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NWC promotes conservation
of energy this month—P-3

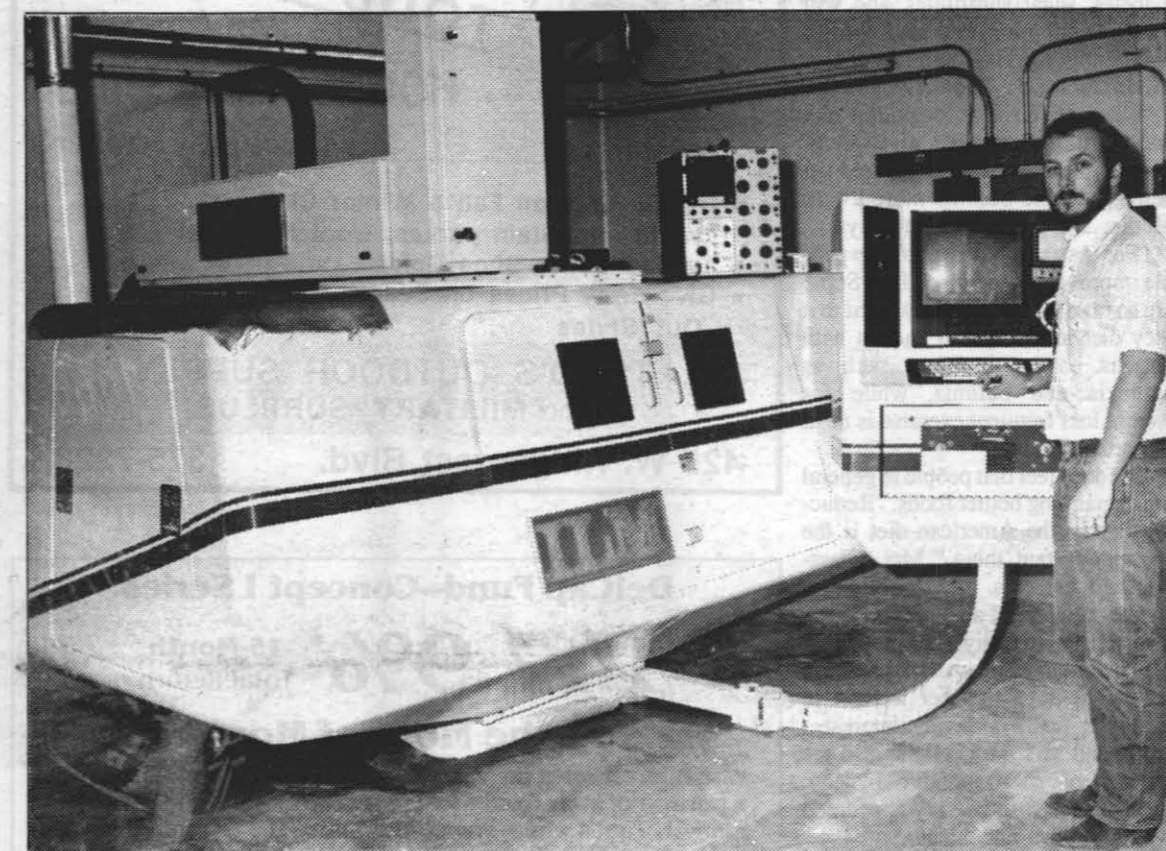
Yosemite National Park seen
on a colorful fall day—P-12

**NWC
Rocketeer**

Naval Weapons Center, China Lake, California 93555-6001

Vol. XLII, No. 41/October 16, 1987 1987

New equipment enhances welding capability



LASER WELDING—Bob Steele, head of the Engineering Department's Materials Process and Evaluation Branch, shows off their laser welding machine.

With the addition of laser and electron beam welding equipment, the Engineering Department's Materials Process and Evaluation Branch has state-of-the-art precision welding and cutting capability.

Bob Steele, branch head, noted the newest additions enhance the capability of Engineering Prototype Division personnel to assist in designing parts to take advantage of the unique technology offered by laser or electron beam welding. He said the equipment was worth an estimated \$700,000.

The laser welder, manufactured by International Laser Machines Inc. is a solid-state, 400-watt device. It is capable of welding, cutting, drilling, heat treating and engraving, said Steele. "It does the kind of precision work that can't be done by manual techniques," he added.

He has numerous examples of the close tolerance work this piece of equipment can do. It can cut precise circles out of very fine sheets of metal, it can perform contouring applications and drill a hole as small as .003 inch in diameter.

Laser welding is good for all normally weldable metal and some others as well. The computer-controlled machine is accurate to within a thou-

sandth of an inch in welding and cutting. Despite the estimated \$300,000 initial investment, Steele views the laser welder as a real cost saver for the Naval Weapons Center. Previously much of this precision work had to be contracted out, meaning more lead time and higher costs for designers.

For thicker materials and exotic metals that need to be welded in a vacuum, NWC has an electron beam welder. Using a highly concentrated beam of electrons, tightly focused on a metal held in a vacuum chamber, this is the newest piece of equipment operated by Code 3645.

This machine is also computer controlled and, like the laser welder, takes a highly trained operator to set up the program for any given job. It takes a knowledge of computer programming, metallurgy and numerical controlled machine tools to get a job ready in the electron beam welder.

One of its benefits is the capability to limit heat to a small area while doing the work. It is ideal for unusual welding tasks such as welding a piece of magnetic metal to a piece of non-magnetic metal.

This 11-person branch is responsible. (Continued on Page 16)

Roger Grenier accorded honor

Outstanding contributions to the Tomahawk Cruise Missile's Capsule Launch System (CLS) brought the Technical Director's Award to Roger Grenier recently.

Gerry Schiefer, Naval Weapons Center Technical Director, made the presentation and commended Grenier, Deputy Program Manager for CLS, for his excellent work. "One thing China Lake is really good at is coordination and integration of activities, and that's what Roger has done such a good job at," he added.

The award, consisting of a certificate, a stipend and a special pyramidal-shaped paperweight, was given, in part, because of Grenier's "extreme professionalism... his untiring dedication as a Naval Weapons Center representative and his willingness to serve/teach/promote the high ideals of NWC technical management," said D.G. Bullard in his nominating letter.

In the letter nominating him for the prestigious award, Grenier was also credited with being instrumental, as chairman of the CLS Multiyear Source Selection Technical Evaluation Panel, in recommendations that "resulted in contract award with minimum technical and schedule risk at a contract cost well below the government's projected cost. He was recognized and commended by RAdm. L.E. Blase for his outstanding performance in this effort who noted his strong leadership, exceptional management abilities and detailed technical knowledge."

Schiefer noted it was Grenier's spectacular efforts that made transition of CLS activities from NWC to the Naval Underwater Systems Center as the program moves to the production phase. He noted NWC will still be involved because of the Center's significant technical capability with the program.

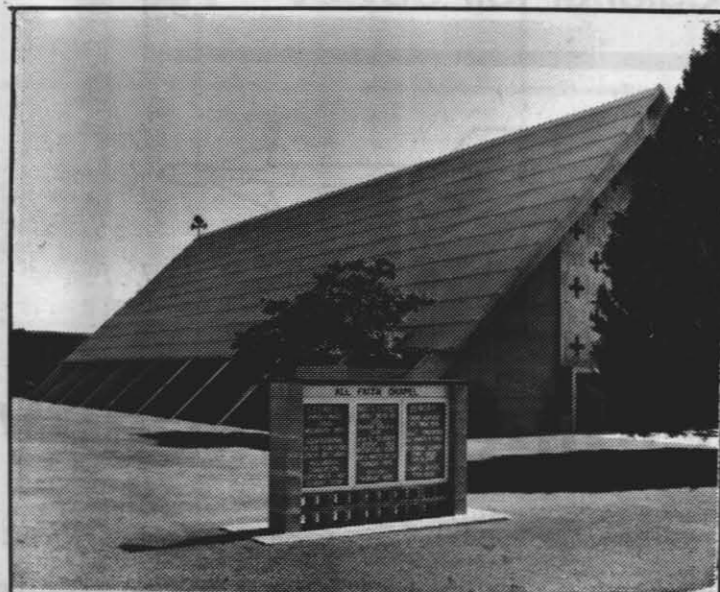
It was, commented Schiefer and Grenier, a team effort at NWC with Weapons Department and Ordnance Systems Department personnel being joined by support from Comarco to get the job done.

Bullard, head of the Weapons Department, in his letter of nomination said Grenier was, "responsible for development of a fully qualified SSN 688 Class Submarine CLS and qualified producers for the hardware. In addition he provides technical direction to Naval Underwater Systems Center, General Dynamics/Convair Division and McDonnell Douglas personnel either directly supporting the CLS or supporting interfaces between the submarine/CLS/missile."

Grenier was also credited with coordinating his team in "working closely with Westinghouse to clean up the remaining component design, pipeline bottleneck, and production (Continued on Page 16)



TD AWARD—Roger Grenier (right) is all smiles after receiving the NWC Technical Director's Award from Gerry Schiefer.



Divine Services

Protestant

Sunday Worship Service 10:30 a.m.
 Sunday School (September thru June) 9:00 a.m.
 Bible Study (East Wing)
 Wednesday 11:30 a.m. (September thru June)
 Thursday 6:15 a.m. Men's Prayer Breakfast
 7:00 p.m. Officer's Christian Fellowship
 Christian Military Fellowship

Islamic

Jumaa Prayer (Friday in Annex 4) 1:00 p.m.

Roman Catholic

Sunday Mass 9:00 a.m.
 Communion Service (Monday) 11:35 a.m.
 Daily Mass (Tuesday thru Friday) 11:35 a.m.
 Confession (Friday) 4:30-5:00 p.m.
 Confession (Sunday) 8:15-8:45 a.m.
 Religious Education Classes (Sunday) 10:30 a.m.
 (September thru May)

Jewish

Weekly Services (Friday - East Wing) 7:30 p.m.
 New classes will begin in September

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NWC's Wellness Corner

Jennifer Class-Mitchell, a Registered Dietician, will talk about "Dietary Guidelines for Americans" at the Center theater on Tuesday, Oct. 20, at 3:30 p.m. and on Thursday, Oct. 22, at 7:30 p.m. Under the sponsorship of the NWC Wellness Program, both sessions are open to everyone who is interested in learning more about nutrition and health.

Mrs. Class-Mitchell will talk about vitamin/mineral supplements, osteoporosis, secrets of losing weight and keeping it off, types of dietary fat that is good for the eater, nutrients that protect from cancer, dietary fiber and diabetes, sugar substitutes, and will recommend nutrition and health newsletters, books and magazine materials.

"I got my master's degree in diet and nutrition from the University of Kansas because I'm interested in helping people become more aware of diet and nutrition," she says.

"For instance, I'd like to help people improve their eating habits. Some are so obsessed with their weight that they diet intensely and end up with various eating disorders such as anorexia and bulimia, while for weight loss frequent exercise is most important."

She does feel that people in general are demanding better foods. "Reducing fats in the American diet is the most important thing," Mrs. Class-Mitchell believes.

The daughter of a physician, she is also married to a physician, Lt. Craig Mitchell at the Branch Medical Clinic, so she says that her interest in health is really a family interest.

Dr. and Mrs. Mitchell are also the parents of a 10-month-old baby, another reason to be very concerned with nutrition and health.

Good news: Coming soon at various areas around the Center will be a blood draw form those who wish to know their total cholesterol, HDL ratio, triglycerides, and glucose. A lifestyle inventory fitness evaluation assessing health practices, heart health, fitness, stress, nutrition, safety and wellness attitude.

A physical fitness assessment of body composition, cardiovascular fitness, musculoskeletal strength and

endurance, and flexibility will follow. There'll also be interpretation of the data for those who take the various tests.

Since 1966, the number of high school students nationwide intoxicated at least once a month has more than doubled, from 10 percent to more than 20 percent.



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1957 FIAT 600, currently registered, rear body in good shape, does not run, \$100. 446-6831.

1982 RENAULT FUEGO, like brand new, 30,000 miles, new tires, \$3,900 or call J. Newman, 446-4314 or 446-7777

1982 Z28 CAMARO, fully loaded, 32,000 miles, from \$4,000-\$5,000 best offer. 375-6793.

1984 FORD TEMPO, 4 cylinder, auto, transmission, \$500 take over payments. 375-7695.

1984 HONDA PRELUDE, red, all options, excellent condition, \$8,600. 375-3853.

1984 NISSAN 300 ZX, 2 plus 2, fully loaded, sun roof, new tires, excellent condition, \$11,000. 446-2024.

1985 PONTIAC Grand AM LE, 10,000 miles, Tan and gold color with all accessories. \$8,500. 446-5848

1986 NISSAN SENTRA, a/c, am/fm cassette, low mileage, asking \$6,500. 375-9648 after 12:00.

1987 BRONCO II XLT 4 x 4. Take over lease. 375-4364

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1971 BUICK LE SABRE, reliable transportation, runs excellent, new tires, \$350. 446-2472.

