 different locations in an effort to save the species.

Around 400 chubs were placed in the Lark seep on the Center's inner range — and have multiplied to an estimated more than 100,000. Since the chubs are covered by special laws relating to endangered species, Center biologists are required to exert special effort for their protection.

Surveys to determine what animals, birds and insects actually call China Lake lands home are ongoing at all times. "Only if we know what species we've actually got

here and how many of each can we tell what good stewardship requires us to do," says Dr. McGill.

The variety and amount of animal life is astounding, he notes, adding that more than 237 varieties of birds alone have been identified.

The flora (plant life) of the area is also of great interest, he adds. For example, Dr. Frank Vesek of the University of California at Riverside is a world authority on creosote rings; he has studied living creosote plants at China Lake that he has correlated through a carbon-14 dating method as being from 6,000 to 10,000 years old.

A creosote plant propagates at its edges. As the inner portion of the plants die, the

creosote plant grows outward in a ring-like fashion and some of the very ancient creosote plants found have a growth diameter in excess of 30 feet.

Man-made resources on board Navy lands are also covered by many laws and regulations. There protection is in many ways more critical than natural resources, because they are not renewable. Once damaged or destroyed, they are gone forever.

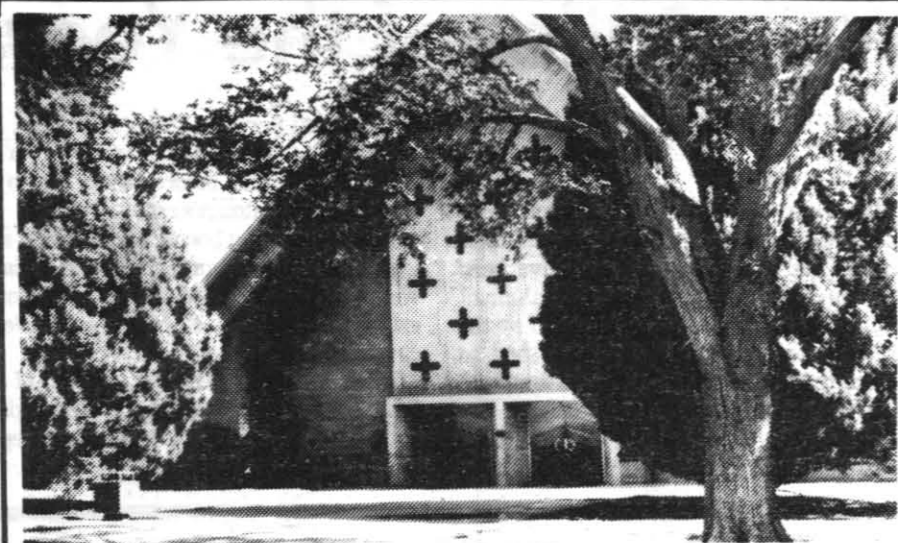
Both Little Petroglyph and Big Petroglyph Canyons are national registered historic landmarks. Anthropologists from throughout the world have come to the local area to study these drawings incised into the rocks. The variety of figures that seem

(Continued on Page 7)



RANCH RUINS — Farming and ranching near the existing SNORT facility existed before the Navy came to

the Indian Wells Valley during World War II to create the Naval Ordnance Test Station.



## Divine Services

**PROTESTANT**

**SUNDAY WORSHIP SERVICE** 10:30 a.m.  
**SUNDAY SCHOOL (Annexes 1, 2, 4, and the East Wing)** 9 a.m.  
**BIBLE STUDY (East Wing)**

Wednesday 11:30 a.m. Sept. through June  
 Thursday 7:00 p.m. Officer's Christian Fellowship  
 Christian Military Fellowship  
**ROMAN CATHOLIC**

**SUNDAY MASS** 9:00 a.m.  
**CONFESSIONS (Sunday)** 8:15-8:45 a.m.  
**COMMUNION SERVICE (Monday)** 11:35 a.m.  
**DAILY MASS (Tuesday through Friday)** 11:35 a.m.  
**CONFESSIONS (Friday)** 4:30-5:00 p.m.  
**RELIGIOUS EDUCATION CLASSES (Sunday)** Sept. to May 10:30 a.m.

**JEWISH**

**WEEKLY SERVICES (Friday, East Wing)** 7:30 p.m.  
**ADULT EDUCATION (Saturday, Annex 4)** 9 a.m.  
**RELIGIOUS SCHOOL (Sunday, Annex 4)** 1 p.m.

Chaplain J. Milton Collins, Capt. CHC USN  
 Chaplain A. J. Smith, Cdr. CHC USN  
 Chaplain C. R. Beede, Lt. jg. CHC USNR  
 Hearing impaired equipment available. Nursery available.  
 Phone NWC ext. 3506, 2773

## Organ concerto to be played

With Shirley Helmick at the triple manuals of the All Faith Chapel organ, Handel's "Organ Concerto No. 13 in F Major" will be the featured work in the Desert Community Orchestra concert Sunday at 3 p.m. in the All Faith Chapel.

Other selections that will be played will be Paul Dukas' "Fanfare pour preceur 'La Peri,'" the "Funeral March" from Richard Wagner's "Die Gotterdammerung," "Serenade for Winds" by Richard Strauss and Wolfgang Amadeus Mozart's "Serenade No. 13 in G Major," better known as "Eine kleine Nachtmusik."

Members of the Indian Wells Valley Association for Retarded Citizens will be

guests of the Desert Community Orchestra Association for this concert.

Regular single-concert tickets will not be sold at the door for this second concert of the DCOA season; concertgoers without a season ticket will instead be invited to make a donation to the All Faith Chapel (regular single-concert admission is \$6, reduced to \$4 for students, senior citizens and active-duty military personnel).

Season tickets for this and the other two series concerts in March and May are available at \$15 for individuals and \$26 for families. Anyone interested in purchasing a season ticket is invited to telephone Bill Werback at 375-5204.

