

NO, THANK YOU — Learning to say no to alcohol and drugs, even when under peer pressure is the thrust of the 'Council On Alcohol Awareness' new campaign. Dawn Novak, of the COAA, says the California Department of Drugs and Alcohol is promoting the campaign with bumper stickers, pins and posters. She and Chief Jim Brown of the China Lake Police Department are shown with the promotional literature. For more information on the campaign or COAA, telephone 375-2271. The buttons, bumper stickers and posters are available at the NWC Police Department. — Photo by PH2 Rick Moore

"Movin' On Up" registration begins

Registration has opened once more for the Recreational Services Department's "Movin' On Up" before and after school program.

Children in grades one through six can participate from Sept. 3 through June 13 at the Youth Center. The program operates from 7 a.m. until 5 p.m. Mondays through Fridays, and provides games, crafts, trips, music and much more.

Fee schedule for "Movin' On Up" is \$29.50 for each military child for both morning and afternoon sessions, and \$31.50 for the children of DOD civilians.

WACOM Thrift Shop features sale items for "Back to School"

The start of school means that youngsters will need school clothes to replace all those that they have outgrown during the summer. To help families with tight budgets, the Thrift Shop, operated by the Women's Auxiliary of the Commissioned Officers' Mess, is featuring a half price back-to-school sale next week.

Shoppers can take advantage of prices just half those of the already bargain prices on Tuesday evening from 7 to 9 o'clock and on Thursday from 10:30 a.m. until 12:30 p.m.

The Thrift Shop is located at 1809 Lauritsen Road.



	Max.	Min.	Peak wind
Fri.	102	66	23 knots
Sat.	95	68	28 knots
Sun.	100	64	22 knots
Mon.	103	59	25 knots
Tues.	99	64	25 knots
Wed.	101	61	22 knots
Thurs.	103	63	20 knots

All measurements are made at Armitage Airfile d.

DMV placards are available

Any handicapped persons who telephone or visit the local Department of Motor Vehicles office to get their new disabled person parking placard are asked to tell the person they talk to that they are disabled. They will be given prompt attention.

"We want to be as helpful as possible," says Shirley Woodstock, office manager 111 E. California Blvd. Ridgecrest, who reminds the public that getting a new placard can be done entirely by phone and by mail.

Persons who are disabled, suffer impaired mobility or are blind should now be ordering new disabled person parking placards, and the new ID cards that go with them, says Mrs. Woodstock. Existing disabled person placards will become obsolete by the end of September. Starting October 1, 1985, only the new placards (white with a red border and wheelchair symbol) will be honored by parking police and other law enforcement personnel (except for temporary placards with their own expiration dates written on them).

In California, special parking placards for use by disabled persons have been around since 1977, says Mrs. Woodstock. Unfortunately, too many of the almost 550,000 placards have found their way into the hands of persons who aren't entitled to them; so the State Legislature instructed DMV to issue new ones that will be changed every two years.

Here's what disabled persons should do: Call the local DMV office, 375-3372, and ask to have the disabled placard application form mailed to them. Fill it out and have it

signed by their doctor. Then mail it to the Sacramento address shown on the form (not to the local DMV office) with a check or money order for \$6.00.

Persons who have previously qualified for disabled person (DP) or disabled veteran (DV) license plates don't need a new medical certification. Just list the DP or DV license plate number on the form and send it to Sacramento DMV with the \$6.00.

The new placard will be mailed to the applicant along with an identification card carrying the same number as the placard. Enforcement officers will be able to verify a person's entitlement to a placard and ID card through DMV's computer in Sacramento.

Placards are intended to be placed on the vehicle's dashboard when the vehicle is parked in disabled person parking space or stall, or a metered zone. A placard so displayed entitles the vehicle to park for unlimited periods in zones with time restrictions (along green or blue curbs and in areas posted with signs), and to park in metered zones without paying. The placard does not permit parking where prohibited, such as at red curbs, near fire hydrants, tow-away zones, etc.

Mrs. Woodstock offers to arrange "placard clinics" on the premises of organizations serving the disabled. Responsible parties should call her to set a time when a DMV employee can visit and pick up application forms distributed in advance.

Rattlesnake Relay set for Thurs. Aug. 29, OTHTC season begins

Kicking off the Over-The-Hill Track Club (OTHTC) racing season is the Tenth Annual Ridgecrest Rattlesnake Relay on Thursday, Aug. 29 at 6 p.m. Starting point for the race is the Center Gymnasium. Sign ups begin at 5 p.m.

While emphasis is based on participation rather than winning, awards will be presented to the five fastest open teams, three fastest family teams, and fastest female team based on handicap times. Fastest male and female scratch lap runners will also receive awards.

Teams consist of three people who are running 3 1/3 miles apiece. Entry fee for the race is \$3 per team for OTHTC members and \$3.75 per team for others. OTHTC memberships are available.

For more information on the race or the OTHTC, contact Tom Rindt or Dianne Lucas at 375-9536.

Movies

FRIDAY, SUNDAY	"LADYHAWKE"	AUG. 23, 25
	Starring Matthew Broderick and Rutger Hauer (Fantasy-Adventure, Rated PG-13, 90 min.)	
SATURDAY	"PORKY'S REVENGE"	AUG. 24
	Starring Dan Monahan and Wyatt Knight (Comedy, Rated R, 98 min.)	
MONDAY	"DREAMCHASERS"	AUG. 28
	Starring Harold Gould and Justin Dana (Drama, Rated PG, 94 min.)	
TUESDAY	"JUNGLE BOOK"	AUG. 27
	(Matinee) Voices by Phil Harris and Sebastian Cabot (Animated, Rated G, 78 min.)	
WEDNESDAY	"TUFF TURF"	AUG. 28
	Starring Kim Richards and James Spader (Youth-Drama, Rated G, 111 min.)	
THURSDAY	"THE GOLDEN SEAL"	AUG. 29
	(Matinee) Starring Steve Railsback and Michael Beck (Adventure, Rated PG, 95 min.)	
FRIDAY	"MISSING IN ACTION II - THE BEGINNING"	AUG. 30
	Starring Chuck Norris and Soon Teck Oh (Action-Drama, Rated R, 95 min.)	

Starting Times: Matinee / 2:00 pm Evening / 7:00 pm
Box Office Opens: Matinee / 1:30 pm Evening / 6:30 pm

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

OVERWEIGHT MEANS LESS EXERCISE

Recent studies show that approximately half of all overweight people don't eat any more than their leaner neighbors. However, they do get much less exercise.

U.S. Government Printing Office: 1985 - No. 20018

FROM: _____ PLACE STAMP HERE

TO: _____

Cross-Section Radar Range a unique resource

State-of-the-art capabilities and a high-desert valley location make the Junction Ranch Radar Cross-Section (JRRCS) Range a unique and valuable resource at the Naval Weapons Center.

Hans Pieper, range manager for the Special Projects Office of the Range Department, said they are in beginning stages of an extensive improvement and modernization effort, "trying to anticipate the needs of the next 10 years."

Precision radar cross-section measurements of various targets can be made in this isolated environment nearly 40 miles from NWC's headquarters building.

In charge of the facility since early this year, Pieper noted that the range consists of two test sites, a Look-Down Test Facility and a Horizontal Test Facility, sharing personnel and some equipment.

Both have multi-frequency radars (two frequencies at the look-down and six at the horizontal site), which provide a wide range of pulse-repetition-frequency-pulsewidth combinations.

Data gained can be used to identify types of aircraft or other targets as well as how to reduce the detection of targets such as aircraft.

Perched high on a mountain overlooking Junction Ranch Range, the look-down facility can be used to obtain radar cross-section measurements for land or water targets.

It looks down from 17,000 feet away at two target areas, the water site and the tilt-target area. The water site allows for 360 degrees target rotation and simulates a sea environment, even to the extent of using salt water in the target area. It is at a

(Continued on Page 7)



ADJUSTMENT — Hans Pieper, Range Manager of the Range Department's Special Projects Office, makes an adjustment to the calibration plate on the target area of the look-down facility.

Unveiling ceremony marks flood's anniversary



VOLUNTEERS HONORED — Gerry Schiefer, Deputy Technical Director and Laboratory Director, and Capt. K. A. Dickerson, NWC Commander, unveil a plaque listing the names of 717 volunteer Michelson Laboratory "muckers" who helped clear the damages following last year's flood.

On the anniversary of the Great Flood — Aug. 14 of last year — Capt. K. A. Dickerson unveiled a plaque on a commemorative rock located just north of the Michelson Laboratory entrance. On the plaque were the names of 717 of the "Michelson Laboratory muckers" who turned to shovels, brooms, and lots of energy to clean the mud and silt out of the Center's biggest building.

The names listed include one from the Center's Fire Division, two Naval Reserve Units, 656 Civil Service employees (from laborers to PhDs), 24 military, and 34 contractor employees. Capt. Dickerson suggested that anyone who felt that he or she had been omitted and deserved to be listed should contact the appropriate department head for a follow-on.

In addition, 1,930 certificates for "mucking" and other post flood work have been

awarded, 120 employees received Special Act Awards, and 18 were presented Commander's Awards for their efforts.

Capt. Dickerson reported that the 12 feet of water in Michelson Laboratory represented about 10,000,000 gallons. Untold hours of volunteer labor were amassed by those who became the "muckers."

These volunteer efforts resulted in a commendation from Adm. S. A. White, who wrote the Skipper that "I have not heard of a better example of superb teamwork and performance in the face of adversity than the case of the severe flooding at China Lake. The speed and thoroughness of your people's actions during the flooding and the painstaking clean-up which followed are terrific examples for all to see."

Following the unveiling of the plaque, the "muckers" present adjourned to Solar Park for an anniversary get-together.

Top Center management enthusiastic about training

All of top management at NWC is very enthusiastic about the training programs on board, Burrell Hays, NWC Technical Director, told those attending a luncheon in honor of the graduates of the Center's college programs.

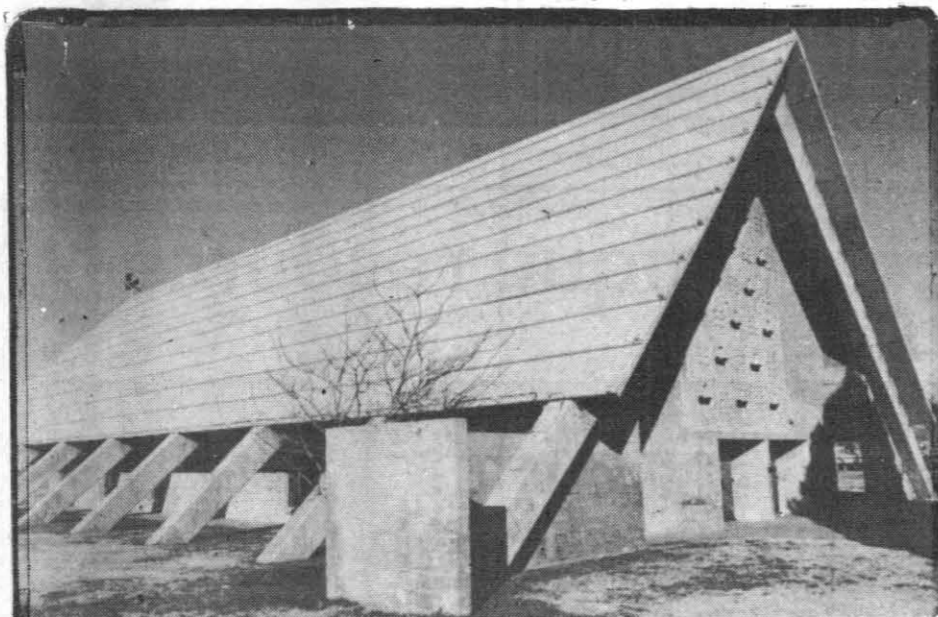
"The program is important because the hard and dedicated workers on board who have proven themselves are able to improve their work skills. Our human resource is the most important resource that we have. Also, training helps people fit into the China Lake culture," he said.