1972 DATSUN 510, air, stereo, new tires, sharp. \$1,300. 375-4502.

1979 GRANADA GHIA. A/C, air shocks, hitch, excellent tires, \$1200 plus extra 302 engine. 377-5950

489 Trucks and Vans

1949 Chevy 1/2 ton 1st series. Rebuilt 235", new battery, 12 volt system, excellent buy at \$1,800. Contact Wally 446-7040 days.

1964 CHEVY FLAT bed truck, 375-3119 or 375-3419.

1984 BRONCO II XLT, loaded, new tires, battery, shocks, 5 speed. \$8500. 377-4316

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1983 HONDA 83XL200R. 2800 miles, good condition. \$675. 375-6522

1984 HONDA ATC 70 cc, \$500. 446-5156 or 375-7727

1986 SUZUKI QUAD Sport, excellent condition, asking \$1,600. 446-3236.

1986 SUZUKI CAVALCADE LX 1400 cc, too many extras to list. 377-5028.

1987 SUZUKI Quad Sport, excellent condition, best offer. 446-5324.

SUZUKI GR 650 Templer, clear fairing, mag wheels, 9K miles. 375-2867

YAMAHA 1980 YZ80, looks & runs like new! Only \$475. Mike 375-9458, nice Christmas present.

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1985 VW Westphalia camper, loaded, 36,000 miles, like new \$12,950. 446-2219.

WEEK-N-DER CAMPER, 20' on 1 ton Chevy, 4 KW generator, fully self contained, \$6,600. 446-4109.



The Skipper Sez...

QUESTION

Civilian employee — I would like to alert you to a possibly severe traffic hazard. The problem is turning onto the Sandquist Road from the Range Control Center. There is a center acceleration lane with merging of traffic at the end of it. The problem is not only visitors, but sometimes the people here on the base and trucks from Public Works, think that you have to go all the way over to the right hand lane instead of using the center lane to accelerate. It winds up with them cutting in front of traffic coming out of the Airfield (I know there isn't suppose to be any at that time, but there is) and quite possibly causing an accident. The solution would be to post some kind of warning sign telling the drivers that there is an acceleration lane as you come into the intersection. Thank you.

ANSWER

Your question highlights an area of confusion which could result in an accident.

Vehicles making a left turn from Easy Road onto Sandquist Road have been provided with an acceleration lane to allow them to gain speed before they merge with traffic leaving the Airfield. Two possible hazards occur: (1) Vehicles turning left from Easy Road onto Sandquist Road are moving from the acceleration lane into the right-hand lane before they accelerate to a speed matching that of traffic leaving the Airfield. (2) Traffic from the Airfield on Sandquist Road moves into the acceleration lane rather than remaining in the right-hand lane until the lane ends and merging with the traffic in the left lane at that point.

According to the Manual for Traffic Control Devices, the acceleration lane and the through-traffic lane on Sandquist Road are separated by a solid white line. A sign will be added to warn of the potential hazard of merging traffic.

Thank you for your concern. We all share the road and should drive in a responsible, safe and legal manner at all times.

QUESTION

Civilian employee — I was out at the golf course and I noticed that at the rear of the course, there is a drainage ditch and that they moved some dirt at the end of it. It seems to be semi-full of water with green algae growing in it and thousands and thousands of mosquitoes. Knowing that those ponds are sewage ponds and that those mosquitoes are right there, I was just wondering about the health risks right there. Thank you.

ANSWER

The water in the drainage ditch is run-off from lawn watering in housing, not from the sewage ponds. The vegetation in the ditch was recently removed, which will eliminate most of the mosquito breeding areas. The health risk from mosquitoes breeding in the sewage ponds is no greater than from mosquitoes breeding in any other water. For a mosquito to transmit a disease, it must first bite an infected person or animal. The organism, usually a virus, must multiply or go through a change within the mosquito. The mosquito can then transmit the organism by biting a susceptible person.

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. John Burt. 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.

CHP warns drivers

Both the Kern County District Attorney's Office and the California Highway Patrol advise the public to be wary of advice received from automobile dealers or window tint installers regarding the tinting of automobile windows. The CHP is encountering an increasing number of window tint violations and many of the citizens cited indicate they have been misinformed about the law by the window tinting installer or automobile dealership.

Under California law, it is unlawful to have window tinting on the windshield or front windows of any vehicle (this does not include factory-installed and approved glazing). If the driver or passenger must be shaded from the sun due to a medical condition, the law makes provisions for removable devices, but only with a physician's approval.

Motorist safety is the primary goal of the law. Capt. Keith Miller of the Office of Highway Patrol notes that "You wouldn't wear your sunglasses at night; with illegal tinting, it can be just as dangerous." The illegal window tinting can make it particularly difficult for drivers to see poorly lit objects, pedestrians, bicyclists, and even other automobiles through tinted windows at night.

Any motorist with questions about window tinting can call the CHP at (805) 327-1069. Specific Consumer Complaints can be directed to the Consumer and Environmental Protection Unit of the Kern County District Attorney's Office at (805) 861-2421.

Energy Week starts Mon.

Energy Awareness Week for the Navy begins next Monday, with buttons and flyers about the need to conserve energy being passed out around the Naval Weapons Center by members of the Energy Program Management Branch.



AWARENESS STRESSED — Tami Maxwell from the Center's Energy Program Management Office presents Jim Bowen, Deputy Support Director, a button and poster about energy conservation.

Although the Center met — and exceeded — the energy conservation goals had been mandated by the Navy to be attained in a 10-year period, the need to conserve energy still exists, according to Jim Bowen, Deputy Support Director, who was presented with both a button and flyer recently at his office.

He noted he'd like to challenge every branch on the Center to put some thought into a way of saving energy, take action on it during the upcoming week, and then let the Energy Program Management Office know what they did.

"With an organization as large as NWC," Bowen pointed out, "even very small savings mount up quickly."

Ways to save energy might include such as:

- Turning off all lights when members of an office go out to lunch.
- Keeping electrical equipment turned off until it is actually needed.
- Wearing a sweater in cold weather rather than turning the heat up.
- Walk if you need to go to another building if it's within three or four blocks rather than driving.

Meyer gets Code 32 award

Gary Meyer of the Ordnance Systems Department's Applied Science Branch received the department's first Accident Prevention Award for his ongoing efforts to promote safety.

Matt Anderson, department head, presented Meyer with a Special Act Award in recognition of his accident prevention initiative.

The letter of nomination from James C. Baldwin, head of the Applied Science Branch, cited Meyer's efforts which "greatly increased

the safety awareness of his co-workers." Meyer did this by placing "appropriate, pointed, but humorous safety signs strategically throughout the varied worksites."

Baldwin noted this kind of safety awareness and reminders of the obvious safety hazards can make a real difference between safe working habits and serious injury. He pointed out that Meyer has shifted the signs around in the various laboratories and test sites to ensure the message did

not become stale or part of the background in any particular area.

While safety and accident prevention effort results are often intangible, because nothing bad happens, Baldwin says there have been improvements in morale that "confidence in a safe, healthful environment bring." Baldwin adds "We've appreciated Gary's quiet safety initiatives through the years, and we're very pleased to have Gary receive this first Accident Prevention Award."

TV booster seeks mail

Ed Middlemiss, president of the Indian Wells Valley TV Booster, Inc., recently learned that important mailings from the Federal Communications Commission have recently been addressed to NWC mail codes that no longer exist or are no longer appropriate.

Anyone receiving such mail is asked to forward it promptly to him at Code 3337 (NWC ext. 1021).

The Booster is a not-for-profit association dedicated to sustaining through-the-air TV and FM-radio reception in the local area. Its volunteers maintain relay stations on NWC property on Laurel and "B" Mountains. The organization is sustained and equipment purchased through donations and memberships.



SPECIAL ACT—Matt Anderson (left) head, Ordnance Systems Department, presents a Special Act Award to Gary Meyer of Advanced Technology Division's Applied Science Branch. Photo by PHAN Cary Brady



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China Lake Police Reports



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Reservations (619) 377-4313

FROM INYOKERN: TO LOS ANGELES:

FE 933	6:50 AM
FE 935	9:30 AM
FE 937	1:30 PM
FE 515	3:00 PM
FE 939	5:00 PM
FE 941	8:00 PM

Items were stolen from a car parked at the Lemon Lot, according to the vehicle's owner.

+++
The owner of a car reported to police that items were stolen from the car while it was parked in the parking lot of the Enlisted Mess.

+++
An acetylene tank in the back of a truck caught fire. The driver was burned while trying to put out the fire; he was transported to Ridgecrest Community Hospital by NWC ambulance.

+++
A bike was stolen from the bike rack at the NWC gym.

+++
Police officers advised some individuals hot rodding on the dry lake bed that no one is supposed to be out on the lake bed after dark.

A government vehicle hit the guard rail protecting the fire hydrant at Intruder and Skyhawk at the airfield. The guard rail was undamaged; the truck was not.

+++
An unidentified person stole the stereo from a vehicle parked at the impound lot by the Credit Union.

+++
Police were called to help settle a non-violent verbal dispute between a husband and wife.

+++
At 2:30 a.m. police were called with a report that someone who was drunk was walking near Switzer Circle. On investigating, they discovered that the military man was not drunk, but had been in a fight in town (and he did not want to press any charges). They took him to the medical clinic for treatment.

Dogs also got police attention. One youngster was bitten on the hand by a dog at Vieweg Circle; her mother transported her to the medical clinic for treatment and the dog was quarantined. In the other instance, a man on Kearsarge reported his daughter had been chased by dogs. The owner of the latter dogs was warned by police that his animals needed to be restrained.

+++
Police discovered a key hanging in a lock. They secured the lock, issued a security violation, and the key can be reclaimed at the police station.

+++
A car backed into another in the parking lot of the BEQ.

+++
The Knox Road gate was found open at 1:57 a.m. Someone had apparently cut the chain off in order to exit the inner range area rather than going out the Lauritsen gate. Officers resecured the gate.

+++
When a child was found lying on the dirt road between the golf course and houses, the NWC ambulance was summoned to take the youngster to the hospital. There it was determined that he was uninjured; he just said he had gotten sleepy and lay down to snooze.

+++
Four juveniles were found riding their bikes around the housing area after 10 p.m. They were escorted to their residences and their parents were advised about curfew regulations.

+++
Police escorted two Murray Junior High School students back to campus when they were found in the housing area during school time. They were turned over to the principal.

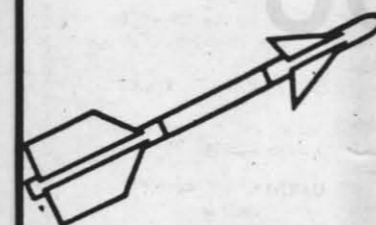
+++
Two sets of keys were found and given to the police. One was left at the Hobby Shop and one was found in Michelson Laboratory. Both can be reclaimed at the police station.

October 16, 1987

October 16, 1987

Rocketeer 21

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BURGER KING is hiring part time cashier, days, flexible hours, apply in person, 139 China Lake Blvd. Closure position also available.

NANNY TYPE babysitter wanted. My home from 10:00 a.m. - 3:30 p.m. M.F. 375-6104 before 9:30 a.m., after 4 p.m.

337 Work Wanted

BABYSITTING in my home on base. Reasonable rates, 446-6226.

BABYSITTING in my home, Las Flores district. 375-3514.

EXPERIENCED Housekeeper will clean your home. 375-6577.

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SEWING AND MENDING. Call Brenda, 375-5058.

349 Livestock

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353 Miscellaneous For Sale

FURNITURE FOR SALE: Queen hide-a-bed, chrome with rust upholstery, 2 matching chairs, stack side tables, THOMAS organ with bench. 375-7514 after work and weekends.

GOOD USED FENDERS, hoods & doors, \$35 & up. Pearson's Auto Parts and Wrecking, Hwy 395, Pearsonville. 377-4585.

353 Miscellaneous For Sale

ALUMINUM MAG WHEELS for sale. Call 446-4768

BASS FOR SALE!

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CAMPER SHELL for older Rancho, good condition, must see, \$100. 375-5185.

CAMPING MEMBERSHIP. Thousand Trails Life Time, all areas at less than half price. \$3,500 or best offer. 375-2867.

COMPAQ portable computer. 2 floppies, 64 K, S/PCC. \$1075. 375-6522

COMPUTER, IBM compatible, 640K ram, two 360K drives, color, graphics, \$750; color monitor and TV \$300 (with computer). 446-3292.

