

LAW HONORED — Capt. K. A. Dickerson, NWC Commander, signs an Optimists' proclamation in honor of "Respect for Law Week" as Ridgecrest China Lake Optimist Club president, John Reynolds; Staff Judge Advocate LCdr. Mike Kelly; and Wally Bruce of the Optimists look on. The Optimists also held a dinner on May 4 at which Deputy Ralph Angeles of the Kern County Sheriff's Department and Officer Tim Falkner of the Ridgecrest Police Department were honored.

Spring festival to run May 22-6; advance ride tickets now on sale

For the 25th year the Knights of Columbus will sponsor Ridgecrest's Spring Festival at the Desert Empire Fairgrounds from May 22 to May 26.

Discount advance tickets for amusement rides are now on sale at NWC's Information, Ticket and Tour (ITT) Office. Advance tickets will remain on sale through May 22 only.

This annual event opens the vacation and fun season in the Indian Wells Valley. It is a major fund raising event for many IWW service clubs and organizations.

The theme this year is "Silver Jubilee... 25 years of serving the Indian Wells Valley."

There will be live entertainment nightly.

Permits for cutting firewood in national forest now available

Sequoia National Forest's program for issuing firewood cutting permits is now set for 1985.

Firewood Permit holders must complete load accountability receipts when hauling on National Forest lands. Permits are for dead and down wood only. Chainsaws used in firewood harvest on the Forest must have proper spark arrestors.

Greenhorn Ranger District began issuing permits at Kernville and Bakersfield. Permit holders can begin cutting on May 18. Cannell Meadow Ranger District will begin issuing permits May 28. Permit holders can begin cutting on June 1.

Cannell Meadows and Greenhorn minimum permits are \$10.00 each. Rates are \$5.00 per cord for softwoods and \$10.00 per cord for hardwood and mixed loads. They each have a 5 cord maximum.

Sierra Sands schools offer additional summer courses

The Sierra Sands Unified School District has announced that a variety of additional courses will be offered this summer in addition to the remedial courses provided in previous years.

These courses will help students currently in grades 7 to 12 meet graduation requirements.

Detailed information about the courses and other summer school offerings is available at the junior and senior high school offices in addition to being available at the district office, 131 Felspar, Ridgecrest.

Renowned expert to transformational mgt. to speak here May 31.

Center personnel interested in organizational behavior and how managers can affect strategic change should save a couple of hours on Friday, May 31, to hear an expert discuss that topic.

Dr. Noel Tichy, Professor of Organizational Behavior at the University of Michigan's Graduate School of Business Administration, will speak on "Managing Strategic Change: The Transformational Leadership Challenge" from 9:30 to 11:30 a.m. that day in the Michelson Laboratory Auditorium (Rm. 1000D).

His premise is that the pressure for basic organizational change will intensify over the years, and leaders must develop new vision for their organizations.

He will talk about the Chrysler Corporation and its head, Lee Iacocca, as an example of how transformational leadership can produce organizational changes.

Fleet Reserve Assn. slates 30th annual officer installation

China Lake Branch 95 of the Fleet Reserve Association will hold its 30th annual installation of officers tomorrow evening at the Chief Petty Officers' Mess.

A social hour at 6 o'clock will begin the evening, with dinner at 7. Dinner will be ordered from the menu, but members and guests are asked to notify the president or the secretary if they plan to attend to ensure adequate seating; their phone numbers are, respectively, 446-4993 and 375-3949.

Officers to be installed include H. J. (Joe) Tavare, president; A. C. (Skip) Bennett, vice president; R. L. Braddock, junior past president; and W. E. (Wally) Baker, secretary/treasurer. Installing officer will be James C. Eblen, the South West Regional Parliamentarian.

The new board of directors includes Edward Alba, Opel Anders, Tina L. Evans, Verne C. Tracey, and Arthur L. Trent.

All active duty and retired personnel are invited and encouraged to attend.

Square dancers meet

The Cactus Squares Square Dance Club will hold a Hawaiian Luau dance tomorrow evening at 8 at the Senior Citizens Center, 120 S. Warner St. in Ridgecrest.

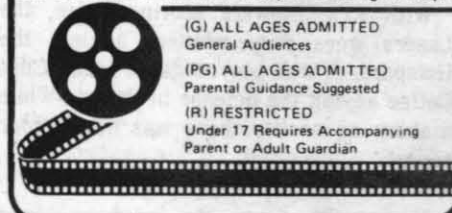
Jim Noh will call the squares and Chuck Ball will cue rounds. Further information can be obtained by telephoning Rick Kaspar at 375-9329.