"And, in addition, the possibility of getting additional training is important in recruiting and retaining those who want to improve themselves and enhance their capabilities," Hays noted.

He continued by saying that the Center is also using training to enhance the knowledge of women and minorities in order to provide additional opportunities for these groups. "There's a tremendous resource of ability in those groups that we've not really tapped," Hays said.

He also congratulated the spouses and support people behind the graduates, saying that when someone puts in the number of hours of study required to earn a college degree, the family is apt to suffer since the majority of those honored at the luncheon were working full time as well as taking course work.

Hays commended Dr. Steve Lee (who served as master of ceremonies at the luncheon) for his efforts. (Continued on Page 2)



Center graduates honored...

(Continued from page 1)
lunch) for the hard work that he has put in on developing new programs such as a possible external bachelor of science degree in electrical engineering.

"The only way that such a program can be successful in giving us a better work force," Hays noted, "is through the cooperative efforts of schools, universities and colleges along with the Center."

The first graduate introduced was from Cal-State Northridge. Dr. A. F. Ratcliffe, Dean of the School of Engineering and Computer Science, said that Mark Reynolds was the fourth person from NWC to receive his master's degree in electrical engineering under the current program. He added that 250 students were enrolled in the program during this past year. Dean Ratcliffe expressed his appreciation for the support of NWC employees who have served as capable instructors for the courses offered.

Dr. Charles Urbanowicz, Associate Dean of Continuing Education, Cal-State University Chico, commented that the university is very pleased to be involved in the external degree program with NWC. "Continuing education is fun, exciting and essential," he added. Graduates with a master's degree in computer science were Michael Renta, and Janice Zenor, who is not a Center employee. Receiving a bachelor's degree in computer science was Robert Hemingway.

The largest group of graduates under the external degree programs, those from Cal-State College Bakersfield, were introduced by Dr. Harry Kelsey, Dean of the School of Business and Public Administration. Dean Kelsey expressed his pride in the program and the graduates because they are such dedicated students. He said that in

addition to the two programs already underway, a new program, that of a master's degree in administration, was also being considered.

Receiving a master's degree in public administration were Elizabeth Babcock, William Blanc, Ava Donnette Cappello, Charles Hawthorne, Eric Kajiwara, and Jonathan Osgood. Cheryl Couthlin, Kit Driscoll and Peggy Robison received bachelor's degrees in business administration.

Successfully completing a degree under the long term training program was Bob Campbell, Master of Science in Management from the Alfred P. Sloan School of Management at the Massachusetts Institute of Technology.

Others doing graduate work and their fields and schools were Kay Delger, public administration, University of Southern California; Lewis de Sandre, thin film optics, University of Arizona; Phillip LaRoe, material science and semiconductor physics, Montana State University; Robert Westbrook, computer science/software engineering, Naval Postgraduate School; James Bevan, applied mathematics with a specialty in remote sensing, University of Arizona; and William Shaner, computer technology, Naval Postgraduate School.

Dr. Paul Riley from Cerro Coso Community College said that during the past year 90 students were enrolled in various cooperative programs with NWC. Those graduating with either technician training or computer science training were Cameron Bruce, Charmaine Franck, Tammy Furnish, Mike Casper, James King, James Knowles, Tim Lafromboise, James Noh, Jean Rongish, Jerry Senn, Theresa Smith, Roger Turcotte, Donna Uhl, Robert White, Marc Williams, Brian Wolfe, and Norma Zimmerman.

Cross-Section Radar Range is unique...

(Continued from Page 1)
fixed 10-degree angle of radar incidence.

The turntable for the tilt-target area is mounted on a hydraulically controlled platform, enabling targets to be exposed to radars at all azimuth angles in elevations ranging from 5 to 32 degrees. This platform which is lifted by four massive hydraulic rams, can handle target loads up to 10,000 pounds.

With target holders that can be positioned at 700 and 4,000 feet from the radars, the Horizontal Test Facility uses radar capable of simultaneous measurements on three of its six operating bands.

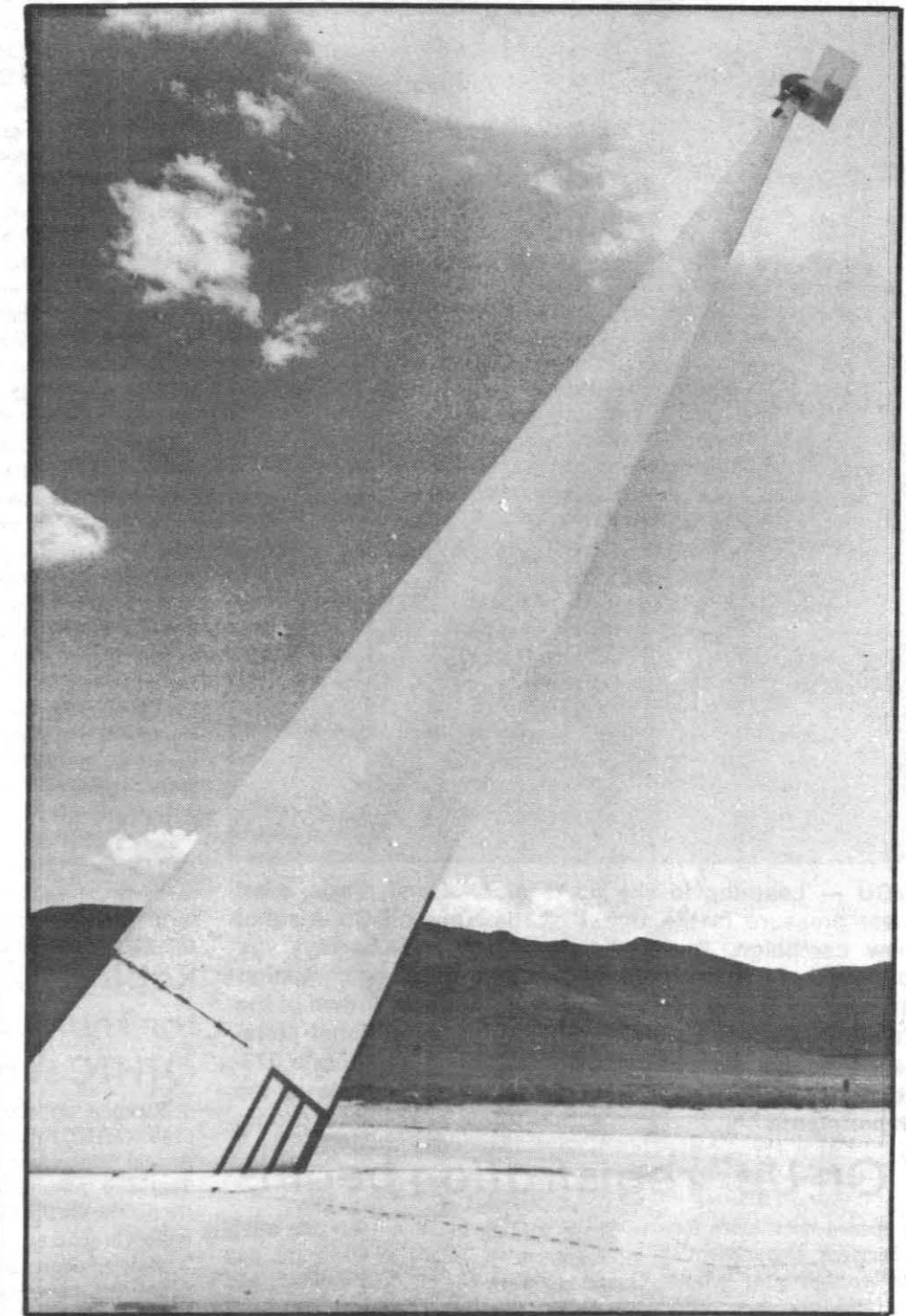
A 40-foot high, low-backscatter pole 4,000 feet from the radars is the principal target area. It can hold targets weighing up to 2,500 pounds, placed there with a crane.

The top is a remotely controlled mount capable of 360-degree rotation and tilting from +5 degrees to -45 degrees in elevation. This pole can also be positioned just 700 feet from the radars.

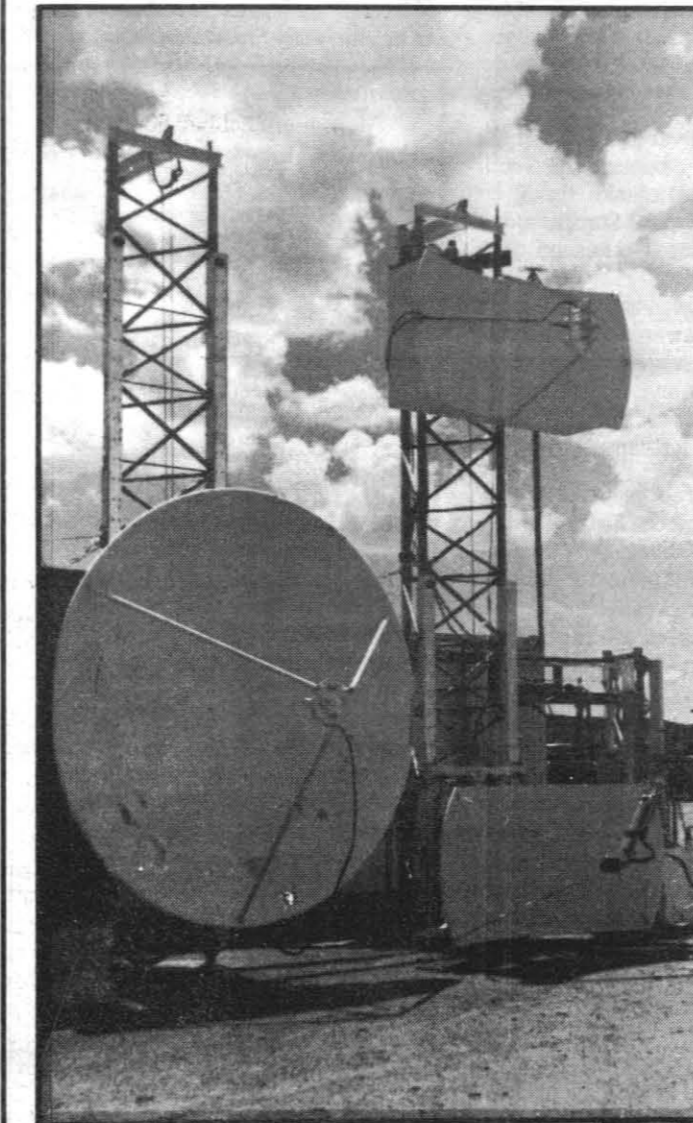
Pieper noted that future plans include a silo for this 40-foot pole so targets can be attached at ground level, then lifted into position while fixed to the pole.

Targets fixed to the pole can be measured in a free-space environment because the pole itself represents an almost non-existent radar target.