FOR SALE: Monterey Geodesic Dome Kit. Alpine 40, 2 x 6 construction, 4 foot base wall, six foot extensions, 1 four foot extension. Complete roofing system. Still in storage. 446-2067.

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Check-out begins at 5:00 pm Sunday.

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Chili cookoff plans

Tomorrow is the deadline for turning in applications to enter the chili cook-off that is traditionally one of the highlights of Maturango Junction, which will be celebrated on Saturday, Oct. 24.

Applications for individuals or groups who wish to join in the competition are available at the Maturango Museum; the entry fee is \$10 for either.

Chili for this competition is defined as any kind of meat or combination of meats cooked with spices, chili powder or peppers and other ingredients. No thickening agents such as beans, spaghetti or other pasta

may be used.

Contestants must supply their own utensils, ingredients and stoves. The cookoff begins at 9 a.m. and concludes at noon when the judges begin their deliberations.

What most of those attending Maturango Junction look forward to will occur during the lunch hour. That's when chili will be sold as part of the museum's fund-raising activities.

Further information can be obtained by telephoning Beverly Atkins, 446-6700, or the museum office at 375-6900.

Community Events

Tonight at 7:30 the curtain will rise at the Burroughs High School lecture center for the Community Light Opera and Theatre Association's production of *Seven Brides for Seven Brothers*, a colorful musical romance that will be enjoyed by the whole family.

The performance will repeat at 7:30 tomorrow night and on Friday and Saturday, Oct. 23 and 24 as well.

Tickets for the show can be purchased in advance at The Music Man, The Art Buffet, Farris' Restaurant, The Book-Let, Medical Arts Pharmacy, D'Allen's Menswear, and Loewens' in Ridgecrest as well as at the box office prior to each performance. General admission is \$6.50, reduced to \$4.50 for seniors, students and active-duty enlisted military personnel.

Green thumb individuals in the local area are due for a special treat tomorrow when the Oasis Garden Club will hold its annual fall plant and rummage sale from 8:30 a.m. to 4 p.m. The sale will be held at the Garden Center at the corner of Blandy Avenue and Lauritsen Road.

For collectors, there'll also be a choice assortment of "pre-owned" items, but the biggest selection will be in plants, from tiny ones to five-gallon containers of trees and shrubs. Prices are modest.

Proceeds will be used for a variety of educational and charitable purposes.

In celebration of Juliette "Daisy" Low's birthday, the Girl Scouts Roadrunner Neighborhood Family Partnership is sponsoring an ice cream social on November 7 at McBride Park.

Join the fun and support the local Girl Scout Roadrunner Neighborhood. Any money raised will be used for up coming events.

Miss Low founded Girl Scouts of America in 1913. Girl Scouts of America is a United Way Activity. For additional information contact Ann Roseman after 5 p.m. at 375-1030.

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Starring
James Caan and Angelica Huston
(Drama, rated R, 112 min.)
FRI. OCT. 23
"THE UNTOUCHABLES"
Starring
Robert DeNiro and Sean Connery
(Drama, rated R, 120 min.)
Admission price varies

Starting Times: Matinee / 2 pm Evening / 7 pm

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

Soccerthon set Sunday

Exhibitions of soccer skills will highlight the annual Scorpion Soccer Club Soccerthon on Sunday.

This is a six-hour fundraiser for Scorpion youth soccer. Players on the Scorpion teams will be seeking pledges based on minutes played.

The annual Soccerthon will be held at Murray Junior High School's southwest soccer field starting at noon this Sunday, Oct. 18.

Weather Report

	Max	Min	Peak Gusts
Thurs.	90	51	12 knots
Fri.	90	50	14 knots
Sat.	88	51	16 knots
Sun.	88	48	22 knots
Mon.	—	59	— knots
Tues.	82	49	22 knots
Wed.	85	47	13 knots

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NAVAL WEAPONS CENTER
MODEL INSTALLATIONS PROGRAM INITIATIVE

Initiatives enhance NWC performances

Since some funding documents for off-Center funded projects have been late due to unavoidable administrative delays, projects have had to be put into a "hold" mode and personnel have been assigned to other projects. Under the Model Installation Program (MIPI 011-86), Center managers requested that authorization by the Center Commander be increased to \$1,000,000 and 60 days of time so that work can continue on such projects.

A waiver was granted instead to allow expanded use of a "letter of intent," such a letter is a written notification from a responsible customer official that funds are legally available to the customer and that a formal funding document will follow within 60 days.

Funding for costs incurred as a result of such letters of intent continue to be the responsibility of the ordering authority.

MIPI 039-86 requested a waiver of NAVCOMPT Manual 054601.7 and 054600.28 to allow a transfer of funds from one General and Administrative (G&A)

cost center to another. This has been granted.

What this means, for instance, is that such expenses as telephone service and rental lease costs that are administered by other departments can, where identifiable, be distributed to the benefiting cost centers.

Normal operating costs of G&A cost centers will, however, be retained within the appropriate cost center.

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Navy advancement testing stresses should know data

(This is the fourth article in a series of articles on the Navy advancement procedures. The last article dealt with some of the particulars in the exam. This article will deal with the exam, Navy standard scores, and the final multiple score (FMS).)

Navywide exams do not test personnel on *must know* information; they test personnel on *should know* information. *Nice to know* information is just that and is not tested

because most of it is has limited application.

The difference between the three types of information is

— *Must know* is information that military personnel must have to function and advance in their positions.

— *Should know* is information that places personnel a notch above those who have not diligently applied themselves in their positions.

— *Nice to know* is additional

information that helps personnel in their positions but has limited application.

The exams determine who are the best qualified on the basis of *should know* information and rank them from best qualified to least qualified. The enlisted advancement system is vacancy driven and only the highest qualified personnel are advanced.

Navy standard scores inform candidates of how well they did in comparison with their peers. The exams are designed to be tough, with the lowest possible Navy standard score of 20 and the highest of 80.

For advancement to E-4 through E-6, the FMS consists of points awarded for the exam score, performance marks average, total active service, time in rate awards, and passed-not advanced points. For E-7 candidates, FMS consists only of points from the exam score and performance average.

The FMS ultimately determines advancement to E-4 through E-6 rates. Candidates competing for each rate are rank-ordered according to their FMS. Advancements are made starting at the top and counting down until the quota is filled.

For advancement to E-7, the FMS determines who will be "selection board eligible." Qualified E-8 and E-9 candidates that are recommended by their COs and with a validation answer sheet forwarded by their command to NETPMSA will be considered "selection board eligible."

The selection board convenes annually and reviews the designated candidates' service records. Requirements that are sought by the selection board vary from year to year, but the board always looks for sustained superior performance, leadership capability and experience, off-duty education, time at sea, and support of the Navy's equal opportunity goals.



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FERS - questions and answers

Q. I am now covered by full CSRS, but I plan to transfer to FERS during the open season and retire in March 1988. Will I be eligible for Special Retirement Supplement?

A. No. In order to be eligible for the Special Retirement Supplement, you must have at least one full year of service subject to FERS computation rules.

Q. I am now covered by CSRS Offset because I returned to Federal service in 1984 after a break in service of more than a year. I plan to transfer to FERS during the open season and retire a few months later. Will I be eligible for a Special Retirement Supplement?

A. Yes, if you meet the minimum age and service requirements for an immediate unreduced annuity. This is because your service that is subject to FERS computation rules begins when you returned to Federal service in 1984 under the "interim" retirement plan, making 1985 your first full calendar year subject to FERS computation rules.

Q. I am transferring to FERS with 20 years of service. I plan to retire in 1989 when I reach age 60. Will I get the Special Retirement Supplement?

A. Yes. You will have met the age and service requirements for an immediate unreduced annuity — in this case, age 60 with 20 years of service. You also will have one full calendar year under FERS, 1988. Remember, however, that the Special Retirement Supplement is subject to an earnings offset, and if you earn too much after you retire, your Supplement may be reduced to zero.

Q. I am a 46-year-old law enforcement officer with 23 years of law enforcement service. If I transfer to FERS now and retire in two years, when I have 25 years of service, will I

be eligible for the Special Retirement Supplement as soon as I retire?

A. Yes. You will have met the age and service requirements for immediate unreduced retirement as a law enforcement officer. You will also have one calendar year of service under FERS. Since you qualify for benefits under the special provisions for law enforcement officers, it is not necessary for you to meet the minimum retirement age applicable to other types of immediate retirement in order to be eligible for the Supplement. In addition, the Supplement will not be reduced by any outside earnings until you reach the minimum retirement age.

Q. I am 53 years old with 12 years of service. I want to transfer to FERS so I can retire when I reach age 55. I understand that my annuity will be reduced because of my age. Will I be eligible for the Special Retirement Supplement?

A. No. To be eligible for a Special Retirement Supplement, you must retire under a provision of the FERS law that does not require reduction for age.

Q. I am 53 years old with 18 years of service. I understand that I can retire under FERS at age 55, when I will have 20 years of service. I also understand that if I postpone the start-up of my annuity until I reach age 60, there will be no reduction in an annuity. Will I also be eligible for a Special Retirement Supplement if I postpone starting up my annuity?

A. No. You would not be eligible for the Special Retirement Supplement in either case. Postponing the start of your annuity will not change the provision of law under which you retired. You must meet the minimum age requirement for an unreduced annuity at the time you retire to qualify for the Supplement.

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Dr. Roe to advise students on CSUN's external degree applied mechanics program

Dr. Arnold Roe of Cal-State University Northridge (CSUN) will be on-Center November 6 to advise current and prospective students in the external degree program offered by the school in applied mechanics.

CSUN has external degree programs in electrical engineering, applied mechanics and mechanical

engineering at NWC which lead to a master's degree. CSUN also has an external degree program in electrical engineering which leads to a bachelor's degree.

Those who wish to see Dr. Roe are asked to make an appointment by telephoning Cyndi Jones at NWC ext. 2648.

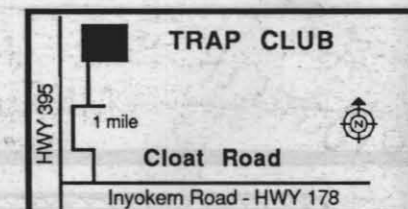
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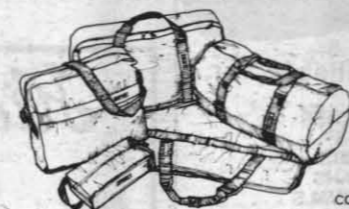
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Secretarial opportunities . . .

(Continued from Page 17)
GS-318-4/5, Code 3384 - This position provides support to the Weapons Survivability Laboratory. Knowledge and working experience of the IBM Displaywriter desirable. Promotion potential to GS-5.
No. 33-033, Secretary (Typing), GS-318-5/6, Code 3301 - Incumbent provides clerical and administrative support to the Associate Department Head and Head of Staff. Promotion potential to GS-6.

Chico advisor to be on-Center Nov. 9

Dr. Orlando Madrigal of Cal-State University Chico will be on-Center November 9 to advise current and prospective students in the external degree programs offered by the school.
Cal-State University Chico has external degree programs in computer science that lead to bachelor's and master's degrees.
Those who wish to see Dr. Madrigal are asked to make an appointment by telephoning Cyndi Jones at NWC ext. 2648.