## Catholic instruction offered

Those who are inquiring about the Catholic faith with the possibility of joining the Church or those who are married to Catholics and would like to have a better understanding of the beliefs of their spouse and children (whether or not they intend to join the Church) are invited to attend a class of religious instruction sponsored by the All Faith Chapel.

The class will begin at 7 p.m. Thursday, February 5, at Chapel Annex 4. It will con-

tinue to meet Thursday evenings through April 9; those who wish to be received into the Church will be welcomed at the Easter Vigil on April 18.

The course is an overview of Catholic beliefs and practices. It would prove helpful for anyone who needs a refresher course in the Catholic faith.

Anyone wishing to pre-register can do so by telephoning the Chaplains' Office at NWC ext. 3506.

## Prayer Breakfast set Feb. 5

**Capt. Burt scheduled as guest speaker**

Thursday, February 5, has been designated as the day for the National Prayer Breakfast. The Center's breakfast will be held at the Enlisted Mess, starting at 6 a.m. and everyone is invited to attend.

Speaker at this year's Prayer Breakfast will be Capt. John Burt, NWC Commander,

whose theme will be "Two or More."

Tickets for the breakfast are \$3.50 per person. They can be purchased at the Chapel office, from the Command Master Chief of both NWC and VX-5 and in Ridgecrest at the Maranatha Bible Bookstore and at Desert Auto.

## NWC coffee mugs go on sale

NWC coffee mugs are now available for those who like to proclaim proudly where they work. These can be purchased from the Craft/Hobby store for only \$3 each.

Anyone wanting to buy one of these ceramic cups can either stop by the Craft/Hobby center or can order one by telephoning NWC ext. 3252 or 2942.

## Terry Rowell is REAL long time China Laker

Terry Rowell, a computer specialist working with database management systems in the Information Systems Group, considers herself a long time China Laker — with good reason. She was actually born on board in the old Dispensary.

Her parents were early timers at what was the Naval Ordnance Test Station. Her father had been a Marine at China Lake before becoming a civil servant; her mother also worked for the Navy, retiring after a 37-year career. In the late 1940s civilians as well as military were entitled to medical care at the Navy Dispensary because it was the only medical facility in the area. When young Terry made her debut into the world, it was in what is now the Aerosystems Building at Nimitz and Hussey.

A Burroughs High School graduate, she then went to Bakersfield Junior College and Grossmont in San Diego before returning to the local area and going to work on board.

"I started work as a GS-2 telephone operator — and I was so excited at being able to work here," Mrs. Rowell recalls. After about a year at that job, she became a payroll clerk before moving to the Person-

nel Department as a personnel clerk.

While in the Personnel Department, she became interested in data processing and switched to the data processing group in that department. "That was a very good experience," Mrs. Rowell adds, "because I was punching in the information from personnel actions for personnel all over the Center and it gave me a lot of insight into what was happening on board."

This inspired her to learn more about the hardware of a computer operation to see what was actually going on at the other end. A job switch took her to the computer division in the Research Department where she became a computer operator for the mainframe Sperry UNIVAC computer.

"I enjoyed the work," she recalls, "but it was terribly noisy because of all the hardware."

A growing interest in various aspects of computers caused her to move once again, this time to work with management information systems in the Weapons Department.

"This was a great experience," Mrs. Rowell adds. "I got to see how a large, well managed technical code works. I enjoyed

that job, but I wanted to learn more about management information systems and decided to switch to my present job. I think NWC is great because it is possible to make such job switches so that one can learn and grow professionally."

When she's not working, she and her husband Dennis (whom she also met here) and daughters Andrea, 16, and August, 9, like to go camping and snow skiing as well

as playing tennis. "I'm also an avid shopper," Mrs. Rowell adds.

This summer she'll have quite an event to shop for. She is on the committee organizing the 20th reunion for the Burroughs class of 1967, to be held July 11.

"It'll be great to see everyone again," says Mrs. Rowell. "The area is getting big enough now so that I don't often even see those still living here."



**RIGHT WHERE SHE STARTED** — Terry Rowell is especially pleased to be working for NWC since she was actually born in the old China Lake dispensary. — Photo by PH2 Rick Moore

## Environmental Branch watches resources . . .

(Continued from Page 1)

to be of animals, men and symbols is enormous, but the most common theme is the bighorn sheep, followed by drawings of other animals or man-like figures.

Probably not as ancient as these are pictographs (drawings on rocks) found in various locations on the ranges. These located both in the open and in caves or shelters where Indians, prospectors and miners took refuge from the harsh climate.

Sacred to the Indians of the area is the Coso Hot Spring area. Historical and archaeological sites can be found and Indians to this day use the hot springs for medicinal purposes. The Navy has worked closely with Indians of Inyo County to protect their sacred sites and to permit them access to Navy land for religious and healing ceremonies.

Residents of lands that now belong to the Navy were not always so friendly to Indians. Found in the Cosos also are the remains of a small stone fort built in the 1960s to protect the miners from Indians.

Coso Village, lying in the far north range area, was founded by Dr. Darwin French in 1854 and had residents until the early years of this century. Other miner's shacks and residences can also be found where these optimistic souls tried their luck at making a major strike (none did).

While the sites of Indian habitation are not as obvious to the layman as miner's shacks, many such sites exist. Again, federal laws and regulations cover what degree of protection must be extended to these, laws that the Navy is careful to follow.

Equally requiring protection are the elements necessary to keep the Center operational: water and air quality and the proper disposition of toxic waste materials.

Water quality is of prime importance to any population. Without adequate water, no community or establishment can survive in the desert.

Engineers and specialists working in the Environmental Branch coordinate the Center's concerns at ensuring that groundwater not become polluted. NWC is working closely with the regional regulatory agencies to bring the Navy into compliance with all requirements as these are established.

Toxic waste and its disposal has been the biggest man-made problem. Until recently, the role of toxic wastes and their power to create havoc with water and air quality had not been well understood. Consequently, today it is necessary to clean up areas where such wastes had been dumped in the past. NWC, for instance, is now involved in a major clean-up of jet fuel that had been dumped at the airfield that might pose a threat to water quality in the future.