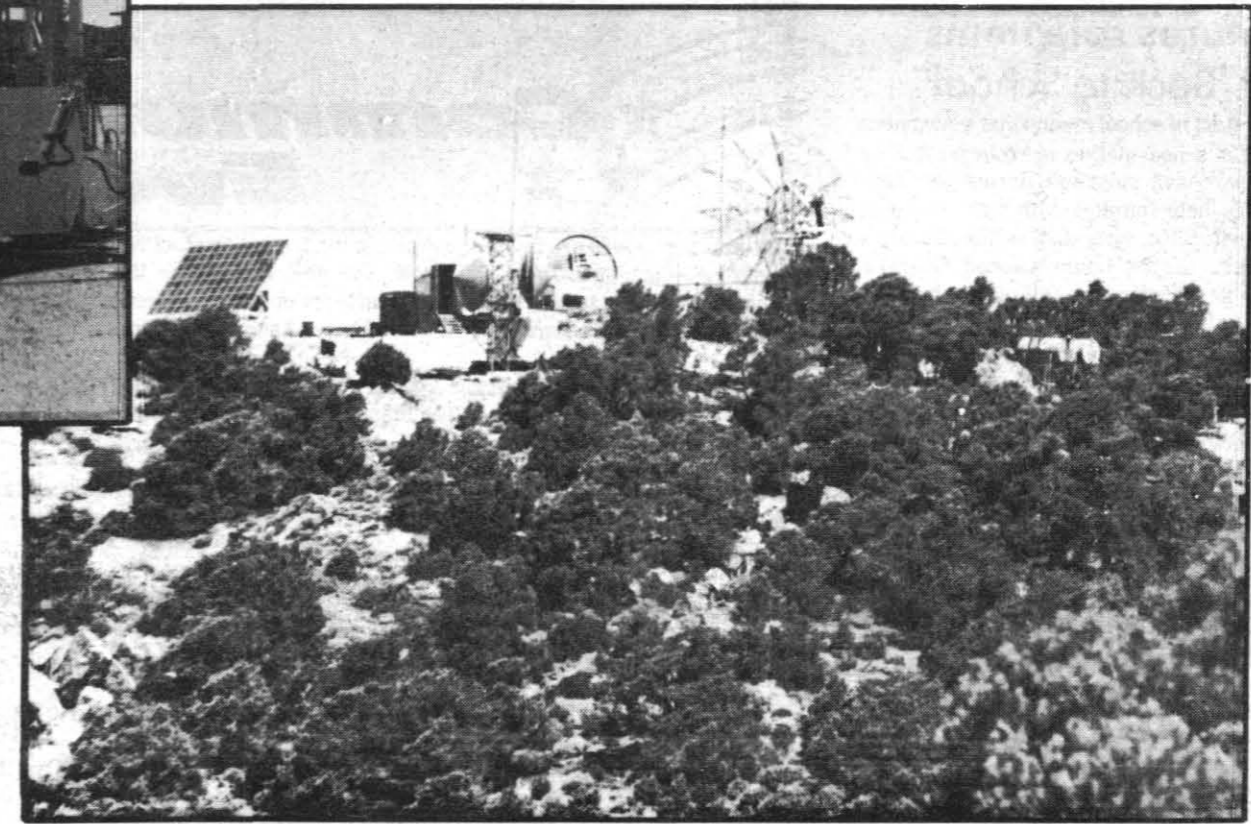
Because Junction Ranch Range is in an isolated area of NWC, it offers both relative freedom from RF interference and restricted access by land or air.



RADAR TARGET — This low backscatter mast is used to support targets for the horizontal radars of the Junction Ranch Radar Cross-Section Range.



HORIZONTAL RADARS — At the Junction Ranch Radar Cross-Section Range, the horizontal radars can operate on up to six different frequencies. — Photos by Steve Boster



LOOK-DOWN — Perched on a ridge overlooking its target area is the look-down radar facility of the Junction Ranch Radar Cross-Section Range.

State-of-the-art instrumentation is available. Pieper noted that data can be observed visually while it is being recorded for future analysis and reduction.

Pieper, of Code 6204, noted that the range is used by the Navy, by other military installations, and by contractors. The Horizontal Test Facility is one of only two such test facilities operated by the U.S. government. The Look-Down Facility is the only such facility known to exist in the United States.

Both facilities at the Junction Ranch Range can be staffed for multi-shift operations and the unique combination of facilities allows instrumentation to be fine-tuned to meet the needs of the users.

Divine Services
PROTESTANT

SUNDAY WORSHIP SERVICE 10 a.m.
SUNDAY SCHOOL (Annexes 1, 2 and 4) September thru June 8:30 a.m.
BIBLE STUDY (East Wing)
Tuesday 7:30 p.m. (Nursery provided) September thru June
Wednesday 11:30 a.m. September thru June
Thursday 7 p.m. Officer's Christian Fellowship
Christian Military Fellowship

ROMAN CATHOLIC

SUNDAY MASS 8:30 a.m.
COMMUNION SERVICE (Monday) 11:35 a.m.
DAILY MASS (Tuesday through Friday) 11:35 a.m.
CONFESSIONS (Friday) 4:30-5 p.m.
RELIGIOUS EDUCATION CLASSES (Sunday) September thru June 10 a.m.

JEWISH

WEEKLY SERVICES (Friday, East Wing) 7:30 p.m.
ADULT EDUCATION (Saturdays, Annex 4) 9 a.m.
RELIGIOUS SCHOOL (Sundays, Annex 95) 9 a.m.

Chaplain J. Milton Collins, Capt., CHC, USN
Chaplain A. J. Smith, Cdr., CHC, USN
Chaplain Jason E. Knott, LCdr., CHC, USN
Phone, NWC ext. 3506, 3507

Employee in the Spotlight

Moving, traveling top Virginia Pearia's list

After a lifetime spent in arid areas of California, Virginia Pearia, accompanied by her husband John, plans to move to Port Townsend, Washington, in about three years when she retires.

Not only did she grow up in Hanford, California, but her father was born on property near Avenal that her grandmother had homesteaded. "I'm really a third-generation Californian," she says, adding that she, her brother, and some cousins still

own the original homestead in the San Joaquin Valley.

"When I first came here in 1954," Mrs. Pearia reminisces, "I lived in one of the old government trailers that were located near the Public Works complex — one of the ones that didn't have a bathroom, so you had to use a communal bath and shower in the middle of each group of trailers."

Living conditions for the Pearias have been considerably better than that in recent

years. After nine years of living at Sierra Breeze near Inyokern they bought a house in town. Since his retirement from the China Lake Police as a Captain recently, John has been doing things that he's been wanting to spend time on for years.

(Mrs. Pearia says that she's enjoying having some time to do the things he has wanted to do after 28½ years with the China Lake Police. "That takes a lot out of you," she says, "because you are always dealing with people's problems.")

She began working for the Center with the old Supply and Fiscal organization (which included at that time a lot of the functions now handled in Central Staff), and then transferred to the Research Department for eight years in the financial area, appropriate since she had originally transferred to the desert as an employee of the Bank of America before she went to work for the Navy.

After a five year break in service during which time she had the two younger of their four children, in 1969 she went to work for Central Staff, then in 1971 for the Weapons Planning Group and has remained with them since. For the past five years she has been the Department Secretary for this organization.

"I really enjoy being Department Secretary," Mrs. Pearia says, "because it gives

me the opportunity to interface with a large variety of people at all levels. I especially enjoy working with this Group because they are all such genuine and talented people."

"In Code 12 you really feel that no matter what you are doing, you are making a contribution because so many other things that Code 12 does have a direct bearing on some decisions made in Washington," she adds. "Also, there's a real feeling of being part of a team effort here, almost the feeling of being a member of a family."

Spare time for Mrs. Pearia has been spent in the submission of the financial report for St. Ann's Church to the Diocese for the school and church (for the past 11 years), where the Pearias are active in the parish. She knits ski sweaters for family. They also enjoy camping and traveling in their time off in their motorhome.

"When we move to Port Townsend to the condominium we bought last year on the water, we'll still travel a lot," she says. "When it rains up there we'll come south to the upper and lower deserts, to Long Beach to see a son, or San Bernardino to see a daughter. And some summers, we can drive north to Alaska where our married son lives. Our youngest son is a senior at Burroughs, so we don't know where else we may be heading to visit. In any case, we're really looking forward to the years ahead."



TEAM MEMBER — Virginia Pearia enjoys her job as Department Secretary because she says that the Weapons Planning Group where she works makes everyone feel that each person's contribution is valuable to the group effort. — Photo by PH2 Rick Moore

NWC Rocketeer

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NWC Commander

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Technical Director

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Official Weekly Publication
Naval Weapons Center / China Lake, California 93555-6001
(619) 939-3354 or 939-3355

Deadlines: News Stories-Tuesday, 4:30 pm / Photographs-11:30 am

The Rocketeer receives American Forces Press Service material. All are official U. S. Navy photos unless otherwise identified. Printed weekly with appropriated funds by a commercial firm in compliance with NAVSO P-35 revised May 1979.

Office at Nimitz and Lauritsen. Information published in the Rocketeer does not necessarily reflect the official view of the Department of Defense. Information in the Rocketeer is authorized for public release by the Naval Weapons Center Public Affairs Officer, Code 003.

Doc's maintain military loop softball advantage

With a 14-2 record, Doc's heads the Military Softball League after two weeks in August. The Hornets with a 0-14 mark remain the only winless team in the loop.

VX-5 15, Outlaws 9
Wentworth, Egge and Munoz had three hits each as VX-5 rolled past the Outlaws. The winners amassed 19 hits en route to the victory. Harmon gave up 12 hits in the win.

Bears 26, CPOs 9
Holding onto third place in team standings, the Bears easily whipped the CPOs, racking up 30 hits in the seven inning contest. Myers with three doubles and a single and Wynne with two singles, double and a triple keyed the winning attack and Waugh was the winning pitcher.

Doc's 16, Devils 11
Despite giving up four walks, Bookout was the winning pitcher as Doc's stopped the Devils. Blevins' homer, triple and single paced the 24-hit attack for the winners. Ruiz and Washburn also tripled.

Doc's 16, Devils 11
Free's double was the only extra base hit of the game for the Devils while three other players had two hits each. Chilton was the losing pitcher in the seven inning contest.

NWCO's 17, Hornets 16
One run in the sixth inning snapped a 16-16 tie as the NWCO's kept the Hornets winless. Four singles from Knott and three hits, including a home run, from Whittle keyed the winners.

Doc's 16, Devils 11
B. Curtis and E. Kuhar had three hits each for the Hornets who saw their 11-1 first inning lead vanish. D. Bouchard was the losing pitcher as the win went to Lucchesi.

Bears 16, Outlaws 10
Waugh picked up five hits and pitched a 15-hitter to gain the victory for the Bears. Wynne's triple was a big blow in the 20-hit Bears attack.

Bears 29, Hornets 12
Killinger was the losing pitcher and added two hits in the effort. Edens homered and doubled to help the Outlaws, while Weeks added three singles in the loss.

CPOs 28, Hornets 11
Parrie's home run and three hits each off the bats of Purdy and Panek led the CPOs to victory as Purdy gave up 17 hits and his teammates collected 19 off Killinger.

Doc's 18, NWCO's 15
A pair of doubles and a single by Eden keyed the Outlaw attack. Suttle's double was the only other extra base hit of the game for the Outlaws.

NWCO's 21, Devils 7
Eight runs in the fifth inning clinched the win for the NWCO's against the Devils. Whittle notched four hits, including two doubles, in leading the winners. Knott added three hits to the attack and was the winning pitcher.

Bears 17, CPOs 7
Walker gave up 18 hits and 11 walks as the Devils were never close after the first inning. Wagner's two doubles led the losing offense.

Devils 17, CPOs 3
Jimbo's home run and Chilton's five-hit pitching paced the Devils to their big win.



Sports

Last fling time approaches for most summer anglers

Large crowds haven't hampered the fishing at California's numerous high Sierra lakes and streams. With the last fling of summer fast approaching, anglers are expected to give their favorite fishing spot at least one last try this weekend or next.

From Lone Pine Creek to Bridgeport anglers are reporting large numbers of pan-size rainbow trout being taken on a variety of baits and lures.

Visitors to the high country can expect chilly nights with lows in the low 40s to high 30s from Mammoth north.

In Lone Pine, Georges and Independence Creeks anglers are landing pan-size trout using worms, eggs and cheese. Big Pine Creek anglers are using the same, plus marshmallows.

At Lake Sabrina, shore and still anglers are having the best luck. They are using eggs, marshmallows and worms. Trolling is now producing some Eagle Lake trout for anglers using a Dave Davis with worms.

South Lake, North Lake and Intake Two anglers report lots of pan-size plant limits and some larger fish as well. Natural baits or a fly and bubble combination are working well.

Back country lakes like Blue and Sunset are at their best right now. Anglers using natural baits are catching lots of brook trout.

After the Huck Finn Raft Races on the Owens river below Pleasant Valley Reservoir, the river should be better for fishing as flows return to normal.

Rock Creek and Rock Creek Lake are reported fair to good this week. Anglers are catching pretty good plants on worms, marshmallows and cheese. Also small spinners are attracting trout in the creek.