HARD AT WORK — Pat White, as the cleaning lady in "How to Succeed in Business Without Really Trying," will be one of the performers in CLOTA's retrospective "Yesterday, Today, Tomorrow" to be seen tonight at 7:30 at Burroughs High School lecture center. All tickets for this fund-raising show, that showcases outstanding past performances as well as previews the future, cost \$7.50. Tickets can be purchased in advance from cast members and at the Music Man, The Booklet, Medical Arts Pharmacy, Farris's and Robert's Hallmark in Ridgecrest as well as at the door. — Photo by Clay Babcock

Movies

FRIDAY, MONDAY	"2010"	MAY 17, 20
	Starring Roy Schieder and John Lithgow (Science-Fiction, Rated PG, 116 min.)	
SATURDAY	"TOY SOLDIERS"	MAY 18
	Starring Jason Miller and Cleavon Little (Drama, Rated R, 85 min.)	
SUNDAY	"THE STONE BOY"	MAY 19
	Starring Robert Duvall and Frederic Forrest (Drama, Rated PG, 100 min.)	
WEDNESDAY	"IRRECONCILABLE DIFFERENCES"	MAY 22
	Starring Ryan O'Neal and Shelley Long, Drew Barrymore (Romantic-Comedy, Rated PG, 113 min.)	
FRIDAY	"THE RIVER"	MAY 24
	Starring Sissy Spacek and Mel Gibson (Drama, Rated PG-13, 124 min.)	
Starting Times: Matinee / 2:00 pm Evening / 7:00 pm Box Office Open: Matinee / 1:30 pm Evening / 6:30 pm		



Bad effects of stress on career women topic of ESCN talk

How stress and coronary heart disease affect career women will be the topic under discussion by Dr. Jeffery Besser at a meeting of the East Sierra Women's Network Wednesday at Le Parc restaurant in Heritage Village in Ridgecrest.

Networking starts at 6 p.m., with dinner served at 7, to be followed by Dr. Besser's talk.

The meal will be a chef salad with rolls and butter, coffee or tea, and dessert. Cost of the dinner is \$8.50 per person, and prepaid reservations are required. They may be made by mailing a check to ESCN, 429 Tepatitlan Court, Ridgecrest, CA 93555. Additional information may be obtained by telephoning 446-3105 after 4:30 p.m.

Discussion of AV-8B aircraft set at AIAA

The local chapter of the American Institute of Aeronautics and Astronautics will hear Squadron Leader Mike Young of the Royal Air Force discuss the AV-8B Harrier aircraft at the meeting to be held on Wednesday at 11:30 a.m.

The meeting will be held in the Commissioned Officers' Mess. Although food will be from the deli line, reservations are required and may be made by telephoning Ken Katsumoto, NWC ext. 7233; Jim Chicar, 446-7671; or Bob Neslon, NWC ext. 3040.

Thrift Shop offers exceptional prices

The Thrift Shop operated by the Women's Auxiliary of the Commissioned Officers' Mess will hold its spring half price sale next week.

Bargain hunters can take advantage of this special sale on Tuesday from 7 to 9 p.m. and again on Thursday from 10:30 a.m. until 12:30 p.m.

The Thrift Shop is located at 1809 Lauritsen Rd., across from Schoeffel Field. Everyone is welcome to take advantage of not only this special sale, but also the bargains offered on a regular basis.

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FROM: _____ PLACE STAMP HERE

TO: _____

Hot new rocket motor makes debut at SNORT

A new era in sled testing was ushered in last week at the Supersonic Naval Ordnance Research Track (SNORT) when a 550-pound payload was accelerated up to nearly 2,000 miles per hour in only 600 yards using one rail of the track. After burnout, the sled coasted smoothly to a stop nearly a mile short of the end of the 4.1-mile track.

This was made possible by the newly developed NWC Tiger rocket motor, which, for 1.2 seconds, develops 140,000 pounds of thrust while having a burnout weight of only 360 pounds.

The new motor was originally conceived by John Richards of the Track Operations Branch in the Range Department. His calculations showed that if the product of force-time, also known as total impulse, was kept constant, then the maximum attainable velocity would increase as the time decreased.

The Track Operations Branch provided funds to develop the Tiger motor.

Ray Miller's Propulsion Development Division of the Ordnance Systems Department accepted the challenge of converting expended NIKE-AJAX booster rocket motors into what promises to be the hottest motor in the fleet.