Dr. McGill emphasizes that an awareness of proper removal of toxic wastes and the differences in handling of toxic and industrial wastes is essential to the future of the Center.

Specialists on his staff are available to consult with scientists and engineers on board who have questions about such materials. He adds that it's very important to know the content of toxic materials before they are either removed for storage prior to disposal or disposed of.

Air quality is just as vital for the Center's operations. NWC is very active in working with other groups on a regional basis — and especially with other high desert military establishments in the R-2508 air space — to try to keep visibility from deteriorating further. China Lake and Edwards need a minimum of 50 miles visibility for weapons and aircraft tests.

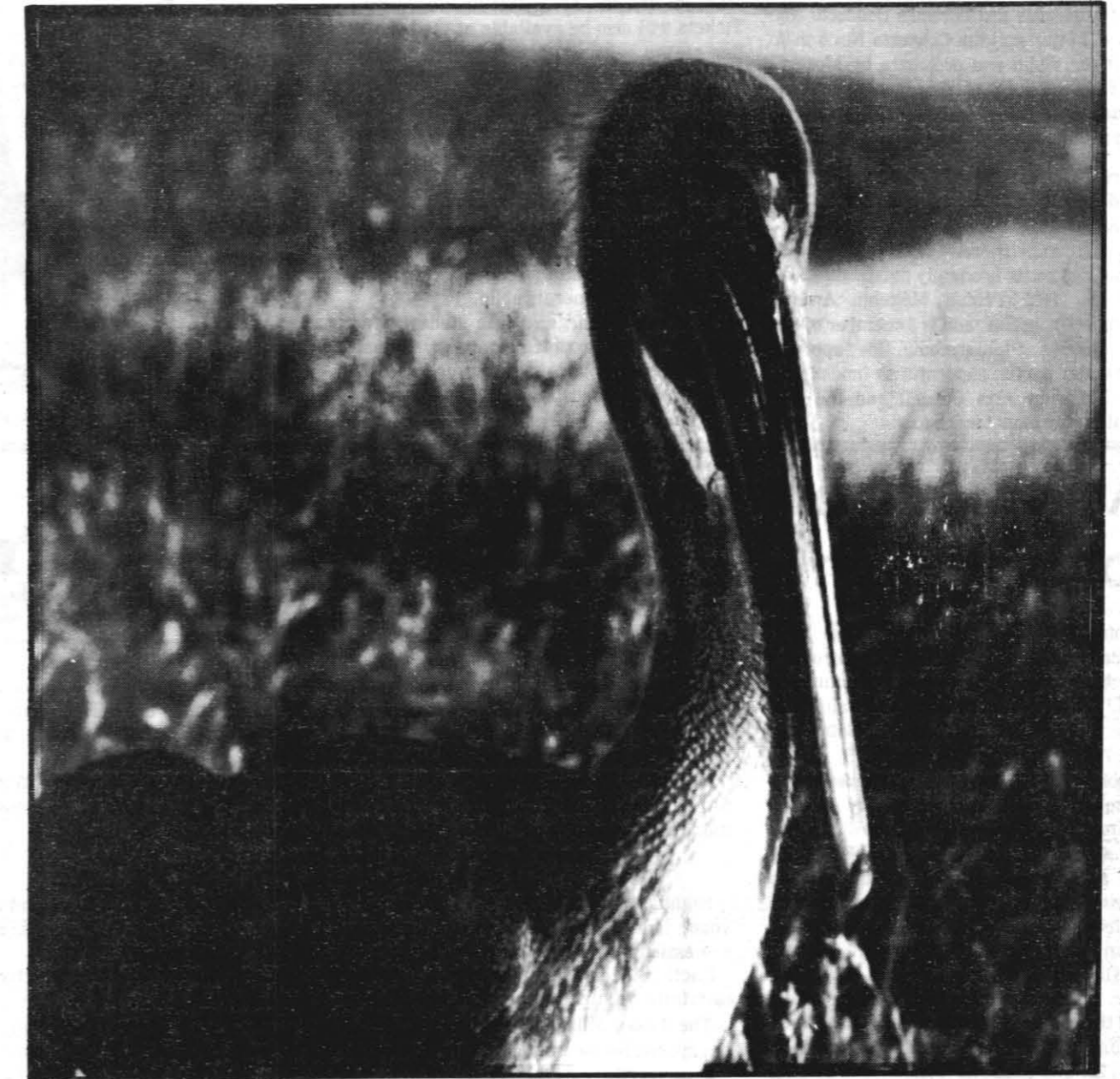
The number of groups with which the Center is coordinating air visibility needs is typical of its environmental programs.

As well as working with federal, state and local governmental groups, the Center has permitted university and college classes and individuals to study wildlife,

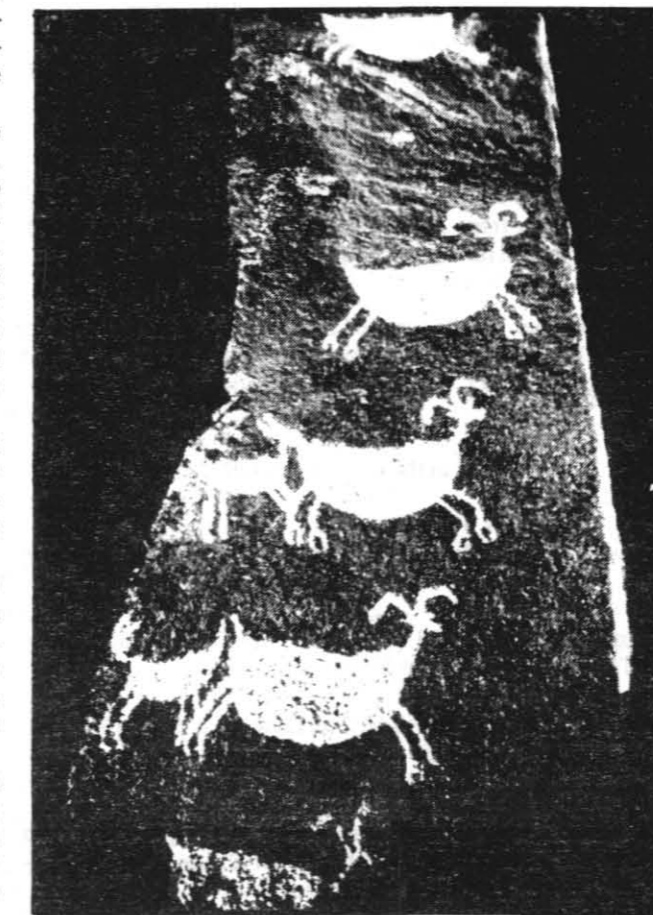
plants, hydrology and geology on board and has used the fruits of their research in its own environmental activities. Other

organizations such as the Desert Bighorn Council have also worked closely with members of Dr. McGill's branch.