Outlaws 24, Devils 19
Collins had six hits in as many as bats to lead the Outlaws past the Devils. Eden and Suttles had four hits each, including a homer each, for the winners. Killinger was the winning pitcher.

CPOs 28, Hornets 11
Outscoring the Hornets 14-2 in the final three innings, the CPOs were easy winners against the winless Hornet squad. Purdy hit for the circuit with a home run, triple, double and three singles. He was also the winning pitcher.

VX-5 14, Bears 10
Maintaining their grip on second place, VX-5 nipped the Bears. They overcame a seven-run rally in the final two frames by the Bears. Harmon picked up the win on the mound, allowing 13 hits.

Doc's 19, Devils 12
Coming from behind in the fourth inning, the Doc's rallied to grab their 14th win of the year against the Devils. Blevins homered while Ruiz had a triple.

Doc's 19, Devils 12
Chilton surrendered 21 hits in the loss while the Devils touched Bookout for 16 hits. Springer's triple was the only extra base hit of the game for the Devils.

Doc's 19, Devils 12
Walker's home run and a pair of doubles off the bat of Washburn keyed the winning attack. Walker and Blevins had three hits each while Bookout was the winning pitcher.

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Military Softball Standings		
	Won	Lost
Doc's	14	2
VX-5	13	3
Bears	10	6
Outlaws	9	7
NWCO's	7	8
Devils	6	10
CPO's	4	12
Hornets	0	14



The Skipper Sez...

QUESTION

Civilian — My question is, am I mistaken or have I seen a couple of instances in the past couple of weeks when I've had an opportunity to be outside at colors where people ignored both raising of the flag and the National Anthem? I was standing right outside Michelson Lab about two weeks ago and they started playing the anthem and some fellow just kept right on walking into the Lab and never bothered to turn around or anything. Is this a commonplace thing or are we going to have to expect to see something like this? I think it's a shame. Thank you very much.

ANSWER

It is my policy that everyone on this Center observe colors and give proper respect to our flag and the National Anthem. I can only assume that people forget the time of day and are not reminded unless they can actually see or hear colors being sounded.

Most of us know that colors are sounded at 0800 every day and again at sunset. For the military rendering honors to the flag and National Anthem is a requirement. For civilians it is a matter of respect and honor to our flag and National Anthem.

Patriotism is important to me. Questions such as yours is proof to me that patriotism is important to a lot of other people as well. Hopefully this small commentary will remind us ALL to be alert to colors at 0800 and to give our flag proper respect.

QUESTION

Civilian Employee — We could use some new motorcycle parking space at both ends of Mich Lab. These gas-saving vehicles are popular, and it gets quite difficult to find a parking space. Thank you.

ANSWER

I had your question researched and I am told that there presently exist enough parking spaces for motorcycles. For your information, motorcycles may be parked in the overflow parking lots the same as any other vehicle. There also exist additional motorcycle spaces adjacent to the fence inside the compound at the north entrance that are not utilized most of the time.

One word of caution when parking large cycles on the asphalt during the hot weather — the kickstand tends to cut into the asphalt, causing the cycle to tip over.

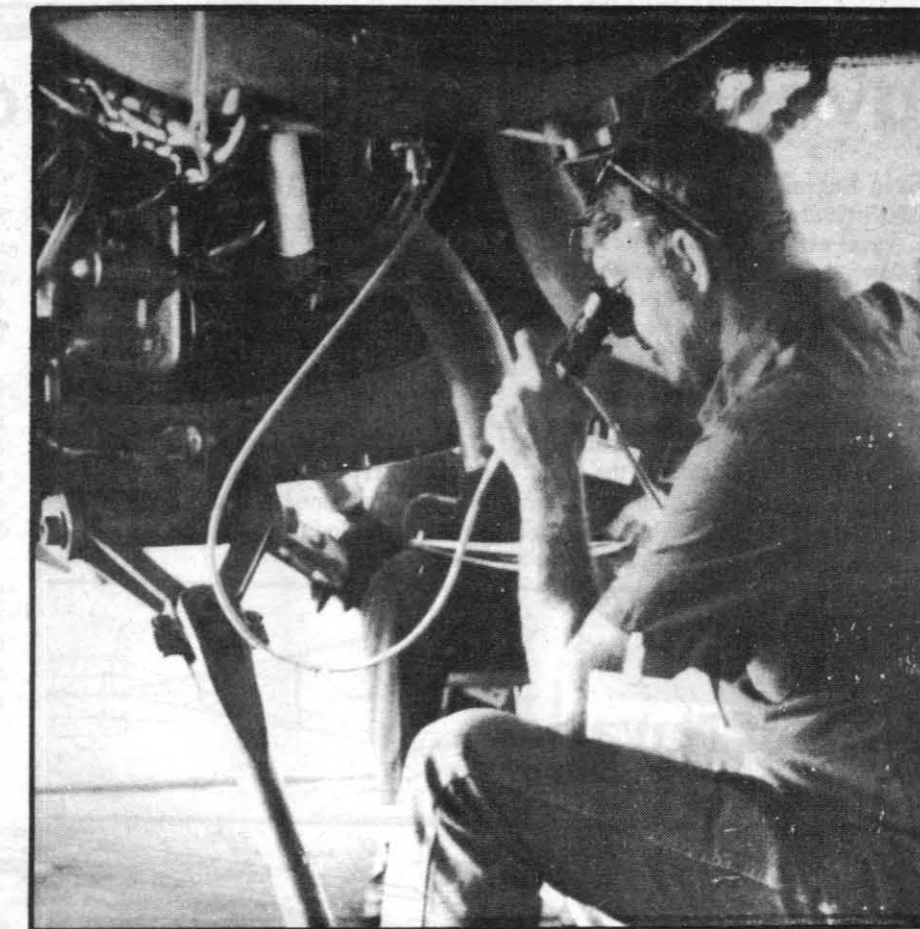
QUESTION

Two attempts to produce satisfactory railroad-crossing on Sanquist Road have failed. The train doesn't run anymore. Why don't we pave those crossings and avoid bouncing over the railroad tracks at the start and end of each day? Thank you.

ANSWER

Thank you for your concern and observations. The railroad tracks will be removed and the roadway repaired under one of our paving contracts. This should occur within the next six months.

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



CAREFUL CHECK — The engines of each of the Center's A-7E Corsair II aircraft were carefully inspected after the Navy flight restricted a number of these aircraft because of faulty turbine blades that caused engine failure and subsequent crashes. The inspection team examined each turbine blade to determine if any had the serial numbers of the blades known to be faulty; doing this called for hand-turning the engines. None of the Center's A-7E aircraft had any of the faulty blades, according to Cdr. Dick Erickson, head of the Aircraft Support Division in the Aircraft Department. — Photo by PH2 Rick Moore

Timecard deadline advanced because of holiday weekend

All personnel who are responsible for the submission of timecards are reminded that because of the Labor Day holiday on Monday, Sept. 2, timecards for the regular workweek ending Aug. 31 must be turned in by 4:30 p.m. on Tuesday, Aug. 27.

This is necessary in order to meet the normal payday of Sept. 6. No timecards are to be held out, since failure to provide the Payroll Office with an accurate timecard by the Aug. 27 deadline may result in a delay in pay for the employees.

To meet next Tuesday's deadline, it will be necessary for departments to project or estimate what will occur on Wednesday,

Thursday, Friday and Saturday. On Wednesday afternoon, if it is discovered that timecard projections are in error as submitted, the error can be corrected by submitting a corrected timecard, annotated as being a corrected card, between 11 a.m. and 3:30 p.m. Errors discovered after that date should be corrected by sending a memorandum to the Payroll Office, Code 08641, the following week.

Any overtime worked after 4:30 p.m. on Tuesday, Aug. 27, through midnight on Aug. 31, should be submitted on a supplemental time-card for payment during the next pay period.

New PW Officer has first exposure to desert

Captain Ralph Cugowski, the Center's new Public Works Officer, says that this is his first exposure to the desert. He adds that he's served in another isolated post, however, and that he feels that China Lake has a few things in common with that assignment.

Which, for China Lake, is quite a compliment because his other remote area assignment was as Commanding Officer at the Presidential retreat at Camp David.

"That assignment is always held by a Naval Civil Engineer Corps officer," he notes, "even though the personnel there are not just Navy but triservice." He was at Camp David for four years — three during the Carter administration and one during the first term of President Reagan.

Leading to that assignment, he had been the Special Program Officer (actually, a White House liaison) for the Chesapeake Division of the Naval Facilities Engineering Command.

Other recent assignments include four years in Hawaii (on two separate tours of duty), serving as Executive Officer at the Public Works Center at Pensacola, Florida, and, immediately prior to his assignment to China Lake, serving as Executive Officer of the Naval Construction Battalion Center at Gulfport, Mississippi.



HAPPY TO BE HERE — Capt. Ralph Cugowski, new Public Works Officer, feels that the role of Public Works is to support the mission of each base, "and the scope of that mission is much larger here."

"It's just as hot here as in Mississippi," Capt. Cugowski says, "but it's sure a lot drier in the desert and a lot more pleasant with less humidity. However, the change in vegetation is amazing."

The vegetation that he appreciates most at China Lake is the green golf course. He says that he and his wife, Hanako, are both avid golfers.

He's also looking forward to dropping a line into the trout streams in the area.

A native of Dothan, Alabama, (a relatively small town, according to Capt. Cugowski), he holds a bachelor's degree in architecture from Auburn University at Montgomery, Alabama, as well as a master's degree in civil engineering and construction management from Georgia Institute of Technology.

He's enthusiastic about his assignment to China Lake because he believes the role of any Public Works is to support the mission of each base, "and the scope of that mission is much larger here."

"There's a lot of work on the Public Works platter here," Capt. Cugowski notes, "and I believe that our efforts should be formed on being as supporting and responsive to the needs of our customer as we can. I look forward to my time here."



KEEPING COOL — Inner tube water polo competition sponsored by NWC's Recreational Services Division is one way to keep cool this summer. The games are held Monday evenings in the NWC Gym pool starting at 7 p.m. — Photo by PH2 Rick Moore

Hot, dry weather brings more bears to mountains

Lots of California black and cinnamon bears are startling hunters, campers, hikers, — and those who live in the mountainous areas of California this summer.

The dry year seems to have brought these animals more into the populated areas, is the opinion of Department of Fish and Game officials.

The bears usually are not happier to be surprised by people than people are by the bears, they say. If anyone suddenly comes upon a bear, they recommend that the individual make lots of noise. Bears that are shouted at tend to turn and run rapidly from the scene.

Department of Fish and Game officials also recommend that any camper be sure to put all food out of reach of bears by hanging it from a tree — at some distance from where sleeping bags are laid. Bears can break into ice chests, even if these are placed in vehicles.

They especially point out that while bear cubs are very cute, mother bears are extremely protective of their cubs, and are not able to understand that all a human may want to do is to pet the little balls of fur. Avoid cubs, no matter how appealing they may be, is the DFG warden's strong suggestion.

Naval aviators saw first combat at Veracruz

Between Eugene Ely's first flight off a Navy ship in 1910 and the outbreak of World War I, Naval aviation in the United States grew slowly. Highlights included Glenn Curtiss's demonstration in 1911 that an aircraft could land and take off from water, and Rear Admiral Bradley Fiske's 1912 patent on a device permitting an aircraft to carry and release a torpedo.

In 1913 Naval aviators who had trained at an aviation camp established at the Naval Engineering Experiment Station across the Severn River from the Naval Academy and those few trained elsewhere were ordered

to Guantanamo Bay to take part for the first time in fleet exercises. They proved they could detect submerged submarines, sight "enemy" surface vessels, and take photographs from heights up to 1,000 feet.

The Navy's aviators saw their first combat duty in Veracruz in 1914, during a punitive expedition waged by the United States against a revolutionary government in Mexico. Five seaplanes flew reconnaissance, reported troop movements, and took pictures. One of these aircraft picked up a bullet hole in its tail, but was not shot down.