Paul Escallier of the Solid Propulsion Branch designed a new rocket nozzle and defined most of the geometric parameters for the motor, and Howard Gerrish of the

Propellants Branch developed a propellant system that could meet the rigorous requirements set by SNORT.

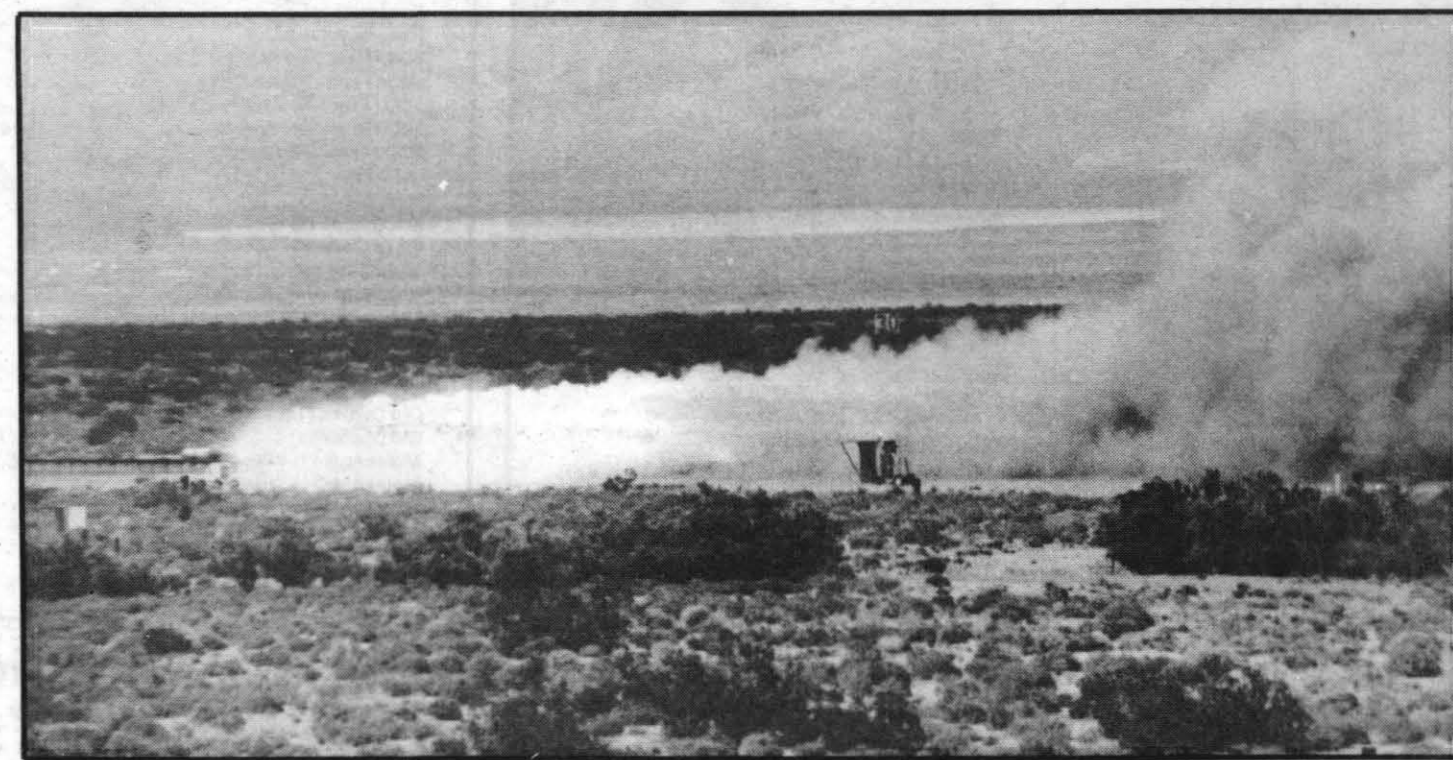
Norm Zwierzchowski of SNORT's

Baker-4 machine shop worked with Gerrish and Larry Lesniak in developing tooling and casting mandrels required to cast the new propellant, while Kevin Hovet, also in

the Propellants Branch, designed the rugged igniter required for the Tiger motor.

Fabricating the test stand hardware for

(Continued on Page 4)



WHOOSH! — The new Tiger motor, mounted on a single rail sled, gains momentum as it speeds down the track at the SNORT facility. It achieved a speed of over Mach 2.5.