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Salary information for employees in the DP pay scale

Authorization for the new special salary rate increase for this year has been received.
Increases will affect employees in the DP-2 range. The bottom of the DP-2 pay band will remain the same since it is based on the GS-9, Step 1, rate of the normal General Schedule. The top of the DP-2 pay band has been increased to the top rate of the GS-11 special salary rate schedule for Electronics Engineers. This means a slight increase in salary for all Demonstration Project employees (not just Electronic Engineers) at the DP-2 level.
The rates of employees in the DP-1 and DP-3 salary range will remain unchanged at this time. However, the rates for DP-1 and DP-3 employees, as well as all other Demonstration Project employees, will be increased in January, if there is an increase to the General Schedule.
The increase will range from 0% at DP-2, increment 1, to approximately 3% at the top increment of DP-2.
These actions are considered pay adjustments as opposed to merit increases because they are caused by technical adjustments to the DP-2 pay scale.
At that time, DP-2s will receive increases ranging from the full amount of the General Schedule increase at increment 1 to 0% at the top of DP-2.
Adjustments to the DP-2 salaries were effected on Oct. 11 and will be noticed in the checks issued for the payday of Oct. 30.
The new salary schedule for DP-2s is provided below:

INCREMENT	
1 - \$22,458	11 - \$28,558 21 - \$34,658
2 - \$23,068	12 - \$29,168 22 - \$35,268
3 - \$23,678	13 - \$29,778 23 - \$35,878
4 - \$24,288	14 - \$30,388 24 - \$36,488
5 - \$24,898	15 - \$30,998 25 - \$37,098
6 - \$25,508	16 - \$31,608 26 - \$37,708
7 - \$26,118	17 - \$32,218 27 - \$38,318
8 - \$26,728	18 - \$32,828 28 - \$38,928
9 - \$27,338	19 - \$33,438 29 - \$39,538
10 - \$27,948	20 - \$34,048 30 - \$40,148

Formal remarks asked re: clericals in Demo Project

There will be an information meeting with an opportunity to make formal comments on the entry of the clerical/assistant career path into the Demonstration Project. The meeting will be in the Michelson Lab Auditorium, Room 1000D, at 1 p.m. on Friday, Oct. 30. The meeting will be conducted by Eva Bien, NWC Civilian Personnel Officer. Also on the hearing panel will be Dr. Ed Royce, Chairman, Demonstration Project Executive Steering Committee; Roger Peck, Head, Personnel Service Division No. 1; and Bob Glen, Demonstration Project Manager.
The purpose of the meeting is to provide individuals or employee organizations with an opportunity to present written or oral views to the Office of Personnel Management concerning the entry of the clerical/assistant workforce into the Demonstration Project. Any of the Center's clerical or assistant personnel who would like to make a statement for the record are invited to attend this meeting.
The hearing is not intended to be a question-and-answer session that provides general background on the project. However, questions concerning specific aspects of the planned entry process or how the clerical/assistant workforce will be part of the Demonstration Project may be asked of the panel.
Individuals who desire to make statements are requested to contact Debbie Ashley, NWC ext. 2478, so that presentation times can be scheduled. Each individual should provide the following information: name, address, organization or group represented (if any), estimated time of presentation, and whether or not a written text will be submitted.
Comments from presenters will be limited to 10 minutes each to permit everyone an opportunity to be heard. The meeting will be recorded so that a typewritten transcript of the meeting can be provided to OPM. The submitted testimony is reviewed by OPM prior to final approval for entry of this career path into the Demonstration Project.

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Hall Memorial Lanes is a qualifying center for this special event. Interested parties can qualify as many times as they want, Monday thru Sunday, from 9 a.m. to 11 p.m. until January 1, 1988.
Entry forms and rules are available at Hall Memorial Lanes. Entry fees are \$9 per team plus lineage. Line fees are \$1.30 per game for DOD civilians and their dependents and \$.75 per game for military, retired military, and dependents.

Course now mandatory before test

Sailors who plan to take the January E-7 advancement test should know that the AMR 1 & C Course is required for candidates in the following ratings AD/AE/AME/AMH/AMS/AO/AQ/AT/AX and PR. All needed course material is available from the China Lake PSD/ESO at NWC ext. 3314/15.

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PSD notes test date

China Lake sailors are reminded the next Military/Leadership Test (for E-4, E-5, E-6 and E-7) will be given at 7:30 a.m. Wednesday, Oct. 27, at the NWC Enlisted Mess' ballroom.
All participants must submit a chit to reach PSD/ESO no later than 4:30 p.m. of Oct. 26. Any chits not in the hands of PSD/ESO at that time will be held for the next month's test.
Personnel taking the test must be at the Enlisted Mess no later than 7:15 a.m. in the uniform of the day, and with their military I.D. card.
For more information call Bob Morin at NWC ext 3314/15. This test is required for all E-7 candidates.



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GRADUATION CEREMONY — Gathered for a graduation picture at the conclusion of the latest class held for Navy Relief Society volunteers. From left to right those pictured in the front row are Jalene Marten, Sue Plante, Cynthias Fedyschyn (holding Melissa), and Amanda Woodside. In the second row are Laura

White, Sally Henry, Rae Jean Reagan, Jennifer Taylor, Marnie Vanderpoel, and Lt. Brian Lewis. The third row has Capt. John Burt, NWC Commander; Shannon Harris; David Brown; Mary Stiles; Molly McGee; Joyce Dinnage, Executive Director of the NRS from Long Beach; Joyce Guttenberger; and Bobbie McDonald.

NEX sales

Don't forget the Navy Birthday Sale ends Sunday at the Navy Exchange. Be sure to stop in and check out the terrific bargains!

The Home Improvement of the Month feature for October is the Black and Decker Workmate 85. Christmas is coming up and this item would be a terrific gift to put under the tree!

"Wines of the Week" will now be featured at the Package Store. The special for next week (beginning Oct. 19) is Robert Mondavi's (1.5 liters) California Sauvignon Blanc and Cabernet "Red."

Individuals wanting good buys on home improvement items should mark their calendar for Oct. 22-25. The Navy Exchange's Home Improvement Sale will be in effect geared to let people beautify their homes at low, low prices!

FRA meets

China Lake Branch 95, Fleet Reserve Association, once again took top honors in the Southwest Regional Public Relations Competition. This puts the China Lake Branch in the competition for national honors with seven other FRA region winners.

Wally Baker accepted the award at the FRA National Convention earlier this year. He noted Branch 95 could not have won this honor for the third consecutive year without the help of the area's news media.



Promotional opportunities

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

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

No. 08-062, Supervisory Accounting Technician, GS-525-6/7, Code 08621 - This position is located in the Cost Accounting Branch of the Division of Central Staff. Incumbent serves as a supervisor in the control and maintenance of cost accounting records and subsidiary ledger for the Commercial Orders Section. Duties include supervising two lead accounting technicians and thirteen accounting technicians; providing on-the-job training and reviewing the work of employees; preparing performance plans and monitoring the work performance of employees; maintaining a current knowledge of and answering questions concerning procedures, policies and directives used in the section; reconciling subsidiary ledger accounts to general ledger accounts; preparing and reviewing time and attendance records; reviewing and updating desk procedures; validating costs and accounting records; and researching aged financial transactions to clear accounts. Incumbent must have extensive knowledge of the Integrated Disbursing and Accounting System; of the Document Entry System; of NAVCOMPT regulations; and of NWC personnel policies and procedures. **Job Relevant Criteria:** Ability to communicate effectively in writing; ability to meet financial deadlines; ability to interpret and apply a body of regulations and procedures under varying conditions; ability to reconcile ledger accounts; ability to provide training; willingness to support NWC EEO program; new supervisors will be required to serve a one year probationary period. Promotion potential to GS-8.

No. 09-010, Clerk-Typist/Employee Relations Clerk, GS-322/203-3/4/5, Code 091 - This position provides clerical support to the Employee Relations Division. The position may be involved with the Center's Incentive Awards, Retirement System, Health/Life Insurance, Adverse/Disciplinary actions, Labor Relations, and other Employee/Labor relations programs. The incumbent will be responsible for typing, filing, compiling case files, summarizing data, drafting reports, and checking documents for completeness and accuracy within their assigned program area. These jobs require a high degree of tact and diplomacy in dealing with all levels of Center employees as well as with persons from outside of the Center. **Job Relevant Criteria:** Ability to comprehend and apply regulatory material; ability to gather data; ability to prepare written reports; ability to type accurately and efficiently; knowledge of word processing programs. Status eligibles may apply. Promotion potential to GS-6.

No. 33-031, Administrative Assistant/ Officer, DA-341-1/2/3, Code 33502 - This position is the Administrative Officer for the Electromechanical Division, Fuze and Sensors Department located at Salt Wells. The incumbent provides administrative services for the Head, Electromechanical Division and six branches within the division. Duties include the areas of budget, resource, and organizational analyses, personnel management, and assisting with

policy research and decisions. **Job Relevant Criteria:** Knowledge of personnel management; knowledge of NWC financial systems, terminology and procedures; ability to collect and analyze data; ability to communicate in writing. Promotion potential to DA-3.

No. 34-010, Visual Information Specialist, DA-1084-1/2, Code 3463 - This position is located in Field Service Branch 3, Field Service Division, Technical Information Department. The incumbent prepares or assists senior specialist in preparing visual graphics for presentations and technical publications. The incumbent must be able to work in both black and white and color media in support of Center programs and projects. The incumbent will also operate various cameras, heading equipment, Diao printers, computers for graphics preparation such as Genigraphics 100D, SG-1, SG-2, and all other pertinent tools of the trade. **Job Relevant Criteria:** Knowledge of communication of visual information; ability to communicate orally; ability to work with others; ability to meet deadlines. Promotion potential to DA-3.

No. 35-033, Supervisory Interdisciplinary (Electronics Engineer/Physicist/General Engineer/Program Manager), DP-855/1310/801/340-3/4, Code 352 - This position is the Head of the Weapons Systems Development Division. The division is responsible for the exploratory, advanced and engineering development of advanced guidance systems and avionics generally concerned with RF technology. The systems include passive, semi-active and active RF systems. Component research and development support the dydtem efforts. Incumbent provides overall direction, coordination and management of division activities. **Job Relevant Criteria:** Knowledge of RF technology; Ability to design and develop RF systems and components; Ability to manage complex programs and supporting efforts; Ability to support NWC EEO policies and goals. Promotion potential, DP-4.

No. 35-034, Interdisciplinary (General Engineer, Electronics Engineer, Mechanical Engineer, Aerospace Engineer, Mathematician, Physicist, Computer Scientist), DP-801/855/830/861/1520/1310/1550-4, Code 3501 - The incumbent will serve as the Associate Department Head for the Electronic Warfare Department, Code 35. Will function as the Department's DRC coordinator, Technical base manager for Electronic Warfare and will participate in establishing and integrating resource allocation priorities for the Department. Will assume much of the daily management of the Department of the Department and assess the relevance of tasks assigned from outside sources. Responsible for support of EEO Programs. **Job Relevant Criteria:** Knowledge of DOD structure with particular emphasis on SPAWAR and supporting systems commands; knowledge of the Center

mission, product areas and product lines; Knowledge of major programs and projects in the electronic warfare and defense suppression areas; ability to plan, organize and direct the operation of a large complex R & D organization; ability to deal effectively with all levels of management, both on and off center; ability to communicate clearly and concisely orally; ability to communicate clearly and concisely in writing; must have knowledge of Affirmative Action principle including the willingness to implement EEO practices. Promotion potential DP-4.

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. 35-037, Supervisory Interdisciplinary (Electronics Engineer/Computer Scientist/Mathematician/Physicist), DP-855/1550/1520/1310-3/4, Code 3562 - Incumbent will serve as the Branch Head for the EW Simulation Software Branch in the Electronic Warfare Department. The incumbent is responsible for directing and managing all technical and administrative efforts of the branch, including management of the facilities and contractor efforts associated with software development. The branch is responsible for development of SEWS software and other embedded and test software. **Job Relevant Criteria:** Knowledge in development from requirements definition through implementation and system testing; in structured software development in accordance with DOD standards using Yourdon or Ward and Miller techniques; in EW simulations (radar or EW equipment); and personnel management. Ability to communicate orally; to communicate in writing; to interact, coordinate, and negotiate with Center, Navy, DOD, and contractor personnel. Must be willing to support NWC EEO policies; and will be required to effectively motivate and manage personnel. A one year supervisory probationary period may be required. The position has promotion potential to the DP-4, however it is not guaranteed.

No. 35-038, Interdisciplinary (Electronics Engineer / Physicist/General Engineer/Mechanical Engineer/Aerospace Engineer), DP-855/1310/801/830/861-3, Code 3532 - The incumbent will serve as the Integrated Defensive Avionics Program (IDAP) Technical Manager. This is a program to develop an integrated electronic warfare suite for Navy tactical aircraft. The IDAP integrates current jammers, radar warning receivers, new missile detection sensors and expendables with other aircraft avionics equipment. The program is entering full scale engineering development, and lab and flight testing of the risk reduction hardware/software is beginning. The incumbent will provide technical leadership in guiding IDAP through TECHEVAL/OPEVAL. The Technical Manager will develop plans and technical concepts to incorporate advanced and updated current equipments into an IDAP product improvement program. In addition, the incumbent will manage the IDAP hardware/software team, generate plans, schedules and budgets. The incumbent must be able to direct a multi-disciplined hardware/software team of developers, including laboratory and contractor, must be familiar with elements of electronic warfare,

aircraft survivability, tactical strike operations, tactical aircraft and/or avionics; must be able to think at the system level and demonstrate flexibility in handling technical and programmatic issues; must be able to interface with sponsors, government laboratories, and contractors; must be able to plan, schedule, budget and coordinate tasks as part of a major project; must be able to communicate orally; and must be able to communicate in writing. The incumbent must have a current Top Secret/SBI or the ability to be granted this clearance. To apply, please submit current SF-171 to Penny Bott, Code 3532, NWC ext. 1576.