When World War I began, the United States Navy had 43 pilots, five of which were Marine Corps officers; 239 enlisted personnel; and an aerial fleet consisting of 45 seaplanes, six flying boats, three land planes, and one airship.

When that war ended 19 months later, 6,716 Navy officers proudly wore their golden wings, enlisted personnel numbered 30,963, and the Navy had 2,107 aircraft. In addition, 282 Marine Corps Officers were designated as aviators, and 1,180 enlisted Marine Corps personnel supported these.

World War I Naval aviation activities included patrolling for submarines, protection of convoys, scouting missions, and a few bombing missions. The first Medal of Honor awarded to a Naval aviator was won on August 21, 1918 by Ensign George H.

Hammann for his rescue of Ensign George H. Ludlow, who had been shot down in a dogfight. The only official ace for the Navy was 19-year-old Lt. Dave S. Ingalls, who shot down the requisite five enemy aircraft during a few weeks of battle.

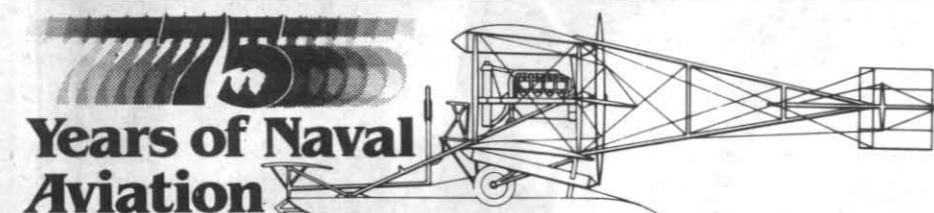
Shortly after the end of World War I, the United States Navy was involved in another first: the first transatlantic crossing by air.

The Navy had earlier taken delivery of four NC (Navy-Curtiss) flying boats built for antisubmarine patrol work. These huge flying boats had four engines with 1,600 horse power, weighed 14 tons each, and had a wingspan only 4 feet under that of the modern Boeing 707 aircraft. They had been designed to fly the Atlantic, although no aircraft had yet performed such a feat.

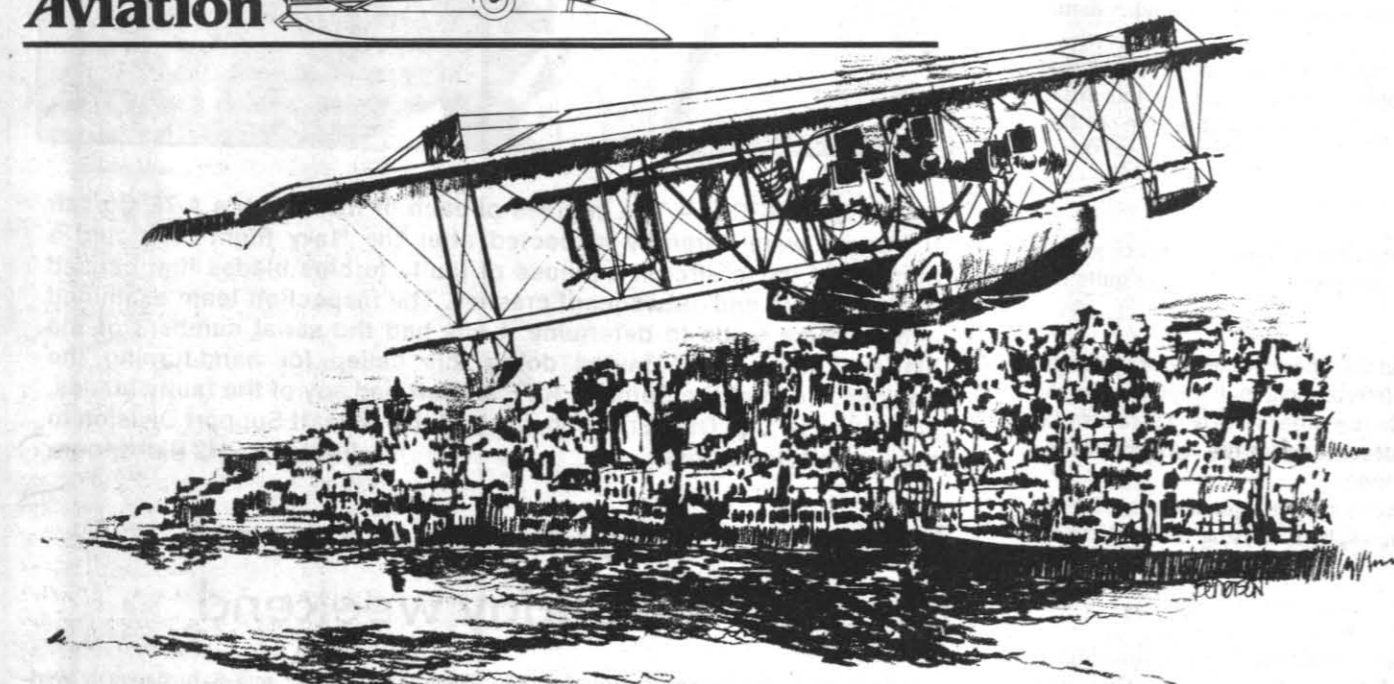
On May 16, 1919, the NC-1, NC-3, and NC-4 lifted off from Trepassey Bay, Newfoundland, and headed southeastward. They intended to use a chain of 41 American destroyers posted as navigational aids to help them fly their route to the Azores, Portugal, and then England.

The NC-1 and NC-3 ran low on fuel and had to land on the sea. The six men of the NC-1 were taken on board a Greek merchant ship; those of the NC-3 turned the tail of their aircraft to the wind to use it as a sail and rode with a storm for 62 hours before turning on their engines and taxiing into a port.

The NC-4 landed in Horta harbor in the Azores 15 hours and 13 minutes after leaving Newfoundland. Ten days later it lifted off again, landing at dusk in the mouth of the Tagus River near Lisbon, Portugal on May 27, to complete the first Atlantic aerial crossing. The NC-4 then proceeded to Plymouth, England, to complete its scheduled flight.



75 Years of Naval Aviation



Anna McDuff joins select few to earn 40-year NWC award

Joining the select few who have completed 40 years of service at Naval Ordnance Test Station/Naval Weapons Center recently is Anna K. McDuff, a rehired annuitant serving as a management analyst in Central Staff.

She received her 40-year NWC pin in a recent ceremony held in the Commander's Office, when Capt. K. A. Dickerson presented the pin to her. Present at the ceremony were Mrs. McDuff's husband, Edgar; Dr. Richard Kistler, head of Central Staff; and Dr. Mary Frost, Mrs. McDuff's division head.

Mrs. McDuff adds this pin to the 40-year



JOYOUS OCCASION — Anna McDuff, a management analyst in Central Staff, is congratulated by Capt. K. A. Dickerson for receiving her second 40-year pin — this one for 40 years of service at NWC. She received her federal 40-year pin in 1983. — Photo by PH2 Rick Moore

federal service pin that she received in November 1983; her federal employment began in 1943 at the Naval Air Station in Alameda, Calif., not far from her home town of Mountain View.

In 1944 she transferred to what was then the Naval Ordnance Test Station, Inyokern, where she worked as a fiscal accounting clerk until 1945. She became a clerk-stenographer in the Supply and Accounting Department in 1946, which led to her becoming an administrative analyst, in the Special Projects office. She rejoined Central Staff as a management analyst in 1981 and has continued to work in that role since.



China Lake Police Reports

Unknown persons removed a Motorola radio from the Randsburg Wash area. The missing radio's value is \$1,400.12.

The windshield of a vehicle parked in the Site B Capeharts was broken by an unknown person. Cost of this vandalism is estimated to be \$175.

When one driver failed to yield to another vehicle in the Michelson Laboratory parking lot, the two vehicles collided. Moderate damage resulted.

Two bicycles were stolen from the porch of a house on Ellis Street. The two bikes cost \$110.

A series of thefts from automobiles in the Site B Capehart area was reported by residents who had left their vehicles unlocked Thursday night. Items reported missing included a first aid kit, gloves and a tire gauge from one car; a cassette box with 20 tapes and a contractor's badge from another; a citizen's band radio from a third; a coax speaker and an NWC pass from still another; and sun glasses from another one yet. Missing that same night was a power booster, according to a late entry in the police log.

An air pressure regulator previously reported as missing has been recovered.

Residents of Shangrila Circle reported being bothered by noisy motorcycles. Police responded, and found that these were being ridden by 10-year-old boys.

A Pan American employee lost his wallet when someone removed it from his unlocked vehicle, which was parked at the ground maintenance building.

When an off-Center visitor caused a disturbance at a residence on Young Circle, China Lake police escorted him from NWC lands.

Police were called to remove two unauthorized individuals — both juveniles — from the BEQ at midnight. They were warned and advised about their unauthorized presence, and were escorted to their residence and released to their guardian.

A vehicle hit the Baker Road access gate due to brake failure. The driver was uninjured and the vehicle suffered minor damages.

A 16-year-old male was stopped and cited for an exhibition of speed in the 1800 block of Richmond Road.

During a traffic stop made on Inyokern Road, the subject was found to be driving with a suspended license. The subject will appear in East Kern Municipal Court as a result of the citation issued.

On Thursday, Aug. 15, a 14-year-old and a 16-year-old were apprehended in the Site B Capehart housing and were charged with vandalism, theft, drunk in public and a curfew violation. They had been entering vehicles and removing property, and they broke a vehicle windshield. Investigation in the case is proceeding.

High Court upholds 'Feres Doctrine' limitations

The United States Supreme Court has voted to uphold its 35 years old ruling that prevents active duty service members from suing the military for negligence.

Meanwhile, the DOD general counsel has told a congressional subcommittee he would welcome a review of the current military compensation program to ensure its benefits are adequate for victims of malpractice and other service-related injuries.

The Supreme Court's recent 8-0 decision overturned a lower court's ruling that the government was liable for the death of a service member killed by a fellow soldier. Both were off duty and off base at the time.

The decision was based on 1950 case, Feres vs. the United States, which essentially prevents service members from suing their commanders or the government for negligence associated with military duty. This limitation is commonly referred to as the "Feres Doctrine."

The Feres Doctrine is often linked with medical malpractice claims, but as the

Supreme Court case demonstrates, has broader implications.

In recent congressional testimony, DOD General Counsel Chapman B. Cox said the current military compensation system is more responsive to victims of malpractice and other service-related injuries than the civilian legal system. It offers compensation faster, with more predictability, and without hefty legal expenses for the victim and the taxpayer.

"The operation of the compensation system is fair. It is efficient; claims are expeditiously processed; it avoids needless waste of resources on legal costs; and it treats all service members consistently and with equality."

Cox said without the Feres Doctrine, service members would be "required to rely on the common law tort systems of the 50 states for compensation. Under these diverse systems, they will be subject to inconsistent treatment by reason of different state laws, different attitudes of juries and different quality of legal representation.

"In addition, they will suffer long delays in the judicial process and expensive resource drain from legal and related costs."

While emphasizing the benefits of the military compensation benefit system, Cox said DOD would support any necessary changes to ensure its fairness. "If the benefit structure is not considered ade-

quate, we would welcome congressional scrutiny and would be happy to work with the appropriate committees on developing proposed changes," he said.

Cox said the Feres Doctrine protects the interests of service members while maintaining the effectiveness of the military organization.

"The bonding which is essential to an effective military organization cannot exist in an environment which allows and encourages lawsuits between its members," he said. "Each decision-making process within the military provides an avenue of appeal or review while still preserving the essentials of discipline and chain of command."

"To permit this type of suit," Supreme Court Chief Justice Warren Burger said, "would mean that commanding officers would have to stand prepared to convince a civilian court of the wisdom of a wide range of military and disciplinary decisions, for example whether to discharge a serviceman, and whether and how to place restraints on a soldier's off-base conduct."