Canadian Forces Support Detachment personnel working closely with Code 31 on CF-18 project

With a flourish, the bright red-and-white ribbon was cut last month as NWC and Canadian officials looked on. For the 18 members of the CF-18 Weapon System Support Detachment, the ceremony marked the official opening of their new building just south of Hangar 3. The new 3600-square-foot building is home to the contingent of Canadian Forces personnel who are working closely with the Center's Aircraft Weapons Integration Department.

NWC was selected as a training site for the Canadians who have purchased the CF-18, the Canadian version of the Navy's

F/A-18 Hornet. Due to complexity of modern fighter aircraft and their computers, software support is a top priority for Canadians in maintaining their new aircraft. Under a Foreign Military Sales case with the Navy, on-the-job training, termed "cooperative employment," has Canadian officers working directly with NWC engineers and aircrew from the F/A-18 Weapon System Support Activity (WSSA) in support of the aircraft and its software.

According to LCol. L. F. Daws, Commanding Officer of the Canadian Detach-

ment, the two-year training period will coincide with Canada's procurement of a Software Test Facility similar to that of the F/A-18 WSSA. The Canadian Forces' facility will be installed at their main CF-18 base in Cold Lake, Alberta, home of an extensive weapons testing center and site of the famous "Maple Flag" exercises in which many U.S. military squadrons participate. "By using equipment very similar to that in use at NWC," LCol. Daws points out, "both the U.S. and Canada can benefit from the exchange of improvements made to support software for the F/A-18 aircraft, no matter who may have had a hand in it's actual development."

Maintenance of aircraft computer software is a vital part of the work done by Aircraft Weapons Integration Department (Code 31) Personnel. Members of the Canadian team are distributed throughout Code 31's System Integration and Evaluation Division, as well as the F/A-18 Facility Branch. "We're here," LCol. Daws explained, "to learn how to support the computers on the F/A-18, how to test the software they contain, and to render maximum assistance in this effort." To this goal, each individual is assigned specific tasks by ap-

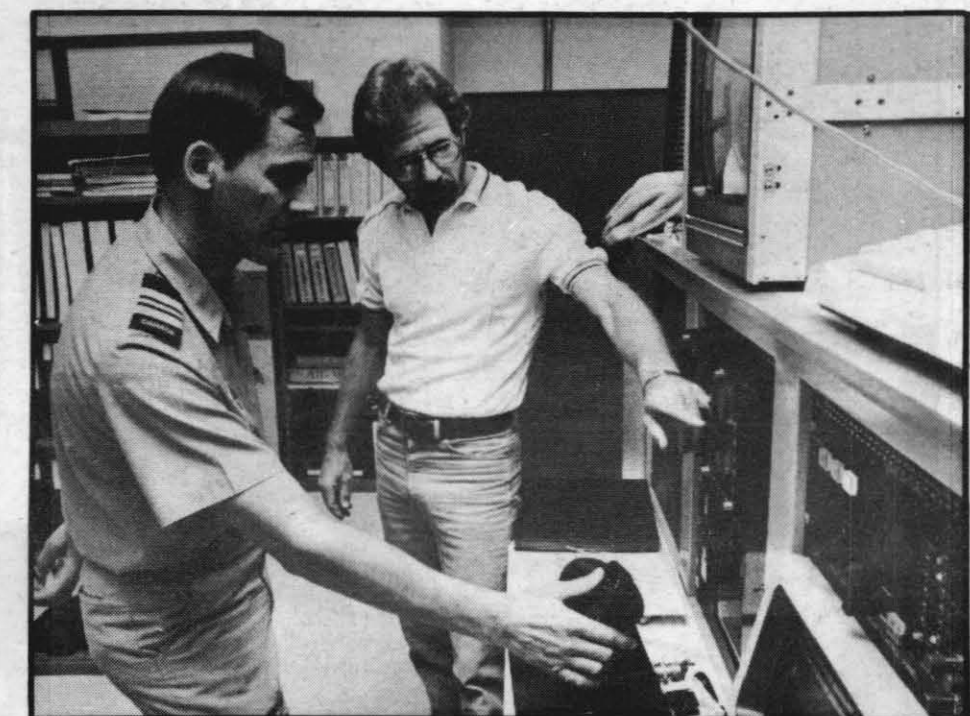
propriate Code 31 section heads and is monitored to ensure his training is of benefit to both nations.

In addition to LCol. Daws, Detachment Commander, key personnel in the contingent include Maj. Rick St. Germain, Facility Manager; Maj. Bob Hastings, Weapons Integration Officer; Maj. Dave Dyer, Tactical Support Officer; and Maj. Vern French, Mission Computer Officer.