No. 36-083, Interdisciplinary Electronic/General/Industrial Engineer/Physicist, DP-856/802/896/1310-1/2/3, Code 36221 (two vacancies) - The incumbent will be involved in the analysis, testing and evaluation of the RAM electronic design for the RF or IR subsections of the RAM Guidance and Control Section for FSED and production support. Duties include: engineering analysis and design improvements; system and subsystem testing; analysis, documentation, and configuration reviews. Promotion potential to DP-3. To apply, send an updated SF-171 to Cheryl Preul, Code 36209, NWC ext. 1049.

No. 39-048, Interdisciplinary, General, Electrical, Mechanical, Aerospace Engineer, Physicist, Mathematician, DP-801/855/830/861/1310/1520-3, Code 3904 - This is a new position as the Second Source Manager in the Rolling Airframe Missile (RAM) Project Office, Weapons Department. RAM is a cooperative development program with the Federal Republic of Germany. A joint agreement stipulates a prime U.S. contractor with a German producer as a second source. This position will be responsible for coordination of NWC production support being provided to the German second source supplier. To apply for this position, forward an updated SF-171 to Jim Suhr, Code 3904, NWC ext. 4687.

No. 62-060, Interdisciplinary (General Electronics/Mechanical/Aerospace Engineer/Physicist), DP-801/855/830/861/1310-2/3, Code 62C1 - Serves as the focal point for program offices and other sponsors for test work on the NAVWPNCEN range. Responsibilities include test planning, fiscal management, test coordination analysis, and documentation for the F-18 Test and Evaluation Program. Coordinates the efforts of professional and technician teams. Requires contact with sponsors, technical and administrative associates, NWC managers, contractors, and national associates. **Job Elements:** Ability to analyze and thoroughly understand the requirements of complex technical programs; motivate others as well as communicate effectively, both orally and in writing; effectively work with various organizational levels at the NAVWPNCEN and with off-center organizations; knowledge of instrumentation and data analysis techniques. To apply send an up-dated SF-171 to Larry Thompson, Code 62C1, NWC ext. 5807/5809.

No. 64-195, Supervisory Computer Programmer, DP-334-3/4, Code 6441 - This position is that of Head, Test Support Branch, Electronic Warfare Threat Environment Simulation (EWTES) Division of the Aerosystems Department. The Branch develops, maintains and operates software for acquisition and evaluation of data from Electronic Warfare tests at EWTES. The branch is responsible for development of software for major new systems being added to EWTES, for major upgrades to existing computing capability, and for software simulations of weapon systems. **Job Relevant Criteria:** Management experience in planning and allocation of personnel and financial resources; knowledge of electronic warfare/electronic warfare testing, radar, computers, real-time software, digital interfaces, communications and range operations; experience in managing projects and the ability to coordinate the efforts of a multi-disciplinary staff of professionals and technicians; ability to communicate effectively with all levels, both orally and in writing; ability to interact, coordinate, negotiate with NWC, Navy, DOD, and contractor personnel; knowledge of and willingness to support NWC EEO policies and goals. A one-year supervisory probationary period may be required. If filled at the DP-3 level, has promotion potential to DP-4; however, promotion is not guaranteed.

No. 64-194, Supervisory Interdisciplinary (General/Electronics/Aerospace Engineer/Physicist/Computer Scientist/Mathematical Statistician/Mathematician), DP-801/855/861/1310/1550/1529/1520-3/4 - This position is that of Head, Test Support Branch, Electronic Warfare Threat Environment Simulation (EWTES) Division of the Aerosystems Department. The Branch develops, maintains and operates software for acquisition and evaluation of data from Electronic Warfare tests at EWTES. The Branch is responsible for development of software for major new systems being added to EWTES, for major upgrades to existing computing capability, and for software simulations of weapon systems. **Job Relevant Criteria:** Management experience in planning and allocation of personnel and financial resources; knowledge of electronic warfare/electronic warfare testing, radar, computers, real-time software, digital interfaces, communications and range operations; experience in managing projects and the ability to coordinate the efforts of a multi-disciplinary staff of professionals and technicians; ability to communicate effectively with all levels, both orally and in writing; ability to interact, coordinate, negotiate with NWC, Navy, DOD, and contractor personnel; knowledge of and willingness to support NWC EEO policies and goals. A one-year supervisory probationary period may be required. If filled at the DP-3 level, has promotion potential to DP-4; however, promotion is not guaranteed. Previous applicants need not reapply.

Secretarial opportunities

This column is used to announce secretarial 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 secretarial duties are implied by the job relevant criteria indicated below.

Applicants will be rated against four or more of the following job relevant criteria: (1) ability to perform receptionist and telephone duties; (2) ability to review, track, screen and distribute incoming mail; (3) ability to review outgoing correspondence; (4) ability to compose correspondence and/or prepare non-technical reports; (5) knowledge of filing systems and files management; (6) ability to meet the administrative needs of the office; (7) ability to train clerical personnel and organize workload of clerical staff processes; (8) ability to plan and coordinate travel arrangements; (9) ability to maintain and coordinate supervisor's calendar and to arrange conferences.

Unless otherwise indicated, applicants for branch secretary will be rated on elements 1/2/3/5/8; division secretary applicants will be rated on elements 1/2/3/4/7/8/9; 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. 00-013, Secretary (Typing), GS-318-5/6, Code 002 - Incumbent serves as secretary to the Head, Internal Review Staff and provides full range of office services to members of the staff. Must demonstrate ability to safeguard administratively sensitive information. Knowledge of and working experience on the XEROX 6085 is desirable. Must be able to obtain a security clearance at the SECRET level. Promotion potential to GS-6.

No. 33-032, Secretary (Typing), (Continued on Page 18)

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High scoring games in soccer competition

Hard work and some unexpected scores highlighted the third week of play for the Recreational Services Department's Youth Soccer League.

Division 1
Cobras 6, Owls 2
Efforts by Tammy Yeager, David Rollingson and Sean Sewill, along

with goals by Jeff Robbins (1) and Chris Peters (5), secured an easy win. Strong efforts by Kyle Jensen, Jason Clark, Mikael Peterson and Kim Dodson weren't enough in the loss. Jeremy Wiegert scored both points for the Owls.

Apollos 2, Rowdies 1
Despite fantastic goal tending by Warren Mayer, the Rowdies couldn't stop Apollos' Brandon Tullio and Todd Downs from notching two points. Jamie Critchfield and Robert Hoffman were definite assets in the win. Sam Miles, assisted by Christiana Oliva, made the only point in the loss.

Roadrunners 1, Eagles 1
Excellent goal keeping and strong defense made this a very exciting game. The Roadrunners' goal was nudged in by Thomas Koelsch and the Eagles' goal was booted in by Thomas Martin.

Express 5, Rowdies 0
Teamwork, saves by goalie Mike Bachman and goals by Andy Gates

(2), Pete Greedy (2) and Barrett Edwards (1) created an easy victory. **Express 2, Coyotes 1**

Pete Greedy and Joey Shumway each earned one goal; while Galen Wilson and Andy Gates were credited with assists.

Division 2
Roughnecks 2, Bullets 1
Excellent passing by Ian Lelis and a tremendous job at defense by Kurt Katzenstein ensured the win. Mitchell Tims and Matthew Girardot kicked in the winning goals. Despite excellent jobs by Rodney Delosreyes, Reed Zamlan and Shane Simpson, the Bullets couldn't offset the Roughnecks. Scott Fuller scored the goal in the loss.

Tornados 6, Rockets 0
Efforts by Chris Potten, Cheryl Lubben, Missy Dodson, Parker Flagg and Bill Yeager weren't enough. The Tornados blew the Rockets away with goals by Vasken Haroutunian (3), Neil Covington (2) and Bill Nelson (1). Strong showings by Brett Trahey and Jeff Janson assisted in the win.

Roughnecks 4, Jets 0
A goal by Matthew Girardot and three goals by Ian Lelis, with great passing by Jennison Kenady, caused an easy victory. Mitchell Tims and

Jeremy Lough also played well in the win. "Interesting footwork" by Timothy Emerson and Nathan Swanson wasn't enough in the loss.

Cougars 3, Sounders 2
In a close game, plays by Stanley Scofield, Behrang Goodarzirad and Kate George tipped the scales to victory. Cougars' goals were knocked in by Frank Gamble (1) and Derek Falk (2). Stephanie Peterson made a valiant effort, but the Sounders couldn't turn the tide. Jason Mangrum, on a pass from Jason Ford, and Chris Branson scored the only points in the loss.

Diplomats 2, Jets 1
Two saves by goalie Corinne Stuart, and goals by Nick Pritchard and Daniel Harley in the last five minutes won the game. Excellent plays by Galen Hollins, Timothy Emerson, Aaron Knecht and Adam Freund made the opposition work for the win. Jets' lone goal was provided by Glenn Conrad.

White Caps 5, Kicks 0
Moves by Wesley Woodward and defense by Patrick Ross helped to prevent the Kicks from scoring. Goals by Louis Moore (2), Mike Hobson (1), Salvador Ramirez (1) and Michael (Continued on Page 11)



OUCH! — Capt. John Burt gets his flu shot from LCdr. Dorothy Michael, the Senior Nurse at the Branch Medical

Clinic. All active duty military personnel on board the Center are required to get the flu shot. — Photo by PHAN Cary Brady

Flu shots slated

It's flu time again!

To prevent the spread of the disease that can lay people low for seven days or more, all active duty military personnel are required to receive immunization.

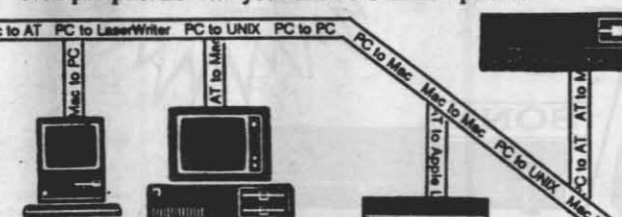
In order to accommodate all active duty military personnel, these mandatory shots will be given from 7:30 until 11 a.m. at the Airfield in Hangar 3's Pilot Lounge on Oct. 16, 29 and

30; and in the Preventative Medicine Office at the Branch Medical Clinic on Oct. 19 and 20.

Following the required immunizations for active duty military personnel on Oct. 30, immunizations for dependents and retired personnel will be given. Individuals interested in receiving this shot, or needing more information, should contact the clinic at NWC ext. 2911.

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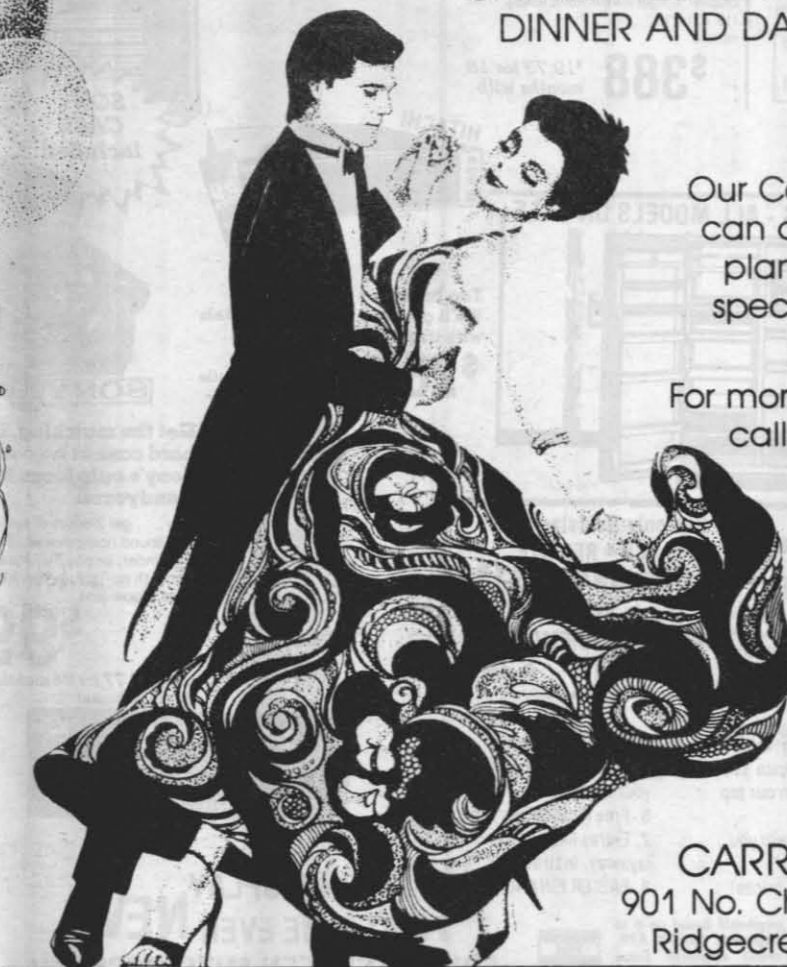
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Auto Meter Tach \$29.95 Features turn and barrel base. 3 1/2 in. dia. Black, 8000 RPM. For 4, 6 and 8 cyl. engines. Factory ignitions. #2300.	Hubs \$49.95 Offers manual locking and unlocking of hubs when shifting in or out of four wheel drive. Features weight saving components. Fits most four wheel drive vehicles. #9790.	Chrome Fuel Bowl \$49.95 Heavily chromed and buffed smooth for a luxurious finish that's durable and good looking. Kit is for one carb with side pivot bowls for single pump. #34500.	Easy-Flow Air Cleaners \$14.95 14" chrome air cleaner. #1480.	Standard V8 Headers \$59.95 Headers feature individual exhaust port flanges and standard 3 bolt collector. Non spring pump applications.	Header Muffler \$15.95 Super high performance, high quality, header muffled muffler provides excellent sound management. Easy to install. Comes with 3 bolt header flange for direct bolt in to virtually any 3 inch header collector. #41992.
Universal Fender Flares \$39.95 Protects 4x4s, pickups, and vans with oversized tires from minor dings and off road scrapes. Extruded rubber cushions impacts, won't crack or break in cold weather. #41001.00.	ACEL Super Coil \$31.95 Tough alloy super coil for all 12V H.E.I. systems. Replaces stock coils with red yellow wires. #14003.	Chrome Universal Step \$12.95 Features anti shock material in push installed. This step is designed to aid entry into standard height or raised vehicle. Fits most mini and full sized pickups. #8020.3.	<p>Prices good at participating Performance Corner Stores near you thru October 31, 1987. Each Performance Corner Store independently owned and operated. Some parts not legal for sale or use on passenger controlled vehicles in California.</p>		

Yosemite fall

Fall in Yosemite National Park's high country is a season of change.