Military News



FOUR MORE IN AN A-4 — Aviation Electronics Technician First Class Doug Cross goes through the motions of his reenlistment with LCDR Len Fox, VX-5 Maintenance Officer, handling the oath duties recently at Armitage Field. (The actual reenlistment took place in the air but the photographer refused to be a

wing-walker.) AT1 Cross signed up for four more years, adding to his already accumulated nine years of active duty naval service. The Midland, Mich. native arrived at China Lake in February 1982. He is presently the Project Avionics technician for Air Test and Evaluation Squadron Five.

Traveler's illness seldom a joke

"He's got the trots" may be a laughing matter to some people, but how about when it happens to you?

The American Medical Association estimates that 20 to 50 percent of travelers to high risk areas in Latin America, Africa, the Middle East and Asia suffer from "traveler's diarrhea." The thousands of service members who may train in these areas each year are subject to the same problems.

This type of diarrhea is often caused by eating or drinking food or beverages contaminated by human waste. Raw vegetables, raw or inadequately cooked meat and seafood, tap water, ice, unpasteurized milk and other dairy products and unpeeled fruits are among the likely

culprits in the areas concerned.

Service members have one big advantage over tourists in avoiding these foods and their side effects — they can stick to food and water provided by mess facilities.

"We find that on overseas exercises, as long as troops consume water and food from the (military supply) system, there are few problems," according to Dr. (Lt. Col.) James W. Kirkpatrick, disease control consultant to the Army Surgeon General.

"Field sanitation is pretty good, and in most cases, if water comes from water trucks (or another source of 'safe' water) and food comes from food service sources, the chance of contamination is slight."

Paying meticulous attention to what you

eat, and where you eat it, is about the only way to prevent traveler's diarrhea, experts agree.

The best rule of thumb for service members who choose to sample the local foods, Kirkpatrick advise is, "if you can't boil it, cook it, or peel it, forget it."

Medical officials offer these other tips for eating on the local economy in developing countries:

— Stick to better restaurants.

— Don't buy from street vendors. They often sell the highest risk foods.

— Don't assume an eating establishment is OK simply because it's frequented by the local population. Locals build up a tolerance to the same bacteria that can make a tourist miserable.

Badge photos at Thompson Lab

Personnel from the Badge and Registration Section of the Security Division will be taking pictures and issuing the new government identification cards to civilian and military personnel in the HARM conference room at Thompson Laboratory on Monday from 7 a.m. until 4:30 p.m.

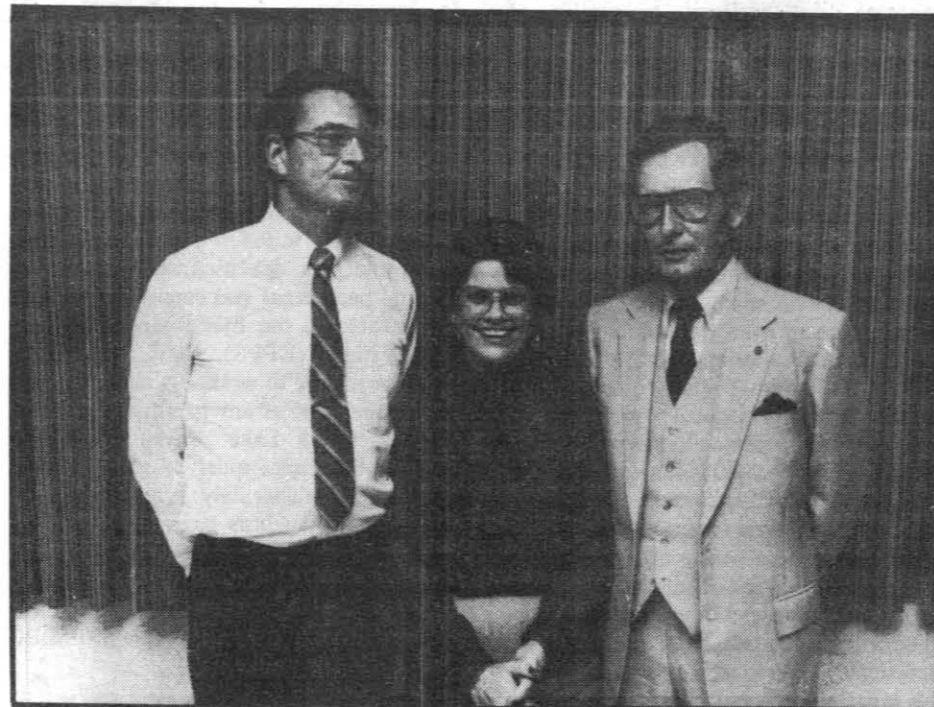
Tuesday through Thursday new identification cards will be issued in the Phase crew area on the main desk of Hanger 3 from 7 a.m. until 5 p.m.

Personnel are asked to come prepared to have their photograph taken. The photos will be used for the new Restricted Area Access Passes to be issued at a later date.

Center graduates honored at luncheon



CERRO COSO COLLEGE — Dean Paul Riley (left) stands with graduates of Cerro Coso Community College (from left) Robert Wise, James Knowles, Tammy Furnish, Theresa Smith, Cameron Bruce, Donna Uhlis and Roger Turcotte.



LONG-TERM TRAINING — William Shaner (left) and Kay Delger, graduates of Long-Term Training courses stand with Dr. Edward Kutchma, Head, Aircraft Weapons Integration Department and the Long-Term Training Committee.



NORTHRIDGE — Cal-State Northridge officials (from left) Dean Berchell, Prof. Jagdish Probhakar, Dean Alphaso Ratcliffe and Prof. Orlando Madrigal (right) join Northridge graduates Janice Zeanon, Dean Charles Urbanowitz and Robert Hemingway.



CALIFORNIA STATE BAKERSFIELD — Graduates of CSB's programs standing with Dr. Harry Kelsey of the college are (front from left) Peggy Robison, Kit Driscoll and Eric Kajiwara. Back row; Cheryl Couthlin, Elizabeth Babcock, Charles Hawthorne, Bill Blanc, Donetta Cappello and Jonathan Osgood.

Demo Project videotape on hand

A one-hour, 16-minute videotape on "Performance Planning and Assessment for Demo Personnel" is now available for use by individuals at the learning center or for loan to work groups for use on-site.

The 3/4-inch videotape was made by Jerry Stein. It covers the performance planning, monitoring and assessment process under the demonstration project.

By viewing it, personnel can learn to

identify critical elements and use of PACs to write good performance plans. In addition, there is an overview of the demonstration project at NWC, and an explanation of pay-out as it relates to ratings and what the latest changes in the system are and how they affect local personnel.

Further information about the videotape can be obtained by telephoning Ophelia Davis at NWC ext. 2686.

NOTICE REGARDING TRAINING CLASS LOCATIONS

During the next few months while the Training Center is temporarily closed, classes will take place in various locations in the valley. Notification of the exact location and directions on how to get there will be attached to the copy of your training request sent back to you indicating the approval of your enrollment.

There have been a few instances where the student has not received the enrollment approval prior to the start of the class, leading to lost time and effort trying to find the class.

If you have not received an enrollment form by 1 p.m. on the day prior to the start of a class you are planning to attend, call the appropriate number (listed below) to verify your enrollment status and the exact location of the class.

Professional/Technical	NWC ext. 2359
Supervisory/Management	NWC ext. 2349
Safety/Security/Supply	NWC ext. 2349
General Skills/Clerical/EEO	NWC ext. 2686
Academic/Trades	NWC ext. 2648

personnel development opportunity



ADVANCED SURFACE DESIGN (40 hours)

9-13 September. 0730-1630, Trailer 1410.
Prerequisite: **ADVANCED MECHANICAL DESIGN.**

Scope: This laboratory-centered course will teach designers how to create surface representations of parts.

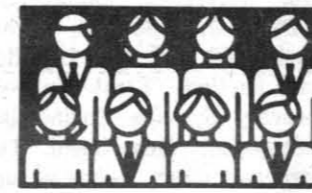
Deadline: 26 August.

MAKING IT COUNT - COMPUTER FUNDAMENTALS (26 hours)

10 September-22 October; Tuesday and Thursday (0800-1000), Annex 1. By: Daryl Vaughn.

Intended audience: Beginning computer students (all levels).

Scope: This course consists of the Boeing Computer Services videotape lecture series and workbook exercises "Making It Count." It will give you a fundamental understanding of computer concepts, history, vocabulary, programming languages, hardware, procurement, program design, and career opportunities in computing. An instructor will be available to answer questions.
Deadline: 27 August.



Personnel News & Notes

No. 27 August 23, 1985 Naval Weapons Center, China Lake, California 93555 6001

Promotional Opportunities

Applications for positions listed in this column will be accepted from current, permanent NWC employees and from eligible employees of attached activities who are permanently assigned to NWC unless otherwise specified in the ad. 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 addresses the specific Knowledges/Skills/Abilities (KSAs) cited in the ad. Write the position title/series/level and announcement number of 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. CS-8543, Recreation Aid, PS-0189-04, \$4.89 per hour, Intermittent Scheduled, Code 2227 — Incumbent provides assistance to Youth Activities Director in the supervision and training of attendants. Makes sure daily records and inventories of equipment are kept accurately and is responsible for safe-keeping and maintenance of supplies and equipment. Promotes all related programs and performs other subsidiary jobs necessary for the function of the Youth Center. Must have some supervisory experience in recreation/athletics, or youth programming and have the ability to work well with all ages of children. This is not a Civil Service position.

No. 08-037, Computer Scientist, DP-1550-2/3, Code 08B1 — This position is located in the Standard Automated Financial System (STAFS) Project Management Office. The incumbent is configuration manager for STAFS and associated administrative automated information systems. He/she is responsible for the development, implementation, operation and maintenance of the STAFS CM policies, plans and procedures for control of hardware, software and documentation. He/she will specify and oversee the design, development, implementation, operation and maintenance of the STAFS CM data base using Softool CCC on a VAX computer. He/she is a voting member of the STAFS configuration change board and is responsible for the proper operation of the configuration change and control process. Job Elements: Knowledge of configuration management principles and practices; ability to use automated data base systems; and ability to communicate both verbally and in writing are desirable. Promotion potential to DP-3. Status eligibles may apply. Previous applicants need not reapply.

No. 08-042, Operations Research Analyst, DP-1515-2/3, Code 081 — The positions are located in Central Staff, Weapons Systems Cost Analysis Division. Primary activities include the development of cost estimating relationships and/or specialized cost models based on cost as a function of system/subsystem, physical/technical/ and in writing are desirable. Promotion potential to DP-3. Status eligibles may apply. Previous applicants need not reapply.

No. 08-038, Interdisciplinary (Computer Specialist/Computer Systems Analyst/Program Analyst/Engineering Data Management Specialist/Quality Assurance Specialist), DS-334/301/1910-2/3, DP-334/345/301/1910-3, Code 08B1 — This position is located in the Standard Automated Financial System (STAFS) Project Management Office. The incumbent is configuration manager for STAFS and associated administrative automated information systems. He/she is responsible for the implementation and maintenance of STAFS CM plans and procedures for control of hardware, software and documentation. He/she will oversee the design, development, implementation, operation and maintenance of the STAFS CM data base using Softool CCC on a VAX computer. He/she is a voting member of the STAFS configuration change board and is responsible for the proper operation of the configuration change and control process. Job Elements: Knowledge of configuration management principles and practices; ability to use automated data base systems; and ability to communicate both verbally and in writing are desirable. Promotion potential to DP-3. Status eligibles may apply. Previous applicants need not reapply.

performance parameters, or as a function of an industrial engineering type assessment of drawings, specifications, etc. Job Elements: Ability to handle problems or assignments of marked difficulty; ability to think through a problem and approach to its solution; knowledge of weapon systems and quantitative analysis techniques; familiarity with computer technology and ability to express ideas both orally and in writing.