Section heads in the Weapons Integration Department have praised the work of the members of the Canadian Detachment which includes tasks ranging from impact assessment of software changes to fabrication of equipment to be used in the Cold Lake facility. The continued ability to share developments is one reason Canadian Forces officers and NWC personnel have worked so effectively side-by-side during the past two years.

Once the training period has been completed and the current staff of Canadians return to their Cold Lake facility, a small contingent of software support people are likely to remain at NWC on a permanent basis. These personnel will serve as a vital link between the U.S. Navy and the Canadian

(Continued on Page 7)



WATCH THE INDICATOR — Don McCauley of the F/A-18 Project Branch shows Major (CF) Dave Dyer what to look for when operating some of the equipment in the branch. Maj. Dyer, like other Canadian Forces officers, works in the Aircraft Weapons Integration Department as part of the agreement of selling CF-18s to Canada.

Civilian housing rate increases are scheduled to start on July 1

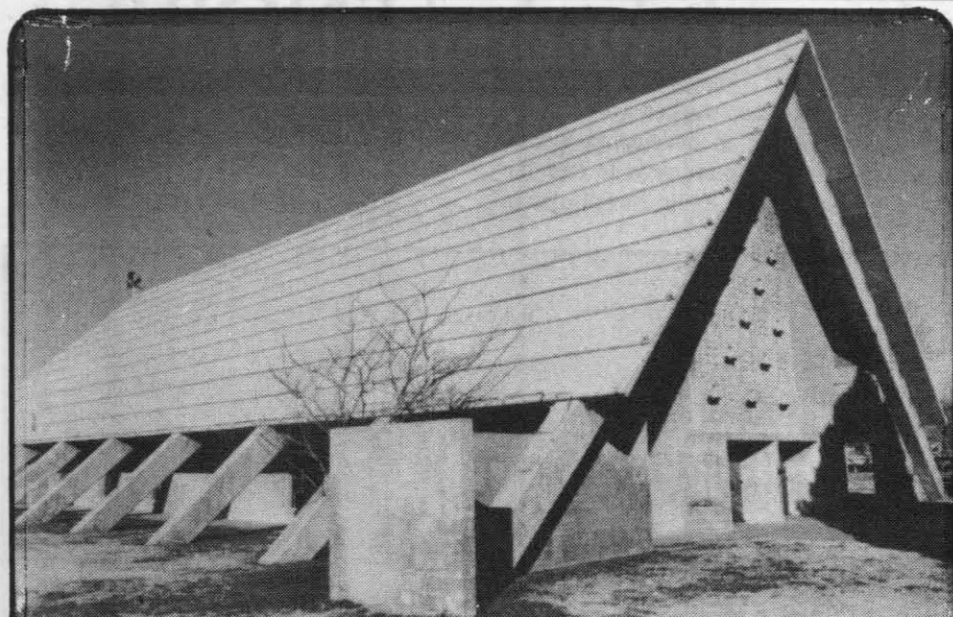
Western Division, Naval Facilities Engineering Command (WESTNAVFACENGCOM) has completed its review of proposed civilian rental rate increases. Revised rates were initially received by the Center last September for implementation on February 1, 1985.

As reported in the Rocketeer on December 14, due to the size of some increases the Center requested that

WESTNAVFACENGCOM review the rental comparison study done by its contractor. As a result some minor downward adjustments were made by WESTNAVFACENGCOM and the implementation date delayed to July 1, 1985.

Active duty military personnel assigned to public quarters are not affected by this change in rental charges.

(See chart on Page 2)



Divine Services

PROTESTANT

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

ROMAN CATHOLIC

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

JEWISH

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

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

Employee in the Spotlight

Joanna Wojciehowski enjoys unusual benefits from Navy service

The three years that Joanna Wojciehowski, a computer specialist in the Personnel Automatic Data Systems Group, spent in the Navy dramatically changed her life.

First, thanks to joining the Navy, she left the town of Inkster, Michigan, in which she grew up, and was sent to Washington, D.C. and, eventually, to San Diego.

Second, she went to data processing "A" school, decided that she like data processing, eventually became a computer operator — and, years after becoming a civilian, a computer programmer.

And third, (and vital), she met Jim Wojciehowski and married him the day after she was separated from the service.

He remained in the Navy, while she joined the reserves. "I had the best of both worlds that way," she says, "because I still stayed in touch with the Navy but also had the advantages of civilian life."