Leaves on aspens and willows change from green to yellow and then to brown. Ferns go from green to brown. And, the streams almost vanish as the snow has all melted away, leaving room in the mountains for a new winter accumulation of moisture.

In Tuolumne and Dana Meadows, everything, except pine trees, has turned various shades of yellow and brown. It ranges from a pale yellow of a just turned aspen tree to the almost rust color of some shrubs. The Tuolumne River still winds its way through the meadow, but it is a mere trickle compared to the spring and early summer flows.

YOSEMITE FALL— Dana Meadows, near Tioga Pass and more than 9,000 feet above sea level offers a spectacular view, while it's a long way down to the trees in Lee Vining Canyon just outside of the park.

The small streams that visitors must jump over in spring and summer have now dried up and only the empty streambed remains to remind one of the lushness the meadows are capable of.



October 16, 1987

The ground squirrels, chipmunks and marmots are busy gathering food for the winter, while deer are moving into the park to avoid hunters and the seldom seen bears are preparing for winter hibernation.

But, for the typical motorist making a quick day trip across the Tioga Pass Road (Highway 120) from Lee Vining to Crane Flat, what they notice the most is the weather. Monday, for example, visitors faced rain, snow, sleet and hail to go with occasional patches of sunshine.

Storm clouds form over the Sierra on a daily basis now. Often the storms fail to develop, but they can turn nasty very quickly in the fall.

People making the journey between Highway 395 in the east and the old gold mining community of Groveland in the west will also get some vivid reminders of the power of nature.

Near Lee Vining they'll see the

colors of fall in aspen groves of Lee Vining Canyon. Then, not too far east of Groveland, they'll drive through miles of a forest devastated by fire just a month ago. As far as the eye can see, the Stanislaus National Forest, just a few miles from the Yosemite Big Oak Flat entrance, is a textbook example of a natural

disaster. The drive can be eerie and depressing.

Yosemite, however, is not depressing. Fall in the park's high country is beautiful. There are constant reminders that the next and perhaps most awesome season, winter, is next and not too far away.

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FLYING HORNETS—Naval Weapon Center and Air Test and Evaluation Squadron Five (VX-5) personnel from China Lake continue to be involved testing operational flight programs (OFPs) for the F/A-18 Hornet, the newest Navy attack aircraft. The F/A-18 Weapons System Support Activity (WSSA) in the Aircraft Weapons Integration Department works with the Naval Air Systems Command, McDonnell Aircraft Co. and fleet pilots in testing OFPs. Each new OFP is designed to correct problems noted by pilots, add new weapons capabilities or enhance existing aircraft systems. The last OFP released to the fleet changed about 30,000 lines of computer code out of an estimated 350,000 lines in each OFP.



Pasadena lost out to Mojave Desert

When the Naval Ordnance Test Station (now NWC) was being built at China Lake, a group of the CalTech scientists who were working with the variety of programs underway proposed the main laboratory facilities be built in Pasadena and the desert lands be used mainly as test ranges to sup-

port the Pasadena facility.

After careful consideration, the Navy, however, decided having an integrated facility where research, development, test and evaluation could take place in one location was vital, so the main NOTS operation continued to be located at China Lake.

The Pasadena facility (on Green Street), was used for such functions as administration, payroll, personnel and facility building and maintenance. About 500 people worked in the 60,000 square foot Foothill Plant. In 1946, it acquired its official name of "The Pasadena Annex"

The Pasadena Annex worked mainly with a variety of torpedo and other underwater programs. When the Navy laboratories were restructured on July 1, 1967, all the underwater work was transferred to the cognizance of San Diego-area facilities, and China Lake lost its "Annex."

NOTS had ASROC lead

ASROC, the antisubmarine rocket, under the technical direction of NOTS engineers was designed, developed, and produced in close cooperation with a number of industrial establishments.

Through continual, exhaustive and painstaking tests, the NOTS-contractor team guided the development program from an idea to a fleet-tested weapon system — rocket, airframe, range-control device and payload accessories. The payload consisted of an improved homing torpedo or a new, compact depth charge developed at NOTS. The deadly accurate missile shed its rocket motor in flight and its airframe shortly before the payload entered the water. When the payload was a torpedo, its plunge into the target area was slowed by a parachute. After hitting the water, the torpedo was energized by a sea water battery; homing acoustically, it locked onto its target and pursued it to destruction. The ASROC depth charge sank to detonate with deadly effect at a preset depth.

Naval Weapons Center Commander, Capt. John Burt, welcomes visitors from Kern, Inyo, Mono
Welcome to China Lake: and San Bernardino Counties to the NWC, Navy Birthday Celebration on Saturday, Oct. 17

NWC Rocketeer

Naval Weapons Center, China Lake, California 93555-6001

Vol. XLII, No. 41/October 16, 1987

Naval Ordnance through Science



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NWC's Birthday Celebration Schedule

10:00 -----Gates Open
10:00 -- Parking Lot Displays Open
10:00 -----Michelson Lobby Opens
10:00 -----Laboratory Tours Begin
10:00 -----Aircraft Displays Open

1000D SCHEDULE

10:30 ----- Film-Evening Colors
11:00 ----- NWC Overview
12:00 -----Geothermal Program
12:30 ----- Film-Desert Stewardship

1:00 ----- Environmental Programs
1:30 ----- NWC Overview
2:15 ----- Film-Evening Colors
2:45 -----Geothermal Program
3:00 ----- Celebration Closes





LOADING UP—Sailors on onboard an aircraft carrier load on A-7 Corsair II with Sidewinder Missiles. The newest version of the Sidewinder, AIM-9R is the latest in a long line of successful weapons developed by China Lakers

U.S. Navy Photo

ON THE COVER

Don Cornelius, a photographer with the Technical Information Department's Photographic Division, captured this view of an F/A-18 Hornet loaded with a High Speed Anti-Radiation Missile (HARM) one foggy evening at Armitage Airfield.

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Sidewinder is China Lake

Most widely known weapons system from NWC

Sidewinder probably is the most widely known of all weapon systems ever developed at China Lake.

First announcement of the new heat-homing guided missile came in 1956 although the program had been officially recognized and funded since 1950. Since then, it has spawned a family of missiles used by the Navy, Air Force, North Atlantic Treaty Organization (NATO) and numerous other countries around the world.

The work on Sidewinder evolved at the Naval Ordnance Test Station, China Lake, from airborne fire-control systems for air-to-air weapons. Navy civilian scientists recognized that if the systems then in use were simplified, both accuracy and reliability would improve. Using Exploratory and Foundational Research funds, NOTS scientists and engineers developed the concept of a "heat-homing rocket" and, in 1949, made the first formal proposal for such a weapon.

In 1950 NOTS was authorized to undertake fuze, warhead, and

flight systems development, and on Nov. 27, 1950, the code name "Sidewinder" was chosen.

Since Sidewinder I became operational in June 1956, a host of improvements have added to the missile's capability.

The first Sidewinder released to the fleet, Sidewinder 1A (Navy-Air Force AIM-9B), doubled guidance time and greatly increased high altitude performance over Sidewinder I; this was the first of the missile family to see combat use. It was first successfully used in combat by the Nationalist Chinese in September 1958.

China Lake involvement with the weapon has lasted from early conceptual work in 1946 until the present day. Not only have concepts been born, developed, and

tested, but involvement has included working with producers



New lab open. . .

(Continued from Page 7A)

elsewhere thought an evaporative cooler system would serve adequately (and be much cheaper) than the 14,000-ton Freon mechanical refrigeration and evaporation system others felt was essential. Air

Laboratories required the stability of temperatures

conditioning won, because the laboratories required the stability of temperatures that such an air conditioning system would ensure.

While the laboratory was being built, Duncan went on another purchasing adventure to buy the equipment for the laboratory. Duncan used the money he was given (almost \$5 million by the time he was through) to buy, beg and get as wartime surplus those items essential to the research planned.

Typical of the spirit of "let's get on with the Navy's business," that has characterized China Lake over the past 44 years, some personnel were already hard at work within the new laboratory building by the time of its dedication on May 8, 1948.

First American to win a Nobel prize in science

Obvious to Duncan and others was that the new facility with nearly 10 acres of floor space devoted to RDT&E should have a distinguished name. And what was more distinguished than that of Dr. Albert A. Michelson, who combined a Navy career with a scientific one distinguished enough to be the first American to earn a Nobel prize in science?

Those dedicating the laboratory thought big — they invited everyone from the President and Senators to other distinguished national and state figures. Fortunately, most did not accept because there would have been no way to house them in what was still a station being built.

Among the distinguished guests who did appear, however, were some world renowned scientists — Dr. C. C. Lauritsen and Dr. Robert A. Millikan of Cal Tech — and such outstanding Navy personnel as John Nicholas Brown, Assistant Secretary of the Navy for Air, and Read Admiral A. G. Nobel, Chief of the Bureau of Ordnance.

Also present were the three daughters of the man for whom the laboratory was named, who expressed an appreciation in being able to share in the dedication of the laboratory named for their renowned father.

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Aerosystems' three unique divisions. . .

(Continued from Page 9A)

former head of the EWTES Division, became head of the Aerosystems Department at that time.

The Aerosystems Department is comprised of three unique divisions, Recovery Systems Division, Telemetry Division and EWTES, servicing a variety of programs and providing a multiplicity of RDT&E, fabrication, and support services to NWC, the Navy, Army and Air Force. These divisions comprise a total workforce of 290

The fleet uses parachutes in four main areas. Personnel recovery for emergencies in probably the most widely known area. The department designs parachute and escape systems to provide military aircrew members with the means to exit to safety in the unforeseen event that their aircraft is likely to crash.

The department also develops parachutes to support the Naval Special Warfare Operations (Seal Teams). Missile recovery, cargo delivery, and deceleration/stabilization provide the means for recovering an entire missile or missile components; deceleration of payloads in varying sizes, shapes, and weights, slowing down aircraft once they have touched down; and helping to pinpoint the delivery of missiles or bombs to their targets.

The Recovery Systems Division provides a complete spectrum of parachute technology "from the cradle to the grave." The designing and fabricating of prototype test models, testing of these models for in-service qualification and continued technical and logistical support of parachute systems is part and parcel of this element of the Aerosystems Department. Testing support of these systems is provided by a Navy detachment of 15 highly trained Navy Test Parachutists assigned to the department.

The Telemetry Division provides resources for the development, test and evaluation of telemetry systems and related instrumentation for aircraft, weapons and human/vehicle mounted instrumentation systems and parachute related escape systems.

A core group of personnel provide the expertise to develop, tailor, fabricate and support a myriad of requirements throughout NWC, Navy Army and Air Force.

The Telemetry Division has been instrumental in design, fabrication and installation of secure telemetry in all Navy weapons systems. Protection of weapon systems telemetry data will continue to be of paramount importance to NWC and the Navy.

EWTES also supports intelligence research. . .