"It's in all our interests to work together to protect the environment," he says. "We all benefit from the results."



**NWC VISITOR** — This brown pelican is one of many birds found visiting NWC. This one was seen at Lark Seep. Geese, ducks and gulls are also frequent fly-in visitors.



**PETROGLYPHS** — NWC lands abound with signs of early man including petroglyphs and pictographs in remote canyons of Center ranges.



**EARLY SETTLEMENTS** — This building at Cole Springs is a remnant of the early days of prospectors and fortune seekers in the Indian Wells Valley.

**NWC Rocketeer**

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 Associate Editor

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 Staff Photographer



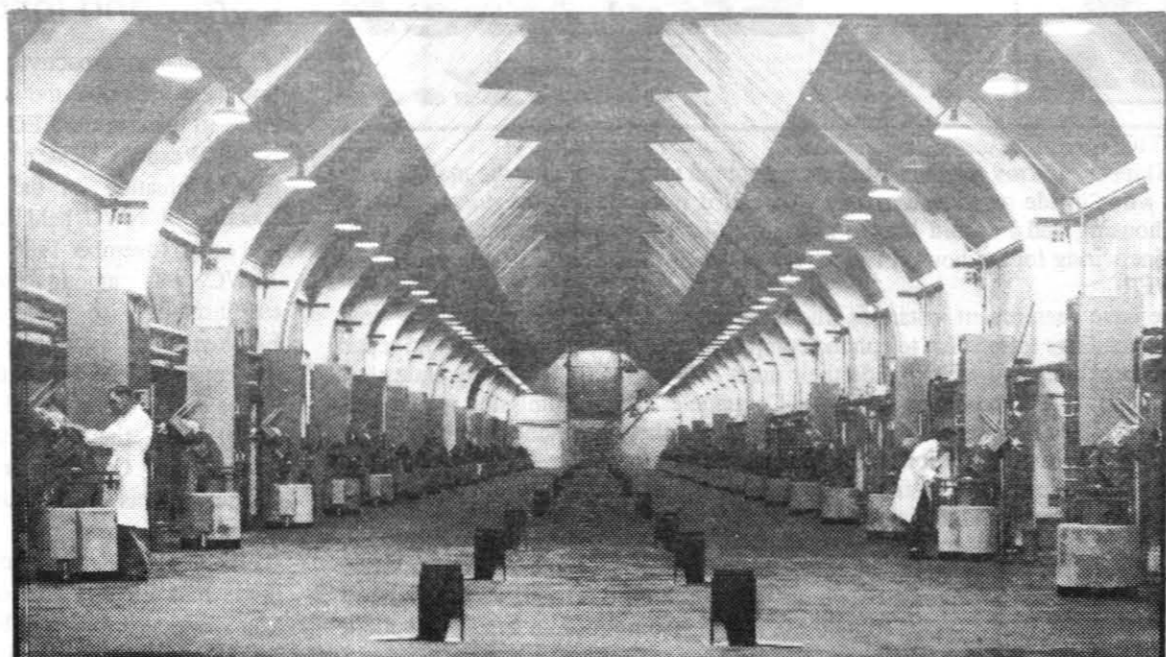
# Thompson Lab's mission changed as NOTS did

Although actual construction of the 22,869-square-foot Thompson Aeroballistics Laboratory was completed in 1950, equipping it and getting all cameras aligned properly took several additional years.

Cameras were mounted in the building to photograph scaled down models of rockets that were test flown so that their aerodynamic properties could be determined. To properly accomplish this, the whole building and camera mounts needed to be surveyed to a fraction of an inch so that precise measurements of photos taken of rockets in flight would yield meaningful data.

The laboratory was in operation by the time that Dr. Thompson left China Lake in 1951; when he returned for NOTS' 13th birthday celebration on Nov. 9, 1956, the aeroballistics laboratory was formally dedicated and named after him.

As the work of NOTS changed, the cameras in that building were removed and the building was rehabilitated for the laboratories and office spaces now found within its walls. The laboratory dedication plaque that has been removed from the Thompson Laboratory during the rehabilitation process was located in 1983 and was affixed to a large rock outside the building in July of that year.



## China Lake Police Reports

A government vehicle backed into a civilian vehicle at the auto hobby shop. No injuries occurred. +++

A hit-and-run accident happened in the BEQ parking lot. An unknown vehicle hit a rental car parked in the lot and caused minor damages to that vehicle. +++

When a father tried to give medication to his daughter against the will of his wife, the wife called police. The woman became hysterical and assaulted police officers, so she was incarcerated. +++

A bicycle was reported stolen from the bike rack at BEQ 3. +++

A 13-year-old who was riding a motorcycle in the desert east of Halsey Road lost control of his bike. He was transported to Ridgecrest Community Hospital by NWC ambulance for treatment of his injuries. +++

On Saratoga Avenue the rear door of a residence was forced open, but nothing was apparently taken. +++

The Kern County Sheriff's office requested assistance from China Lake police to recover property from the housing area that had been stolen and brought aboard the Center. +++

A blue Chevy pickup truck was hit by an unknown white vehicle while it was in a parking lot east of Dibb Road. Since white paint was left on the blue truck, undoubtedly there will also be blue paint on the white vehicle that hit it. +++

While on patrol, a China Lake police officer observed an individual in violation of the vehicle code, stopped the driver and while checking for outstanding warrants, discovered that there were outstanding warrants from Orange County. He arrested the individual, who was then booked into jail in Ridgecrest. +++

# Skipper talks of challenges at Kern conference

Nearly 8,000 military, Department of Defense civilians and contractor personnel and a budget of \$623 million will join this year to accomplish the Naval Weapons Center mission, according to Capt. John Burt, NWC Commander.