Her reserve career didn't end until July 1983 when she found that trying to keep up with her two children, Jonathan Edward (now 2) and Jennifer Lynn (now 9) plus her job in the Personnel Department left very little time or energy to continue her activities with NWC's Reserve Support Unit 0176.

The years in between the time that she completed her active duty service and the time that finally hung up her uniform for

Civilian shelter rental rates

Type	Shelter	Rent	Utilities	Total
SOQ (4)		779.80	194.10	993.90
SSQ (3)		519.60	218.10	737.70
SSQ Saratoga (3)		431.10	212.70	643.80
Sierra (4)		606.90	157.80	764.70
Coso (3)		553.20	146.10	699.30
Panamint (4)		530.70	161.10	691.80
Panamint (3)		483.00	144.30	627.30
JOQ (Rear Terrace) (3)		494.40	147.30	641.70
JOQ (Front Terrace) (3)		447.00	142.80	589.80
JOQ (Front Terrace) 1 Bath (3)		396.00	142.80	538.80
JOQ (Front Terrace) (2)		411.60	118.70	529.80
JOQ (Rear Terrace) (2)		370.20	115.20	485.40
MOQ (3)		492.60	170.10	662.70
Hill Duplex (3)		407.40	129.30	536.70
Hill Duplex (2)		311.10	123.00	434.10
Wasp Circle (3)		383.10	169.50	552.60
Joshua (4)		453.00	147.90	600.90
Yucca (3) (Convertible)		457.50	139.20	596.70
Tamarisk (3) (Convertible)		416.10	133.80	549.90
Juniper (3)		412.20	128.40	540.60
Old Duplex (3)		429.90	140.70	570.60
Old Duplex (2) (Dining Addition)		338.70	117.90	456.60
Old Duplex (2)		308.70	110.70	419.40
Old Duplex (1)		250.50	83.40	333.90
Motel Apts (1) With Yard Maintenance		268.80	56.40	325.20
Motel Apts (0) With Yard Maintenance		214.20	48.40	262.80
Motel Apartment (1) Without		255.30	56.40	311.70
Motel Apartment (0) Without		200.70	48.40	249.30
Old Apartment (2)		249.60	88.80	338.40
Old Apartment (1)		222.30	59.40	281.70

Vehicle registration law changes

An important law change affects the registration of any person's vehicles brought in from out-of-State, says California Department of Motor Vehicles Director George E. Meese.

Except for special provisions for armed forces personnel, a person who accepts gainful employment or establishes residence here must obtain California license plates within twenty days of such action. The new law, which is effective July 1, 1985, applies to anyone already in the State as well as new arrivals.

Nonresident military personnel are exempt from this rule, providing they maintain residence in another State and carry financial liability insurance, and provided the vehicle is not a pickup truck or other "commercial" type vehicle used in a business.

In addition, a vehicle used in California more than in any other State will have to be registered here.

The current California law respecting driver licenses is even stricter. It requires that a person apply for a California driver license within ten days of establishing residency or accepting a job here.

Soccer...

(Continued from Page 6)

Rogues 7, Sounders 0

A lopsided contest that saw Shawn Hamilton notch four goals in the win. Kelly Richison and Lance Moore had single goals along with Mike Strathdee. Alan Stevens and Ryan Christiansen led the defense. Brad Bays was credited with a solid offensive show in the loss. Jeff Hannon led the defense.

Surf 7, Tornados 2

Melvin Perez, assisted by Ted Mechtenberg and Mechtenburg himself scored the only goals for the Tornados. The winners got two goals each from Allan Bullard and Joe Nelson to key the win. Brian Perez, James Ball and Danny Moldenhauer had one goal each in the easy Surf victory on Saturday.

Division 4 Lasers 2, Hotspurs 1

With Eric Blowers scoring twice, the Lasers were easy winners against the Hotspurs. A well played game found Clint Coffee keying the defense in the win while making an assist; there was no Hotspur report.

Bandits 4, Hotspurs 3

No results from the winners. Ivan Chirinos, Peter Martinez and Danny Hobson scored for the Hotspurs in the close, hard-fought Division 4 contest.

Lasers 3, Bandits 1

Eric Blowers provided three goals while Ken Ratcliff and David Vega provided a strong defense as the Lasers took the game. Todd Henderson and Brian Bartels had assists in the easy win. No report from Bandits.

Fishing fair in Sierra lakes

Anglers after trout in the High Sierra have found the fishing only fair in the past week. While a three-pound rainbow trout was taken at Lake Sabrina on worms, others fishing the lake found the lowered water level hampering their efforts.