Now, and in the future, the goal of the division is to provide state-of-the-art designs in the development of telemetry systems for weapons systems, while keeping the cost of weapons RDT&E competitive.

Because good systems cannot be built without good documentation,

the Telemetry Division develops and maintains documentation packages for the fabrication of highly reliable and precise data gathering systems; thus assuring traceability of design and consistently high quality end-user products.

The Electronic Warfare Threat Environment Simulation (EWTES) facility is the principal Navy RDT&E range for airborne electronic warfare systems. The EWTES facility was established in 1967 on the Center's Randsburg Wash/Mojave B Complex to support Navy requirements in the RDT&E of airborne electronic warfare systems and tactics.

EWTES also supports a comprehensive intelligence research program under the guidance of the Naval Intelligence Support Center. Research done at EWTES

requires continuing detailed threat assessments and produces design specifications used in development of hardware and software simulations. These hardware and software systems are emplaced at the EWTES facility, tied into the core instrumentation, operated and maintained to support electronic warfare testing.

EWTES has the capability to measure aircraft time, space and position; compute threat-radar tracking errors caused by airborne countermeasures; simulate the launching of missiles against the aircraft being tracked; and determine hypothetical missile miss distances. This determination can be accomplished on a one-on-one basis or by using various combinations of electronic countermeasure devices, or tactics, against multiple types of radar emitters.



HAPPY ANNIVERSARY FROM

CONTEL Telephone Operations

IN FORMATION—Five of the several types of aircraft to be display at the NWC Birthday Celebration on Saturday, Oct. 17 from 10 a.m. to 3 p.m. are (from left) the AV-8 Harrier, A-7E Corsair II, A-6E Intruder and A-4 Skyhawk. The aircraft pictured belong the Air Test and Evaluation Squadron Five (VX-5) assigned to China Lake. U.S. Navy Photo



NWC lost its San Clemente Island outpost

For a few years of its lengthy history (since it was discovered by the Portuguese explorer Cabrillo in 1542, San Clemente Island was under the administrative control of what was then the Naval Ordnance Test Station.

The island, located about 70 miles west of San Diego, had been

used by the Navy extensively during World War II for various types of training. Title to it had been transferred by Executive Order from the Department of Commerce to the Navy in 1934.

In 1957 both an airfield and other facilities were scheduled to be built, and construction began.

When the program for which the airfield was being constructed was dropped in 1959, those personnel who remained on the island continued construction on their own—with varied results. The island continued to be used for both training and tests, and was available when NOTS needed a sea range for test-

ing of such weapons as Polaris. On July 1, 1962, when NOTS accepted administrative responsibility for San Clemente, the Navy contingent was 120 enlisted personnel and about 200 civilians.

At the San Clemente Island sea range, antisubmarine weapon systems, torpedoes, and special mis-

siles such as Polaris were tested. When NOTS became the Naval Weapons Center on July 1, 1967, all underwater work was moved to the control of San Diego Naval laboratories and San Clemente and the Pasadena facilities ceased being part of China Lake's far-flung facilities.

A use for hot air

Hot air balloons for use in a variety of weapon component tests and for other purposes were first introduced at what was then the Naval Ordnance Test Station in the early 1960s by Ed Yost, who is credited with being the "father of hot air balloons."

Yost was friend of Jim Craig, an engineer on the Briteye flare project. Briteye, a flare designed to illuminate targets at night, needed a stable test platform, and Craig thought that a hot air balloon would be ideal as a test platform. After Yost's demonstration of his hot air balloon, the Navy agreed and the first of China Lake's hot air balloons was ordered.

Early hot air balloons had used burning straw or other materials in a fire pit in the gondola to provide the hot air that filled the fabric balloon. Yost's new balloon used a propane-burning heating system that generated enough BTUs for heating massive amounts of air at a low cost, and modern materials such as rip-stop nylon and nomex for a sturdy and light weight envelope.

In free flight the hot air balloon would move slowly with a minimum disruption of air around it; it could also be held in one spot at the end of its 5,000-foot tether, and could be inflated in only half an hour when weather conditions

were right (winds of under 7 miles per hour).

Other benefits also were obvious when the balloon was put to use in early 1964. A hot air balloon is simple to repair and to maintain, as well as being easy to store and transport since it folds flat and both it and its gondola can fit into the bed of a pickup truck.

Cost of flying is also low, since it amounts to the cost of the propane needed for the burners—a lot less than the cost of keeping either an aircraft or a helicopter in the air. A whole day of flying the hot air balloon uses only about 40 gallons of propane.

Most of the tests conducted on Center ranges with the first hot air balloon and with all those purchased in the more than two decades since have had the big wind bag tethered rather than in free flight since a hot air balloon moves at the discretion of the wind rather than in controlled flight.

A licensed balloonist must be aboard at all times, however, even in tethered flight because the balloon could break lose.

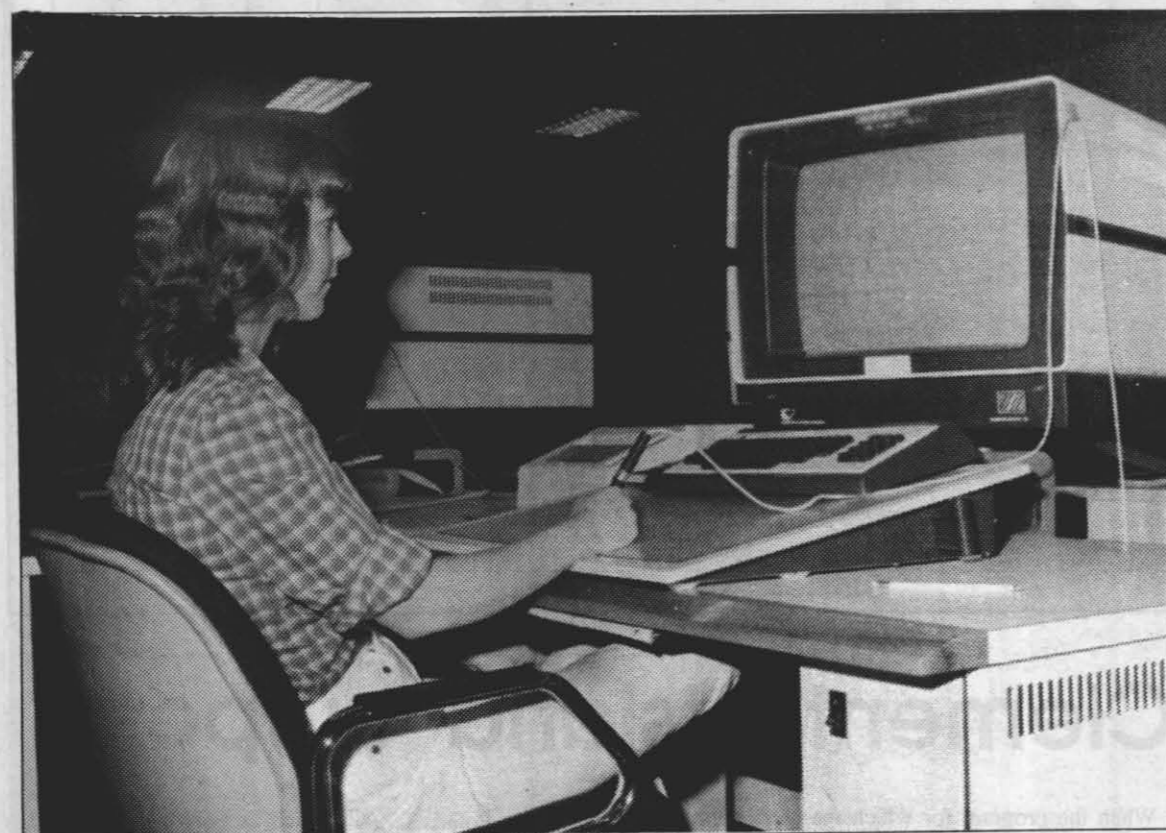
While a number of Center personnel became licensed balloon pilots in the past, now it requires passing a written FAA test as well as spending at least 35 hours in hot air and helium balloons with a minimum of 6 hours of instruction.

CONGRATULATIONS To The NAVY And The NAVAL WEAPONS CENTER

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CAE links computers with skilled personnel



COMPUTER ASSISTANCE—Leslie Broaker uses a ComputerVision work station in the Computer Aided Engineering Service Center. This facility is in the new Engineering Laboratory. Photo by PHAN Cary Brady

Laboratory space for the Computer Aided Engineering (CAE) Service Center is an integral part of the Engineering Laboratory within the Michelson Lab compound. Visitors to the Navy Birthday celebration will be able to tour part of the CAE facility.

Among the features visitors will be able to see is the ComputerVision room where computer operators will display complicated engineering drawings produced by computer operators and engineers. Computer Aided Engineering Service Center personnel will be available to answer questions about this state-of-the-art system.

Additionally, visitors will be able to get a hands-on feel for writing or drawing with CAE equipment, and get handouts of drawings done on the two large flat bed plotters linked to computers in the Engineering Lab.

Don Miller of CAE Service Center said the facility provides an interface between the power of the graphics computer and the technical skills of NWC employees. The center makes available to the Center's technical community the computer's inherent ability to store, retrieve, manipulate and display information with unsurpassed speed and accuracy.

Through CAE, the engineering interactively develops a design in detail, while monitoring the work on the computer display monitor. By issuing commands to the system, an engineer can create, modify and document a design. Links from the graphics computer to a VAX or mainframe computer allow creation of numerical control tapes for the machine shop. The entire process can be done without drawing a line on paper.

The CAE process allows complicated, detailed designs to be produced in about half the time it would take for the old manual method with pen, ink and paper.

This building, opened in early 1985, is home to most employees of the Naval Weapons Center's Engineering Department. The 60,000 square foot facility cost more than \$6 million to build.

One benefit of the two-year old building was the ability it gave the Engineering Department to bring such widely separated department functions as CAE and Soldering Technology Branch operations under a single roof.

The newest of NWC's laboratory buildings, this facility also includes specially designed area for soldering, failure-analysis labs, a plating area and special dark-rooms in the interactive graphics area.

Innovative use of space part of the new facility

Other parts of the building, not on this year's tour path, include individual work stations, each equipped with wiring for computer terminals as well as telephones. Use of available floor space was enhanced through creative planning of offices and the use of system furniture to provide a minimum of 40 square feet of work area for each employee. There are several mini-conference rooms for small gatherings of employees.

In keeping with NWC's efforts toward energy savings, the entire building stressed energy conservation. The high earth berm on three sides helps replace artificial insulation inside the building and the natural ground cover serves as additional insulation, reducing energy costs.



JUMP JET—A Marine AV-8 Harrier hovers in front of China Lake's Hangar One, home of Air Test and Evaluation Squadron Five. U.S. Navy Photo

Special skills, facilities vital to Aerosystems

Piloting a combat aircraft has always been a risky business. The pilot has a lot to think about, including the law of gravity. If the aircraft ceases to function, the pilot, along with the aircraft, heads quickly to earth.

A major effort of the Aerosystems Department, formerly the Parachute Systems Department, is to ensure the pilot and aircrew of a disabled aircraft have the highest possible chance of surviving their reacquaintance with the earth's surface.

This effort involves the research, development, test and evaluation of parachutes and escape systems; systems that are as advanced as the aircraft and space vehicles in which they are deployed.

The Aerosystems Department is a relative newcomer to the Naval Weapons Center, having moved here from El Centro as the Parachute Systems Department in July, 1979. When the 110 civilian and 22 military personnel moved from the Navy Parachute Test Range (NPTR), El Centro to NWC and formed the Parachute Systems Department, few considered that this new department would grow into the diverse organization it is today.

The department has grown both in size and diversity of capability. In November of 1982, the Telemetry Test Engineering Division was added to the department; adding to the capabilities of the department and resulting in a change of name from the Parachute Systems Department to the Aerosystems Department.

May of this year marked the most recent change, with the addition of the Electronic Warfare Threat Environment Simulation (EWTES) Division. Milt Burford, the



DOWN AND OUT—Test parachutists from the Aerosystems Department not only test parachute design and reliability, they maintain their skills with regular jumps.

(Continued on Page 10A)



SEM analysis still an important tool

Scanning electron microscopes (SEM) used at the Naval Weapons Center have made contributions to several phases of propellant research in addition to use in the areas of failure analysis and elemental analysis.

One SEM is operated by the Materials Engineering Branch of the NWC Engineering Department. With a magnification capability of up to 2,000,000X, this sophisticated analysis device is very useful in delineating microscopic features of various samples.

Photomicrographs obtained with the SEM have enabled researchers at NWC to infer mechanisms of oxidizer decomposition and interaction of oxidizer, binder and metal particles during burning of various types of propellants.