No. 08-043, Editorial Assistant, GS-1087-4/5, Code 0823 — Edits and types highly specialized and complex technical and statistical reports, manuals, contracts, and materials in the Word Processing Center, Office Systems Support Branch, Central Staff. Assists in training newly hired clerical personnel in office procedures and use of word processing equipment. Job Elements: Knowledge of Navy Correspondence Manual, NWC Editorial Style Guide, Security Manual, Plain Language Address Directory and administrative practices and procedures; knowledge of editorial procedures and grammatical construction; experienced in the use of IBM Displaywriter desired. Status eligibles may apply.

No. 08-044, Clerk-Typist, GS-322-3/4, Code 08231 — Types complex statistical reports, manuals, and administrative materials in the Word Processing Center, Office Systems Support Branch, Central Staff. Job Elements: Knowledge of Navy Correspondence Manual, Security Manual, Plain Languages Address Directory; knowledge of grammatical construction; experience in the use of IBM Displaywriter desired. Status eligibles may apply.

No. 09-55, Clerk-Typist, Staffing Clerk (Typing), GS-322-4/203-4/5/6, Code 092 — Incumbent is the central point of contact for individuals interested in employment with NWC or the Federal government. Incumbent counsels prospective employees regarding the eligibility and application procedures; serves as central coordinator for OPM certificates of eligibles; coordinates registration of employees in the Overseas Employment Program, Priority Placement Program, and Automated Career Management System; coordinates certificates of eligibles with OPM. Elements: Knowledge of the Federal employment process. Ability: to meet and deal with the public; to interpret and apply complex regulations; to communicate verbally; to assume increasing responsibility.

No. 14-134, Interdisciplinary Physicist/Computer Scientist/Mathematician/Electronics/Aerospace/General Engineer, DP-1310/1550/1520/885/860/801-2/3, or Computer Systems Analyst, DS-334/3, DP-334-3, Code 412 — This position is that of Project Manager for the Software Engineering Environment-Insertion of Technology (SEE-IT) Project, located in the S&E Applications & Tools Branch (Code 1412), User Technology and Applications Division, in the information Systems Group. The SEE-IT project involves requirement analysis, design, and procurement/development of software engineering tools for VAX and IBM PC-compatible workstations. The incumbent coordinates and manages the technical tasks such as prototype hardware/software evaluations, system and requirements analysis, managing workstation configuration, system procurement, and the technical liaison with S&E users across the Center. Serves as the point of contact for the project as it relates to other DOD and local efforts. Job Elements: Experience in software development; ability to deal effectively with all levels of Center personnel; familiarity with MS-DOS operating system, VAX and IBM PC-compatible hardware and software desirable. Promotion potential to the DP-3 level, if filled at the DS-3 or DP-2 level, is not guaranteed. Status eligibles may apply.

No. 24-153, Supervisory Firefighter, GS-081-7, Code 2421, (2 Vacancies) — Supplemental Qualifications Statements are required. Incumbent will be responsible for the direct supervision of the firefighting crews at one of the three fire stations. KSAs: Knowledge of all phases of firefighting involving weapons, aircraft structures, flammable liquids and explosives; of all instructions designated by OPNAV, NAVMAT, NAVAIR and NAVFAC pertaining to fire prevention and fire protection as well as Fire Division instructions; of firefighting and rescue equipment. Ability to communicate with others effectively both orally and in writing; to provide incentives, train and work effectively with subordinates; to plan initial attack and place firefighting equipment to facilitate rescue and best control to extinguish fires; to supervise personnel or demonstrated supervisory potential; to schedule and complete all maintenance requirements for fire hydrants, fire hose, fire extinguishers, etc. Must support EEO Program goals and objectives.

No. 24-154, Fire Protection Inspector, GS-081-6/7, Code 24201 — (4 Vacancies) — Supplemental Qualifications Statements are required. Incumbent makes continuous inspections of buildings, their contents, utilities and surrounding areas, of processes and operations in regularly assigned areas; recommends corrective action to area responsible, makes written reports and makes follow-up inspections; reviews plans for new construction and extension of existing structures recommending changes and additions to ensure compliance with fire prevention and protection requirements. Incumbent tests, services and installs fire equipment, fire doors, sprinkler systems, alarms, etc. Presents fire prevention training and instructions, and conducts evacuation and fire drills. KSAs: Knowledge of principles of fire prevention inspection; of operations performed in assigned area; of physical layout of NWC, including NAF. Support Federal EEO Program goals and objectives.

No. 25-082, Procurement Clerk, GS-1106-4/5, Code 2522 — Incumbent is a follow-up clerk and is responsible for interfacing with Center departments' vendors to expedite delivery of materials. Incumbent will utilize an On-line Automated Supply Information System (OASIS) to initiate tracer actions and update delivery status. Incumbent is responsible for maintaining proper contract file documentation and initiating contract administration documents required as a result of follow-up actions. Job Relevant Criteria: Knowledge of: procurement regulations. Ability to: work with automated management information systems; communicate both orally and in writing; exercise a high degree of tact and diplomacy in relationships with customers and vendors. Promotion potential to GS-5.

No. 26-189, Facilities Management Specialist, DA-1640-3, Code 26B06 — This position is the Production Liaison Officer for the 03 Directorate, and reports directly to the Associate Department Head for Production, Code 26B. The incumbent's duties include providing the 03 Directorate with long and short range planning of Public Works support; maintaining communications of job status between Facility Contacts and PW principals; provides training to customers on how to best achieve PW support; provides special management support to Code 26B as required; and coordinate indefinite quantity contract scheduling. Job Relevant Criteria: Knowledge of Public Works maintenance and support operations; general knowledge of building fire and safety codes; practical knowledge of construction trades and skills; the ability to work independently; ability to communicate both orally and in writing and have good interpersonal skills.

No. 31-193, Interdisciplinary Electronics Engineer, DP-855/Physicist, DP-1310/Mathematician, DP-1520/Operations Analyst, DP-1515-3/4, Code 3158 — This position is that of project engineer for advanced development of target recognition systems for missiles. The incumbent will be responsible for the transition of current targeting technology into air-to-air and air-to-surface missiles. The task requires experience in missile guidance systems, signal processing, and project management. Experience and training in radar systems, pattern recognition, infrared sensor (FLIRs/IRSTS), advanced computer systems, tactical computers, structured software design, ADA, and systems or operations analysis would be beneficial. The Targeting Division (Code 315) will be looking at a possible parallel implementation of targeting system with and without VHSIC. Elements: Skill in algorithmic system development, project engineering/management, signal processing, and analysis. Ability to produce professional reports and briefings. Ability to work well with management and highly technical personnel. Promotion potential to DP-4 but not guaranteed.

No. 31-195, Administrative Officer, DA-341-1/2/3, Code 31102 — This position is the Administrative Officer for the Avionic Facilities Division, Aircraft Weapons Integration Department. The incumbent identifies administrative and management problems within the scope of the division and recommends alternatives. Incumbent is responsible for project and overhead financial management, personnel management, contract management, equipment acquisition, and space resource planning and projection, and participates in division and department administrative and management meetings. The incumbent also provides direction and guidance to the administrative staff. Job Relevant Criteria: Ability to exercise fiscal controls under NIF System; knowledge of personnel standards and functions; ability to review and monitor contracts/procurements. Ability to administer management policies and guidelines.

No. 33-028, Supervisory (Interdisciplinary) General/Electronics/Mechanical Engineer, DP-801/855/830-3/4, Code 3352 — This position is head, Air-Launched Weapons Fuze Branch. Functions of the branch are: Design, development, test, evaluation, and document electromechanical fuzes, safety-arming devices for air-launched weapons and rocket motor arming-firing devices for Navy missiles. Provide technical support to SYSCOMS and Fleet for entire life cycle of fuzes, S-A/A-F devices. Job Relevant Criteria: Knowledge of electromechanical systems, engineering development and production processes; ability to direct, train, and provide leadership to a multidisciplinary group; communicate clearly and effectively both orally and in writing; interface with sponsors, contractor's and NWC management; willingness to support NWC EEO goals and policies. Promotion potential is DP-4; however promotion is subject to review and approval of Center Management. Reassignment only at DP-4 level.

No. 35-081, Supervisory Interdisciplinary (Electronics Engineer/Computer Scientist/Physicist/Mathematician), DP-855/1550/1310/1520-2/3, Code 35124 — Serves as the head of the Mission Survivability Section, Electronic Warfare Analysis Branch. Responsibilities include: Conducting analysis and trade studies at the mission level; utilizing data generated by the IR/EO CM Section (Code 35123) and the RF CM Section (Code C5123), to determine the capabilities of airborne ECM to decrease aircraft attrition and support mission success; and developing and maintaining scenario and many-on-many simulation. KSAs: Knowledge of Electronic Warfare Analysis Simulation, Radar and Electro-optical/infrared (EO/IR) Systems. Ability to technically direct and supervise a group of multi-disciplined engineers; interface with all levels of on-Center personnel, both military and civilian, with contractors, and with off-Center organizations including

high level sponsors; communicate well both orally and in writing; plan and utilize resources; manage program schedules and funds assigned to the section. Promotion potential: DP-3.

No. 35-082, Supervisory Interdisciplinary (Electronics Engineer/Computer Scientist/Physicist/Mathematician), DP-855/1510/1310/1520-2/3, Code 35122 — Serves as the head of the Infrared/Electro-optical Countermeasures (IR/EO CM) Section, Electronic Warfare Analysis Branch. Responsibilities include: conducting analysis and trade studies in the area of IR/EO airborne countermeasures (CM) in order to characterize performance and establish requirements in support of requests for proposals (RFPs) and specifications; and maintaining and developing digital simulation models in support of these analysis and trade studies. Countermeasures include expendables, warning receivers, jammers, decoys, reduced observability, and ARMS. KSAs: Knowledge of Electronic Warfare Analysis Simulation, Radar and Electro-optical/Infrared (EO/IR) Systems. Ability to technically direct and supervise a group of multi-disciplined engineers; interface with all levels of on-Center personnel, both military and civilian, with contractors, and with off-Center organizations including high level sponsors; communicate well both orally and in writing; plan and utilize resources; manage program schedules and funds assigned to the section. Promotion potential: DP-3.

No. 35-083, Supervisory Multidisciplinary (Electronics Engineer/Computer Scientist/Physicist/Mathematician/Electronics Engineering Technician), DP-855/1550/1310/1520/802-2/3, Code 35123 — Serves as the head of the Radio Frequency Countermeasures (RF CM) Section, Electronic Warfare Analysis Branch. Responsibilities include: conducting analysis and trade studies in the area of RF airborne CM in order to characterize performance and establish requirements in support of Requests for Proposals (RFPs) and specifications; and maintaining and developing digital simulation models in support of these analysis and trade studies. Countermeasures include expendables, jammers (SOJ and DECM), warning receivers, reduced observability, and ARMS. KSAs: Knowledge of Electronic Warfare Analysis Simulation, Radar and Electro-optical/infrared (EO/IR) Systems. Ability to technically direct and supervise a group of multi-disciplined engineers; interface with all levels of on-Center personnel, both military and civilian, with contractors, and with off-Center organizations including high level sponsors; communicate well both orally and in writing; plan and utilize resources; manage program schedules and funds assigned to the section. Promotion potential: DP-3.

No. 61-076, Equipment Specialist, DS-1670-1/2, Code 6143 — (Multiple Vacancies) This position is located in the Air-Launched Ordnance Branch of the Ordnance Division of the Weapons Department. The incumbent will perform duties that include: Weapons assembly, functional checks/tests as required, weapon modification. Job Elements: Knowledge of weapons assembly procedures and components that make up a complete weapon, knowledge of safety practices and procedure of ordnance handling, knowledge of weapons checkout procedures. Ability to interpret technical instruction, ability to communicate effectively orally and in writing. Status eligibles may apply. Promotion potential DS-2.