At South Lake fishing was good on the back side of the lake with worms, the most popular bait. The creek flowing out has also started to pick up.

Rock Creek Lake is now ice free, but fishing is only fair because the water is still so cold.

Boaters are finding the fishing slow at Convict Lake except near the marina picnic grounds using worms or small marshmallows.

Twin Lakes in Mammoth are slow. Salmon eggs or nightcrawlers. Gull Lake in the June Lake Loop continues to be the hot spot this season. Lots of two pounders and one five-pound rainbow were caught over the weekend. Red salmon eggs and cheese bait bring the best results.

Silver Lake is producing good catches of brown trout on cheese, eggs and worms. At Grant Lake marshmallows with worms or inflated nightcrawlers produce fish as does trolling.

Bridgeport area finds Lower Twin giving up lots of limits of small, pan-size planters on eggs and worms.

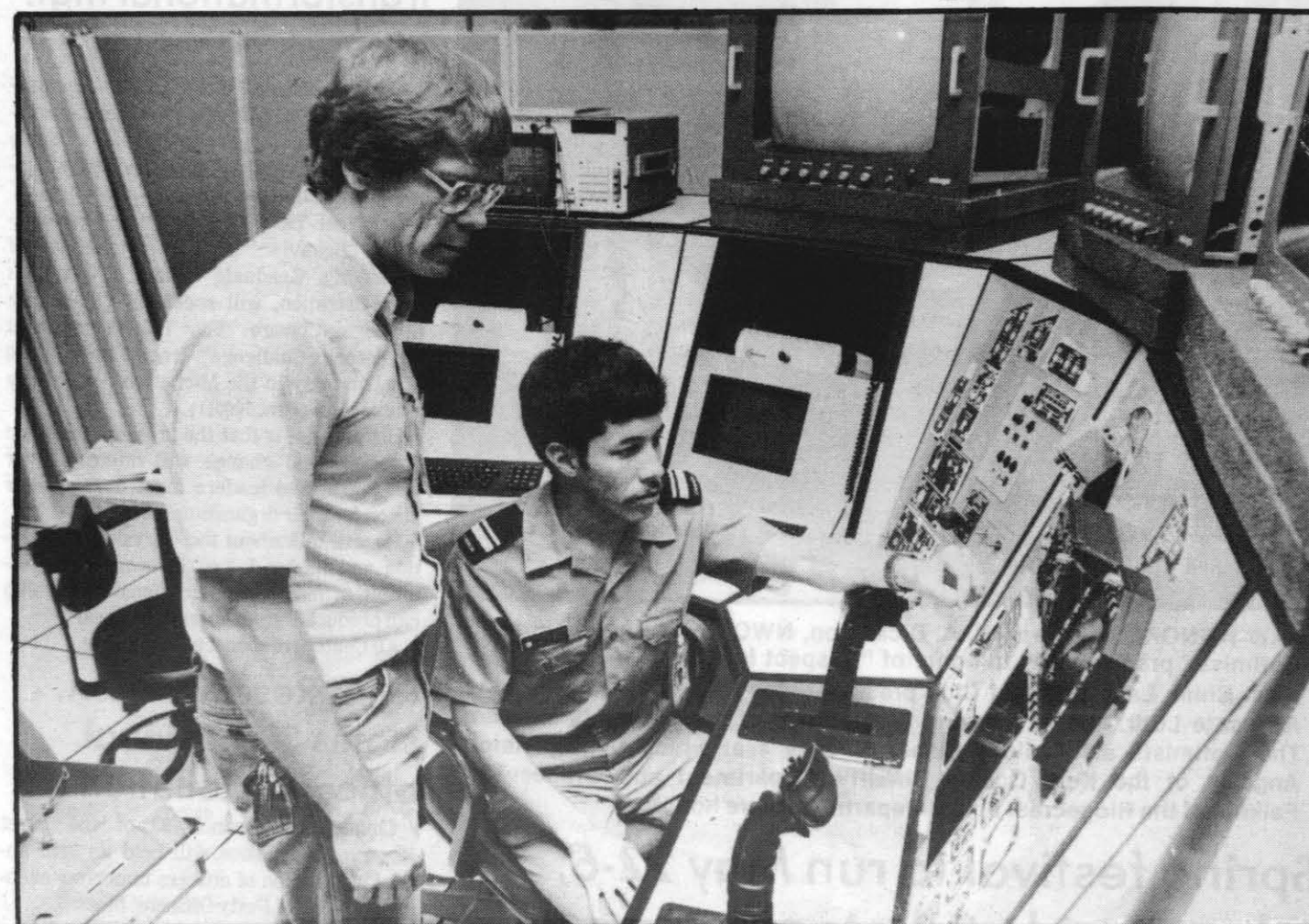
June Lake Loop merchants are holding a \$6,000 Fish Contest. Fifty marked trout will be stocked in each of the lakes in the loop. Anyone catching one can bring it to the marina or Ernie's Bait and Tackle to be redeemed for certificates good at loop businesses. Each month those certificates will be placed in a barrel and a \$1,000 winner will be drawn.