Often SEM data will assist combustion science researchers in making a choice between several hypotheses.

A special feature of the SEM in the Materials Engineering Branch

is the energy-dispersive x-ray analysis (EDX) capability. This allows researcher to accomplish such tasks as inspecting laser welds on various metals in addition to examining the weld area for contamination. The EDX feature will construct a map of elements as they appeared in the weld areas, showing operators and researchers if certain elements were present when they should not be for a clean weld.

The electron microscope gives a magnification and resolution impossible to obtain with normal optical microscopes. Cracks in the microstructure of a weld, not readily visible using optical techniques, become readily apparent when viewed by the SEM at 20,000X.

This device, and others such as the scanning auger microprobe (SAM), give the materials Engineering Branch excellent capability to conduct materials analysis for China Lake projects. These capabilities are among the best in the western United States among research facilities.

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Simulation brings new era to tests of missile systems

Housed in Michelson Laboratory, the work of the "Sim Lab" has saved uncounted time and money in the development of weapons for the Navy.

Work on such a simulation facility began in 1962, and became an operational facility by the late 1960s. Equipment in the Sim Lab has been continuously updated to meet the requirements of testing weapon components for the past two decades. Both analog and digital computers have been used in conjunction with other equipment such as Carco tables.

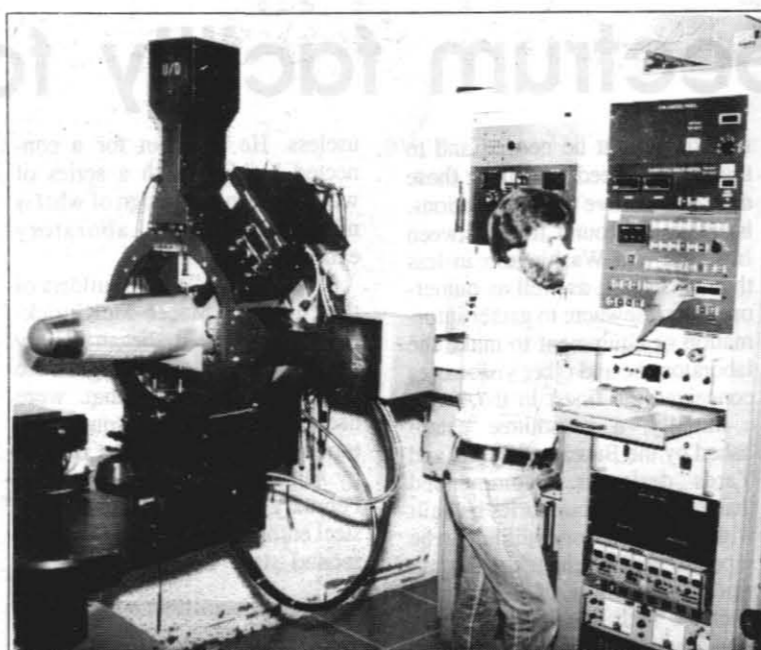
The real advantage of the facility

is that it permits repeated tests in real time or less than real time. (Real time for a missile, for instance, would be the time actually spent in flight.)

Electronic analog elements of the equipment couple to electronic weapon system components in such a way that the actual hardware being developed or tested can be exercised with the simulation system representing the rest of the weapon system. The component hardware in a missile flight test, for instance, "thinks" that it is actually flying.

By the time that a real missile or component is test flown on the Center's ranges, its components have usually made hundreds if not thousands of non-destructive flights in the Sim Lab to ensure that all systems work.

Sim Lab staff members work closely with project personnel to ensure each test produces the maximum information needed. Because of the speed, flexibility and precision of tests and non-destructive nature of the tests, studies are feasible that otherwise would be prohibitive in cost.



SIMULATION—Hardware-in-the-loop simulation has been an important part of weapon system testing

U.S. Navy Photo

NWC becomes permanent in 1971

Although the Naval Ordnance Test Station was established on November 8, 1943, and it became the Naval Weapons Center on July 1, 1967, only on July 21, 1971 was it considered a permanent installation.

On that date, John H. Chafee, then Secretary of the Navy, signed a paper reading:

"This statement affirms the permanency of the Naval Weapons Center, China Lake, California and the intended level of operation and employment of the Center.

"The Naval Weapons Center is a primary research, development, test, and evaluation activity of the Department of the Navy and is the principal Navy installation involved in the development of Air Weapons Systems and new ideas in related fields of science and technology. It is considered by the Secretary of the Navy to be a permanent installation of the Naval Shore Establishment.

"There is no intention, insofar as can be foreseen, to substantially curtail the mission of the Naval Weapons Center, nor to significantly reduce the number of personnel presently assigned to or employed at that installation.



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Michelson Laboratory evolves as leading full-spectrum facility for Navy RDT&E effort

At the time that the Naval Ordnance Test Station, now the Naval Weapons Center, was first conceived, the original planners in the Navy's Bureau of Ordnance were hoping to establish a facility that would have the full spectrum: Research, Development, Test and Evaluation.

A critical part of that plan was to develop the capability for both research and development, a laboratory that could serve those needs for scientists and engineers working towards the Navy of not just World War II but a Navy that would serve the nation into the indefinite future.

Critical to this was a laboratory—or a series of laboratories to deal with chemistry, physics, electronics, ballistics, metallurgy and the other sciences required for naval ordnance. Even though World War II was not yet won, these farsighted naval officers and their civilian counterparts planned for the future of what was to become the Navy's premier RDT&E facility, Michelson Laboratory.

Luck was with the facility even before its birth. LCdr. (later Captain) James A. Duncan, a former student of Dr. Albert A. Michelson, who was an instructor in physics

at the Naval Academy in 1943, took his Christmas vacation to go to Washington and seek some research assignments in which he could better use his technical background. In Washington he met

Capt. (later Read Admiral) Sherman Burroughs, who was about to leave for his new assignment as Commander of the newly formed Naval Ordnance Test Station. Burroughs decided Duncan could help

him build a laboratory and put in a request for transfer from the Naval Academy to the Bureau of Ordnance. By February, Duncan had orders designating him as "Laboratory Officer, Naval Ordnance

Test Station, Inyokern" and directing him to go to the Mojave Desert where the new facility was being built.

Duncan was directed to learn as much as he needed to about what

facilities might be needed and to travel as he needed. During those days of primitive travel conditions, he made 26 round trips between Inyokern and Washington in less than two years, as well as numerous trips elsewhere to gather information or equipment to make the laboratory he and other visionaries conceived the finest in the Navy.

Initially, a committee established by the Bureau of Docks and Yards designers recommended that a series of laboratories be built with each laboratory building to be separate and distinct so that no work done in any of them could interfere with that being done in any other. Finally, they decided that a series of six laboratories could contain the work that was planned: physics, chemistry, electronics, electrical engineering and metallurgy, with one for general use.

Since none of these designers were familiar with the desert, they proposed a series of buildings connected by open, shaded walkways. Duncan, who had experienced sand storms created when desert gales picked up the loose topping on the surfaces that had been cleared for buildings, recognized that such an open facility would be

useless. He held out for a connected building with a series of wings. The initial design of what is now Michelson Laboratory evolved.

"Building #5," as the builders of the firm of Macco-McKittrick-Morrison knew it, began slowly because the first buildings were those test facilities that were needed to finish the war quickly, a top priority. The site was cleared by August 1944, however, and by February 1945 foundations and steel reinforcing rods reaching to the second story were in place.

No one remembered that drains were also needed

Design flaws were found early as the builders tried to make the laboratory as flexible as possible. One of these could have been catastrophic: while everyone was concerned about bringing utilities into the lab, no one remembered that drains to take water out were equal-

ly essential. An extensive change order was required to solve that problem.

In April 1945, all construction halted as once more the wisdom of having both the test station and the laboratory in the desert was debated. Some maintained that it would make much more sense to put the laboratory in Pasadena, where it would be easier to recruit and retain scientists and engineers than to put it out in the wilderness that was perfectly appropriate for a test station to test ordnance and rocketry. Winning the argument, however, were those who had the wisdom to see the value of an integrated facility where research, development, test and evaluation could all be performed in close proximity to each other.

In January 1946, the decision was made to go ahead with the building, as a contract for \$5,060,000 was awarded to Johnson, Drake and Piper of Milwaukee, and construction was underway once more by the middle of March.

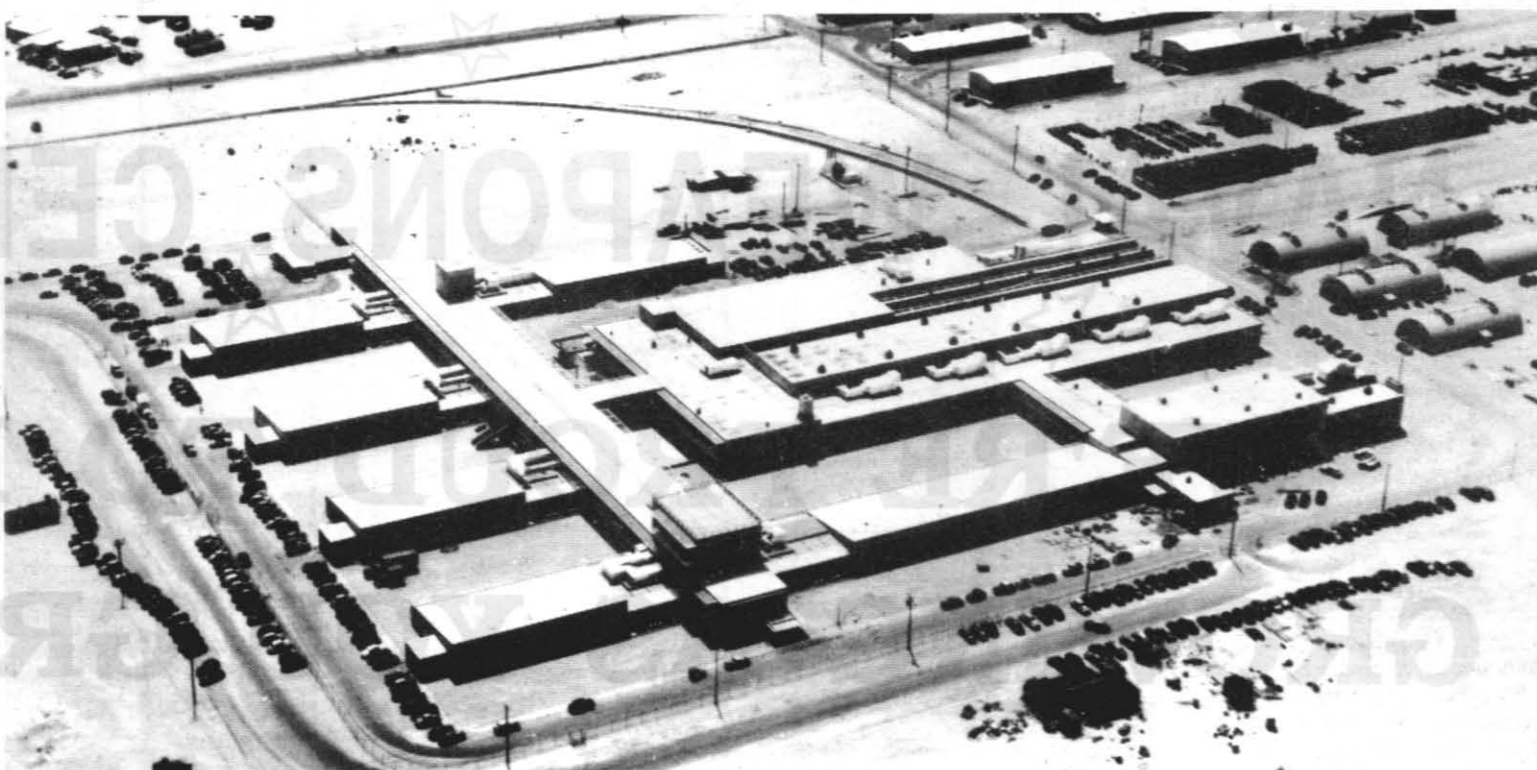
During this period of time, however, research and development had been proceeding in a series of temporary laboratories. The scientists and engineers were not await-

ing the completion of the building while they continued their work.

Everyone on board the Naval Ordnance Test Station enjoyed watching the massive new building arise (although the youngsters who'd used the cement slab as a marvelous skating rink during the hiatus were disappointed they

could no longer roller skate their way along the two-block-long slab).

One of the major discussions between those who lived in the desert and those who had planned the building (and did not reside in the desert) was over the need for air conditioning. Those who lived (Continued on Page 11A)



MICHELSON LAB—This aerial view shortly after dedication in 1948.



TODAY'S LAB—This more current aerial view was taken before the new Engineer Lab was constructed.

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