Capt. Burt discussed the Center as he joined other distinguished speakers at the annual Board of Trade Business Outlook Conference in Bakersfield Wednesday. A capacity audience of about 2,000 persons heard this group present the economic outlook for Kern County for 1987.

Capt. Burt noted that over 3,500 tests were conducted on NWC ranges in 1985 and again in 1986, with even more tests expected in 1987 to meet the Center's goal of providing the best weaponry to the nation's

sailors and Marines.

During fiscal year 1986, the Center's budget was \$607 million. Over \$316 million was budgeted for RDT&E. Of that, \$173 million went to government labor and support and \$297 million to contractor labor. About \$75 million of contracting money was spent in Kern County.

Currently, the Center is projecting \$48 million for construction over the next five years.

A new challenge has been presented to NWC this year, Capt. Burt told the capacity audience at the conference. This is managing to payroll.

"We at NWC see it as an opportunity to make us more efficient, which will increase our productivity and provide more bang for

# More aggressive battle against smoking urged in message from DOD

Assistant Secretary of Defense (Health Affairs) William Mayer has recently written the service secretaries about smoking. His message: DOD must get "more aggressive in eliminating this serious hazard to health and military readiness."

According to Mayer, Secretary of Defense Caspar W. Weinberger has completed a review of proposed goals and objectives for the DOD smoking reduction program. Weinberger stated that the five-year goal should be to reduce active duty smoking and other tobacco use to levels significantly below civilian rates. Currently, 47 percent of military personnel smoke, compared to 30 percent of the general population. The military rate is down from more than 52 percent a few years ago.

"Military personnel, charged with the demanding tasks and obligations of national defense, must meet a more rigorous standard of health and fitness beyond that expected of civilians," Mayer told the service chiefs. He said the

Secretary of Defense wants active duty smoking rates to be cut by 10 percent year. Up to now, the services' goal was to reduce smoking by 5 percent year.

Mayer said the services should also direct anti-smoking efforts toward military family members, "because of the strong relationships between active duty member smoking and family smoking patterns."

Mayer said accomplishing these high program expectations would require each service to use every reasonable means available to encourage non-smokers to continue not to smoke. He called for stepped-up education and motivation efforts for recruits and reinforcement of the non-smoking message at change-of-assignment orientations and during all military training programs.

Smoking cessation programs are important, said Mayer, but the anti-smoking program goal cannot be met unless the services encourage members and their families to make the commitment to never start in the first place.

the taxpayer's buck," Capt. Burt continued.

He added that one of the long range effects of this system will probably be a stabilization of the work force at a time when the amount of work is increasing. "One of the solutions to this dilemma will be an increasing need for contractor support," the Skipper said.

Along with the demand for weapons that the Center meets, Capt. Burt noted that natural resource conservation was a concern.

A 20-percent reduction in energy use over that used in 1975 was achieved this year. In addition, a large electrical generating plant will be on-line at the geothermal site by mid-1987 to make NWC electrically energy

self-sufficient.

The Center is also concerned with how achieving its mission affects the land, air and water in this part of California and with legislation dealing with natural resources.

Capt. Burt continued that "Our scientists are also investigating what effect earthquakes and volcanic activity will have on the Naval Weapons Center. NWC wants to be ready for the inevitable and we want to be sure that the Center and the surrounding area survives with little inconvenience to both."

He concluded with "Kern County, you have every right to be proud of the very significant contribution you are making to the national defense and we at China Lake are proud to be a part of your team."

# Scouting plays important role for Ens. Ken Black

When Ens. Ken Black takes off the Navy khaki he frequently replaces it with another uniform, that of Cub Scout Pack 341's Cubmaster.

His duties as NWC Targets Maintenance Officer take up a lot of time, but there are always a few more hours in the day in which he can be involved with the young people of this community.

An Eagle Scout when he was a junior in high school, Ens. Black takes charge of 56 boys, six to 11 years of age and 30 adult volunteer leaders when he acts as Cubmaster.

Pack 341 took first place and won the President's Award when Indian Wells Valley scouts held their annual Scout-o-Rama last year. The pack also won third place honors in their class during the Ridgecrest Christmas Parade.

"If the kids are happy and bubble about Scouting at home, I don't have to recruit the parents; they want to be involved in activities their kids enjoy so much," commented Ens. Black. He noted they got 93 people, kids, parents, other family members and friends to take part in Project Community Pride this year.

"Scouting is changing; they've lowered the age kids can first get involved to six. Now we can get them into Boy Scouts about the same time they start school. Kids that age have a lot of spare time ... Scouting gives them a way to fill some of that time," he added.

When Ken Black talks about Scouting, he

talks about something that he rates right up there with his family and the Navy, two other big loves of his life.

After reaching the coveted Eagle Scout goal in high school, he notes there seemed, for a while, little for him left to do in Scouting. While assigned to NAS Lemoore a few years ago he was asked to take on Cubmaster duties on just a temporary, fill-in basis. That was just the beginning.

"Once my son got involved at Lemoore, it just seemed natural for me to come home from cruises and fall back into the Scouting routine," he said. Now, in addition to the Cubmaster spot, he works as a volunteer for the Brownie Troop in the area Girl Scouts program. What's more, the entire family is heavily involved.

His wife, Nancy, had been a Cub Scout Den Mother when he was Den Leader. His moving up to the pack position left Nancy without a den. Now, however, she is preparing to become a Brownie leader next year.

Their daughters, Wendy and Sandy, are involved in Brownies. Robert is a Cub Scout

and ready, next year, to become a Boy Scout.