No. 622-030, Ordnance Mechanic/Helper/Repair, WG-6641-5/8/10, Code 6222 — Supplemental required, multiple vacancies — This position is located in the Operations Section of the Track Operations Branch within the Range Department. The incumbents' responsibilities are to receive, ship, transport, and store ordnance materials; assist with mechanical modifications, assemblies and installations in support of track operations and tests; handle all aspects of ordnance involvement relating to test activities. Job Elements: WG-6641-5 Applicants will be rated on the following: (1) Reliability & dependability (2) ability to handle weights and loads (3)

ability to follow directions in a shop, (4) dexterity and safety WG-6641-8/10. Applicants will be rated on the following: (1) knowledge of equipment assembly, installation, & repair, (2) ability to use, operate and maintain tools and equipment in the trade; (3) ability to read, interpret and apply the instructions; specifications/blueprints; (4) ability to use measuring instruments in the trade; (5) ability to find trouble, determine methods of repair, and use appropriate tests; (6) ability to perform theoretical, precise, and/or artistic tasks of the trade.

No. 6204-012, Facility Management Specialist, DS-1640-2, Code 6204 — This is a temporary assignment, not to exceed one year. The incumbent will be assisting the Facility Manager of the Junction Ranch Radar Cross-Section Range in maintenance, repairs, and improvements of the range; and target handling during test periods. The incumbent will work a "first forty" schedule. Job Relevant Criteria: Knowledge of range facilities; ability to deal effectively with all levels of personnel across organizational lines; ability to read and understand blueprints and drawings; ability to solve minor facility problems on own initiative.

No. 64-128, Aerospace Engineering Technician, DT-802-A, Code 6412 — This position is located in the Logistics Management Section, Fleet Support Branch, Recovery Systems Engineering Division, Aerosystems Department. The incumbent provides direct technical support to the Fleet via message and telephone communication. Responsibilities include evaluation of service deficiencies and conduct of engineering investigations on emergency and premeditated parachute systems. Develops and implements solutions in logistics management, including; preparation and validation of procedures for inspection, rigging, packing, repair, documentation, and marking. Prepares source data for annual changes, including: maintenance plans, maintenance procedures. Maintains liaison with Fleet maintenance organizations. This is a training position, incumbent works under close supervision and assists senior level technicians in performance of work assignments and receives on-the-job training. Job Elements: Knowledge of parachute maintenance and operation; ability to communicate effectively orally and in writing, ability to interface with military and civilian personnel. Promotion potential DT-3.

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 inlined with 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. 14-143, Secretary (Typing), GS-318-3/4, Code 1423 — The incumbent provides clerical and administrative support to the Head, Telephone Administration Office. Promotion potential GS-5.

No. 24-152, Secretary (Typing), GS-318-4/5, Code 242 — Provides secretarial support to the NWC Fire Division. Promotion potential to GS-5. Status applicants may apply. Previous applicants need not re-apply.

No. 32-183, Secretary (Typing), GS-318-4/5, Code 3288 — Provides secretarial support to Weapons Systems Branch "B". Knowledge and working skill on a Xerox 640 desirable. Status eligibles may apply. Promotion potential is GS-5.

No. S-39-077, Secretary (Typing), GS-318-5, Code 3921 — The incumbent provides

secretarial support to the Branch Head of the Weapons Control Branch, Code 3921.

No. S-39-078, Secretary (Typing), GS-4/5, Code 3957 — Provides secretarial support to the Radar Guidance Branch, Weapons Department. If filled at the GS-4 level, promotion potential to the GS-5 level is not guaranteed.

No. 64-112, Secretary (Typing), GS-318-5, Code 6424 — This position is located in the Telemetry Systems Branch and provides clerical support to that office.

No. 6202-011, Secretary (Typing), GS-318-4, Code 6202 — The incumbent provides secretarial support to the Range Department Staff Office and will be the CCP for the department. Promotion potential to GS-5 but not guaranteed

Kalman Filter class open

Five spaces are still available for a class on Kalman Filtering to be held Sept. 9 through 13 at the Antelope Valley Inn in Lancaster.

Ten of the 20 student spaces have been reserved for NWC personnel; the other 10 for personnel from Edwards Air Force Base.

The course is designed for scientists and engineers who want to know what Kalman Filtering is, including its theoretical origin, and how to apply Kalman Filtering techniques in problems motivated by physical systems.

Since systems-level performance predictions using simulation and/or test data is a large application area for Kalman Filter techniques, parts of classical statistics and statistical inference as well as Monte Carlo techniques for simulations are included in the course.

Instructor for the course is Dr. Joseph L. LeMay.

Anyone interested in attending the class should telephone Jeannie Craddock at NWC ext. 2359 promptly. In addition, prospective students will need to submit a DD 1556 off-Center training request form.

No. asf-85-66 LV, Copier/Duplicating Equipment Operator, GS-350-4, Navy Publications and Printing Service, Code 8300 — Duties: Sets up, adjusts, monitors, operates, and performs preventive and minor maintenance on a high-speed off-line electronic page printing system to produce printed pages from 9-track magnetic tape. Mounts magnetic tapes onto tape drive unit. Enters commands into CPU via keyboard to initiate EPPS software and describe the format of the jobs to be run. Controls all processing and printing of job(s) run. Reviews sample output copies to ensure continuing quality of printed pages. Interprets systems diagnostic messages and takes appropriate corrective action. May operate other equipment e.g., copier duplicators, diazo equipment, etc. and perform simple bindery functions. Qualifications: Applicants must have twelve months of equipment operating experience at the next lower grade level or at an equivalent level of operating difficulty of which nine months must be specific operating experience and three months of specialized operating experience. Specialized Operating Experience is expe-

rience in the operation of microform equipment, mail processing equipment, duplicating equipment or peripheral equipment. Specific Operating Experience is experience in the operation of xerographic or electrostatic copiers, telecopiers, magnetic computer tape to hard copy equipment, high-speed copier/duplicators, diazo equipment, photostate equipment, and fluid and stencil equipment. Elements: Knowledge of data processing and computer language techniques; ability to follow directions, instructions and job specifications; ability to operate peripheral and support equipment comparable to the Electronic Page Printing Systems (EPPS). NOTE: Candidate must be willing to work any shift, any day of the week and at any location of the NP-PSDBO, China Lake. Physical Requirements: Applicants must be able to occasionally lift moderately heavy (up to 50 lbs.) supplies such as boxes of paper. Applications (SF-171) and Supplemental Qualification Statement can be picked up at NP-PSDBO, Building 1041. Applications and supplements will be accepted at NP-PSDBO Building 1041.

Reassignment opportunities

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

No. 31-194, Interdisciplinary (Electronics Engineer, Computer Scientist, Physicist, Mathematician) DP-855/1550/1310/1520-2/3, Code 3112 — Position is for simulation Software Engineer/System Software Engineer located in the A-6 Facility Branch. Incumbent is a member of a team of software engineers developing simulation software and is the Facility Manager of the A-6 Gould, S.E.L. Computers. Incumbent will participate in reviews and walkthroughs of in-house and/or contractor-development software. To apply for this position forward a current SF-171 to B. Mierta, Code 31102, Phone ext. 5219.

Physicist/Computer Scientist/Mathematician/Electronics/Aerospace/Mechanical Engineer, DP-1310/1550/1520/855/860/830-2/3, Multiple Vacancies, Code 3912 — These positions are in the EO Missile Systems Branch, Code 3912 located in the Weapons Synthesis Division of the Weapons Department. The incumbent will develop weapon system simulations and conduct analysis and evaluation of proposed, developmental, and operational electro-optical guided missiles. Simulations are all digital as well as hardware-in-the-loop (HWIL), and include aerodynamic, propulsion, servo, autopilot, and seeker subsystem models. Please send an updated SF-171 to Sue Hucek, Code 391.

No. S-39-079, Interdisciplinary



personnel development opportunity

Deposit may be needed to get full benefits

The Omnibus Budget Reconciliation Act of 1982 allows you to receive full credit in the Civil Service Retirement System for all periods of military service performed after 1956. To receive this credit, you must make a deposit to the Civil Service Retirement Fund. The amount of this deposit is equal to 7% of the base pay you earned while you were in the military. The reason you don't automatically have your military time after 1956 credited to Civil Service Retirement is because all members of the military began paying into Social Security on January 1, 1957 and the law says you can't get credit under two Federal Retirement Systems for the same period of service. The 1982 law that allows you to make this deposit and thereby get full credit for your military time under both Social Security and Civil Service Retirement, contains two sets of rules depending on when you were hired into Civil Service.

If you were hired as a civilian before October 1, 1982 you have two options available to you:

1) You may elect to make the deposit to the Civil Service Retirement Fund and thereby have full credit under both Social Security and Civil Service Retirement. Note: only those employees who will eventually qualify for Social Security old age and survivor benefits need to consider making the deposit. If you make this deposit before October 1, 1986, you will not be charged any interest.

2) You may choose not to make the deposit in which case you would be covered under an earlier law passed by the Congress that's referred to as "Catch-62". Under the terms of this earlier law, your Civil Service annuity would be computed based on all Federal service (military and civilian). Then, at age 62, the Office of Personnel Management would get a determination from the Social Security Administration as to whether or not you were eligible for Social Security benefits. If eligible, your Civil Service annuity would be completely recomputed and your military time after 1956 would be subtracted from your total service thereby reducing the amount of your annuity. This reduction will occur regardless of whether you apply for Social Security benefits.

If you were first hired as a civilian after October 1, 1982: You must make this deposit in order to have your military time credited toward your Civil Service Retirement. You have three years after the date you were hired to make this deposit without being charged any interest. Remember — only consider making this deposit if you think you will eventually qualify for Social Security benefits.

EMPLOYEES: Please note the change in the date when interest will begin to be charged. A recent letter from the Office of Personnel Management informs us that the interest accrual method used for military deposits does not require payment of any interest until 1 October 1986. If you need additional information, contact Eileen Shibley at NWC ext. 2018 or 2592.

Northridge advisor here

Dr. Jagdish Prabhakar of Cal-State University Northridge will be on-Center Tuesday, September 10, to advise current and prospective students in the external degree programs offered by the school.

Cal-State University Northridge has ex-

ternal degree programs in electrical engineering and mechanical engineering at NWC which lead to a master's degree. Those who wish to see Dr. Prabhakar are asked to make an appointment by telephoning Kit Driscoll at NWC ext. 2648.

MECHANICAL ENGINEERING

ENGR 420A: ADVANCED MECHANICS OF MATERIALS (3 units)

4 September-18 December, Monday and Wednesday, 1600-1730, Safety Building. By: Bob Rockwell, ext. 5644.

Prerequisite: Statics and Strength of Materials or consent of instructor.

Scope: Multiaxial stress and strain, theories of failure, unsymmetrical bending, shear center, thick curved beams, beams on elastic foundation, pressurized containers, structural stability, energy methods, introduction to bending and buckling of plates.

Text: *Advanced Strength and Applied Stress Analysis*. Budynas. McGraw-Hill.

Note: This class is a prerequisite for ENGR 518, Theory of Elastic Stability, tentatively scheduled for next fall (1986), and is also a prerequisite for ENGR 520A, Advanced Materials Engineering (Fracture Mechanics), scheduled for spring 1986.

ENGR 509: NUMERICAL METHODS IN ENGINEERING SYSTEMS (3 units)

3 September-19 December, Tuesday and Thursday, 1600-1730, Training Center Annex. By: Charles Kenney, ext. 3597.

Prerequisite: Knowledge of FORTRAN programming. Basic course in numerical analysis strongly recommended.

Scope: Application of numerical techniques to selected problems in engineering. Coverage includes both classical and recently developed methods. Emphasis will be on phenomena described by ordinary and partial differential equations with applications to structural analysis, heat transfer, and fluid mechanics, and electromagnetic fields and waves.

Text: *Applied Numerical Analysis*. Gerald. Addison Wesley.

Note: This is a core class for the MS Degree, Mechanical Engineering, and Applied Mechanics option.

The following foundation class is being offered this fall at Cerro Coso:

ENGR 24: STATICS AND STRENGTH OF MATERIALS (4 units)

(Consult Cerro Coso fall bulletin for time and place)

Note: This class is a prerequisite to another foundation course, ENGR 309 Engineering Dynamics, that is scheduled for summer 1986.