What Ens. Black is looking forward to with great anticipation is being able to, one day, pin the Eagle badge, Scouting's highest honor, on his son. "He's got my enthusiasm and drive for Scouting and is really enjoying the experience," the NWC officer commented.

Last year Ens. Black was surprised when the District Executive presented him with an award as Cub Scout Recruiter of the Year. He got it, in part, for single handedly recruiting 38 youngsters into the Pack 341 program. It was part of his effort to expand Scouting, make it more attractive and get the kids involved at an early age.

For example, he'd really love to see the younger boys allowed to go on camping trips. These trips give them an early recognition of the benefits of the outdoors and what Scouting can offer them.

The Indian Wells Valley has been an excellent Scouting home for Ens. Black. He goes out of his way to praise the cooperation he's received from school officials and the Naval Weapons Center.

"Cdr. Erickson, head of the Aircraft Support Division, Capt. Allen, head of the Aircraft Department and all NWC's top management have been extremely cooperative and understanding of my Scouting duties," he said. "It really makes a difference to have that kind of support."

There is a busy Navy career for Ens. Black as well. As Targets Maintenance Officer he has the responsibility to keep a lot of different types of aircraft flying in support of the NWC mission.

Commissioned after more than 11 years in the Navy, Ens. Black recalls he was "a chief having a good time as a flight deck coordinator on the Enterprise when I found out I was getting commissioned. NWC was his first assignment as a commissioned officer following training in Florida."

One very happy day is only about two months away, the day he is no longer an ensign, but a lieutenant junior grade. "That's going to be a highlight of my Navy career," he commented.

NWC has been a good place to work and live. Ens. Black finds it easy to be busy with some community or family activity at least five nights a week. It's a load, but when he's working with the youngsters in Cub Scouts or Brownies, it's worth all the trouble.

Nonetheless, in mid-1988 it will be farewell to the desert and hello sea duty. And, as much as he like the work and the challenges at NWC, Ens. Black is looking forward to getting back to a carrier, back to the fleet Navy.



## Military News



**BUSY OFFICER** — Ens. Ken Black talks to Fred Mansfield about aircraft maintenance. Ens. Black can also be found, usually more than one night a week, working with Cub Scouts of Pack 341 and assisting the leaders of an IYW Brownie Troop.

# Juror rules are modified for military

State and local officials can no longer require an active duty service member to serve as a juror if the service member's commanding officer determines it would "unreasonably interfere" with the person's military duties or "affect the performance of the military mission or readiness," according to a public law that became effective on Nov. 14, 1986.

In the past, "some state judges and jury commissioners would not grant an exemption for military members, even though the member's commanding officer stated that the member's absence for jury service would impair the ability of the command to carry out its mission in support of the national defense," Secretary of the Navy John Lehman said in a Feb. 6, 1986, letter to Congress. The Navy represented the Department of Defense for the legislation.

This had occurred in many states despite state exemptions for firemen and policemen -- and even for members of the National Guard, Lehman pointed out.

Executive officers, department heads, surgeons, dentists, medics, pilots, air traffic controllers, aviation maintenance supervisors, production engineers, judge advocates and training instructors are some key military personnel who were called to jury duty.

Military personnel were already exempt from jury duty in federal courts. Most states exempted them until about a decade ago, when the U.S. Supreme Court held that "restricting jury service to only special groups or excluding identifiable segments playing major roles in the community cannot be squared with the constitutional concept of jury trial."

"A service member who is permitted to serve as a juror on a state or local jury will not be charged leave or suffer any loss of pay or entitlements during the period of such service," reads the provision Congress added to the Department of Defense Authorization Act of 1987.



**SIX MORE** — ABE 1 Fernando Juarez reenlisted for another six year hitch in the U.S. Navy recently. Lt. Brian Lewis administered the oath of enlistment to the first class petty officer now working in the NWC Aircraft Department's Operations Division. Petty Officer Juarez recently reported to China Lake after a tour on board the U.S.S. Carl Vinson.

spend your time and why; how to handle people who waste your time; how to overcome the start-stop syndrome and incomplete work assignments; how to say no when you mean no; how to handle your clerical needs when you don't have a secretary; and for procrastinators only: new techniques for GETTING IT DONE NOW.

Scope: This is the definitive course on personal productivity, covering topics from productivity "habits," to concentration and creativity, to overcoming interruptions, to delegation.

#### SOFTWARE LIFE CYCLE FOR PROGRAM OFFICE STAFF

Open enrollment; Self-Study (Video tape), Training Center. By Staff of Design Research Corp.

Background: DOD-STD-2167 is the software development standard that supercedes DOD-STD-1679A for all new starts in weapon systems containing software. DOD-STD-2167 stresses the software development process by laying out a "road map" of the activities, reviews, and documentation necessary to develop and support software in mission critical computer resources. The standard is a multi-Service standard encompassing the Navy, Marines, Army and Air Force; however, the standard is very heavily oriented to the Air Force methods of contracting for software development.

Scope: This course was video taped "live" at NWC on April 7-11, 1986. It was designed for program office staff and was not designed to be video taped. It was felt it would be an asset to NWC to have a set of video tapes that could be used by anyone wanting to learn about DOD-STD-2167. Much of the tape had to be edited to do away with discussions that digressed or information that is not relevant to the way the Navy does business. Many of the acronyms and organizations used in the class are Air Force specific and do not apply to the Navy. Consequently, the tapes may at times seem jerky or disjointed, but this was done to eliminate irrelevant information and make the best use of the viewers' time.

Format: 12 3/4" video tapes, each 60 minutes long.

#### TWELVE STEPS: THE VIDEO

Open enrollment; Self-Study (VHS); Training Center. By Gerald T. Rogers.

Intended Audience: Those who have compulsive behavior problems (such as alcoholism, drug addiction, overeating, gambling, etc.) who are no longer able to make choices regarding their lives.

Objectives: Millions have found help for compulsive behavior in a variety of support groups that offer guidance based on "12 steps," which are a collection of principles and life guidance, designed to restore freedom to an individual's life while also providing meaning and joy.

Video features thoughtful narratives by individuals from all walks of life who practice the 12 principles daily.

This uplifting presentation is designed to offer general understandings of the underlying principles of "12 steps" program as well as to encourage individuals and their families to participate in the many specialized support groups who utilize this self-improvement program.

To enroll in these classes submit Training Request & Authorization Form (NAVPNCEN 12410/73) via department channels to Code 094.

## Start dates close for Northridge and Chico classes

The following classes' start dates are approaching and are being offered this spring for the Cal-State Northridge Engineering Program (bachelor's and master's degrees) and Cal-State Chico Computer Science Program (bachelor's and master's degrees).

For enrolling in these classes (other than Cerro Coso) submit an on-Center Training Request (NAVPNCEN 12410/73) via department channels to Code 094. Registration will be held in class at the first class meeting. Deadline for enrolling is 10 calendar days before the starting date of the class. Although training requests will be accepted after the deadline, that date will be used to determine whether the class will be held.

#### CAL-STATE NORTHBRIDGE

##### ME 370: THERMODYNAMICS

January 26-May 18; Mondays; 1530-1830; Training Center. By Professor Tim Fox, CSUN.

Prerequisite: Physics 1a (Mechanics) and Math 6c (Calculus).

Text: "Fundamental of Classical Thermodynamics," Van Wylan and Sonntag, 3rd edition, Wiley, SI version.

##### ME 510B: SEMINAR IN ENGINEERING ANALYSIS

January 27-May 21; Tuesdays and Thursdays; 1600-1730; Training Center. By Bob Rockwell, Ph.D., NWC ext. 5597.

Prerequisite: Graduate standing.

Text: "Advanced Engineering Mathematics," Wylie and Barrett, McGraw-Hill, 5th edition.

##### ME 590A: ADVANCED TOPICS IN FLUID DYNAMICS -- INVISCID FLOW

January 26-May 20; Mondays and Wednesdays; 1600-1730; Training Center. By Ray Van Aken, NWC ext. 7483.

Prerequisite: Thermodynamics and Fluid Dynamics or consent of instructor.

Text: "Compressible Fluid Flow," M. A. Saad, Prentice Hall, 1985.

##### IE 520B: ADVANCED MATERIALS ENGINEERING -- COMPOSITES

January 27-May 21; Tuesdays and Thursdays; 1130-1300; Training Center. By George Hayes, Ph.D., NWC ext. 1038 and Craig Porter, Ph.D., NWC ext. 2824.

Prerequisite: AM 420A (Advanced Mechanics of Materials) and IE 427 (Mechanical Properties of Materials) or consent of instructor.

Text: TBA.

##### EE 567: RADAR SYSTEMS

January 26-May 20; Mondays and Wednesdays; 1600-1730; Training Center. By John Johnson, Comarco.

Prerequisite: Some probability and random processes or consent of instructor.

Text: "Introduction To Radar Systems," Skolnik, McGraw-Hill, 2nd edition, 1980.

Reference: "Introduction To Airborne Radar," Stimson, Hughes Aircraft.

##### EE 563A: ANTENNA ENGINEERING

January 26-May 20; Mondays and Wednesdays; 1130-1300; Training Center. By Bob Dinger, Ph.D., NWC ext. 1414.

## Undergraduate training news

Long-term training refers to the off-the-job training to which an employee is assigned on a full time basis and which consists of more than 120 consecutive working days. Such training may be accomplished in either government or nongovernment facilities.

The trainee receives full salary, tuition, shipment of household goods to the school site and back, and travel for the trainee and dependents to the school site and back. A three-for-one training agreement will be required from each successful applicant.

Eligibility to apply for undergraduate training includes all of the following: NWC employee for three years by September 1987; must be within two years maximum of completing desired undergraduate program; program of study must be in an area or related area defined by NWC as a critical need, in accordance with CPI 410.10 and NWC Instruction 12410.5L of Sep. 30, 1982.

At the undergraduate level there is a continuing need in the following areas: Computer Science (in a specialization other than that offered at NWC); Electrical Engineering; Acquisition/Contracting; Financial Analysis/Cost Accounting with A.D.P. background; Audio Visual

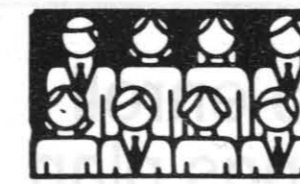
Production; Graphic Arts Design; Management Information Systems; Occupational Safety.

Eligible applicants will be ranked on the following relevant criteria: grade point average in previous college courses; past self development efforts; plans for utilization of requested training. As identified by Long Term Training Committee, the most highly qualified applicants will be selected according to the Long-Term Training Handbook (NWC IDP 3511 of May 83). A total of 20 NWC employees will be able to undertake under-graduate or graduate training each year, with the Corporate Planning Board deciding how many will fall in each category. A special application form is needed to apply for this opportunity. Applications may be obtained from Joan Telles (Code 094) in Room 212 of the Training Center. Counseling regarding the various programs is available from Steve Lee (Code 094) NWC ext. 2468. Please call for an appointment to assure counselor availability. Completed applications should be returned to the Reception Desk of the Personnel Department (Room 100 of Personnel Building) no later than 4:30 of March 2.

### English Writing Proficiency Test scheduled for Northridge students on Jan. 27

The English Writing Proficiency Test will be given on Tuesday, Jan. 27, at 9 a.m. Cal-State Northridge students should take the exam as soon as application for admission has been approved. This test must be passed before the student is granted unconditional status as a master's candidate.

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



### PROMOTIONAL OPPORTUNITIES

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

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

No. 25-001, Procurement Clerk/Procurement Assistant (Typing), GS-II06-4/5/6/7, Code 25242 - Incumbent is responsible for providing clerical support in the form of typing (utilizing Xerox 860 word processor), filing, compiling data, maintaining logs, and performing follow-up on action item suspense dates for a wide variety of contractual actions. Incumbent maintains instructions and FAR Clause Books, reviews correspondence and suspense action items, and receives visitors and telephone calls. Uses a wide variety of guidelines including DOD and Navy instructions, Contract Division Operating procedures on Federal Acquisitions Regulations Books. Job Relevant Criteria for Clerk, GS-4/5:

Knowledge of correspondence regulations and contractual terminology; ability to meet with people effectively and prioritize work under heavy workload conditions. At the assistant level, the incumbent assists Contract Specialist in the Administration of complex contracts including monitoring performance and negotiating and writing modifications. Reviews contract files for proper format, documentation, and input into automated information processing systems. Maintains extensive status of action items for the section. Job Relevant Criteria for Assistant, GS-6/7: Knowledge of general business practices; ability to read and correctly review contracts; organize file documentation; prioritize and process in an orderly manner multiple tasks simultaneously. Procurement Clerk/Assistant has promotion potential to GS-7, however not guaranteed. Status eligibles may apply.

No. 39-004, Electronics Engineer, DP-855-1/2/3, Code 3926 - This position is located in the Inertial Development Branch, Weapons Development Division, Weapons Department. The Inertial Development Branch develops, tests and evaluates inertial sensors and inertial systems. It also functionally integrates inertial systems with navigation aids, such as the Global Positioning System. The incumbent will design digital circuits and select hardware for procurement to expand the capabilities of the inertial test laboratory and will provide hardware support in rehosting test software on a DEC VAX 11-750 from a HP-1000. Job Relevant Criteria: Knowledge of fundamentals of digital design; hardware and software fundamentals of minicomputers; microprocessor-based systems. Abilities to organize and prioritize tasks; to function effectively as a member of a technical team; to communicate effectively both orally and in writing. Promotion potential to DP-3.

No. 25-002, General Supply Officer, DP-2001-3, Code 253 - Incumbent serves as the Head, Supply Support Division. The division is comprised of 6 civilian personnel. Functions include supervision of quality assurance to oversee contractor performance of supply operations (receiving, delivery, warehousing, stock control, custody

No. 62-004, Supervisory Interdisciplinary, General/Electronics/Mechanical/Aerospace Engineer/Physicist/Operations Research Analyst, DP-801/855/861/1310/1515-3, Code 62C1 - This position is Head of the Air Projects Office, Range Department. The incumbent is responsible to the Head, Projects Office for technical

management, design coordination, supervision, evaluation and documentation of all air range tests by the T&E Directorate. The office applies a multi-disciplinary engineering approach to these programs which consist of determining the technical performance, properties and characteristics of aircraft weapon systems under development by NWC and other organizations that utilize the Center's range facilities. The incumbent directs both the financial and personnel resources of the Air Projects Office to ensure efficient, expeditious and economic accomplishment of testing programs on complex airborne weapons systems. Job Relevant Criteria: Knowledge of the engineering, state-of-the-art, applicable to airborne weapons systems and the requirements testing these systems levy upon the ranges, project aircraft, test instrumentation and facilities; knowledge of and willingness to support NWC EEO goals and policies; ability to work effectively with personnel at all levels ability to communicate effectively both orally and in writing. New supervisors will be required to serve a one-year supervisory probationary period. Promotion potential to DP-3.

No. 62-005, Engineering Technician, DT-802-1/2, Code 6221 - The incumbent functions as an Air Controller during the conduct of RDT&E flight tests and works in a fluid real-time environment which requires the precise positioning of test aircraft on predetermined flight trajectories. Job Relevant Criteria: Working knowledge of geometric functions; able to work in Lambert and geodetic grids and interpolation of magnetic, grid, and true headings; and general knowledge of ordnance that is to be expended, location of instrumentation and its capabilities on the ranges. Status eligibles may apply. Promotion potential to DT-3.

No. 64-160, Engineering Technician, DT-802-1/2/3, Code

6414 - The incumbent provides support in the area of testing of parachute related systems. This includes test conduction design, test cost estimating, data retrieval, storage and analysis. Coordinates scheduling of test events with other organizations, keeps track of data retrieval, logs on computer events and test costs. One year of college level courses is desirable. Job Relevant Criteria: Knowledge of safety requirements, especially in explosive handling particular to parachute testing; knowledge of program budget and program planning documents and the directives and guidelines that affect them is desirable; ability to use a Macintosh PC; ability to bend, lift and climb. Must be willing to travel to remote test sites on Center and work in adverse climate conditions. Promotion potential to DT-3.

No. 62-006, Supervisory Interdisciplinary, (General/Aerospace, Electronics/Electrical/Mechanical) Engineer/Physicist, DP-801/861/855/850/830/1310-3, Code 6222 - This is a high visibility position as head of the thirteen-person Operations Section in the Track Operations Branch of the Range Department. It is at the SNORT Facility and provides opportunity for the application of both management and technical abilities. The successful candidate will lead a highly skilled team in the design and execution of a variety of dynamic high priority assignments. Disciplines involved include range engineers, ordnance repairmen, photographers, and electricians. Personnel interfaces with contractors and with military personnel are routine. Job Relevant Criteria: Knowledge of (or willingness to learn) the fundamentals of ordnance handling, electricity, and photography is required. Ability to work effectively with personnel at all levels; ability to communicate effectively both orally and in writing. Must be willing to support NWC EEO goals and policies. New supervisors will be required to serve a one-year supervisory probationary period.

### SECRETARIAL OPPORTUNITIES

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

Applicants will be rated against 4 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 1/2/3/4/7/8/9; Program Office Secretary applicants will be rated on elements 1/2/3/4/5/8/9; and Department Secretary applicants will be rated on elements 4/7/8/9. A SUPPLEMENTAL FORM IS REQUIRED AND MAY BE OBTAINED IN ROOM 100 OF THE PERSONNEL BUILDING.

No. 24-003, Secretary (Typing), GS-318-4/5, Code 243 - Security Division Secretary, Safety & Security Department. Provides secretarial support to the Security Division Head. Position

requires considerable interaction with on-Center and off-Center personnel. Knowledge of IBM PC desirable. Promotion potential to GS-5.