Jackrabbit season

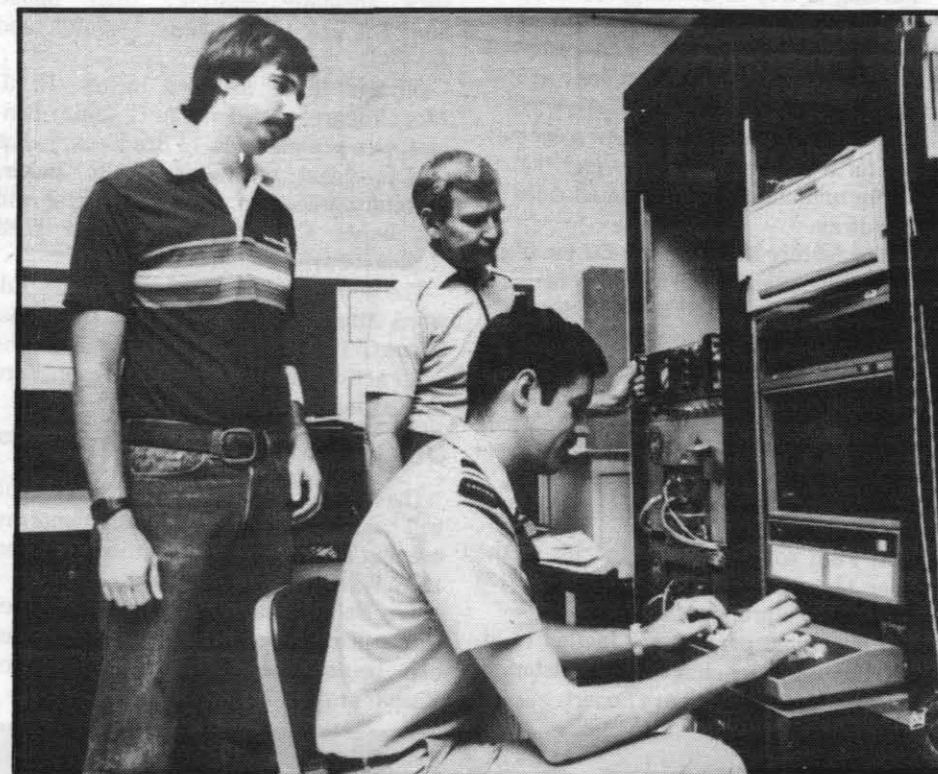
Hunters are in the midst of a good season for shooting jackrabbits and squirrels. The jacks now are young and tasty because the new crop is about half grown and tender.

Department of Fish and Game wardens, however, warn hunters to be careful when they shoot — it's easy to confuse the white patch of tail on a young jack and on a cottontail — and cottontails are definitely not in season.

Canadian Detachment learning here...



SIMULATION — Lt. (CF) Stephane Germain are working with NWC counterparts in the Aircraft Weapons Integration Department as they prepare to operate their own CF-18 facility at Cold Lake, Alberta.



COMPUTER CHECK — Capt. (CF) Ed Vos works at a terminal in the Weapons Integration Branch as Glenn Cross (left) of Code 3144 and Dick Tolkmitt of Computer Technology Associates look on.



(Continued from Page 1)

dian Forces on this important project. As LCol. Daws pointed out, "most of the CF-18 support effort will be done by military officers rather than by civilians, and as such, our liaison staff at NWC will also be military."

The contingent, expected to grow to a high of 21 persons this summer, is the largest group of Canadian Forces personnel yet assigned to the Naval Weapons Center, and the group will remain here for a longer period than have any others. "Our rapport with U.S. Navy people, both civilian and military has been excellent" LCol. Daws commented. "The training programs are proceeding extremely well, as have the planning and management functions related to our Foreign Military Case. These things, together with our new building have made us feel right at home. We look forward to a long and productive relationship with the Navy here at China Lake."

PHOTOS BY PH2 RICK MOORE

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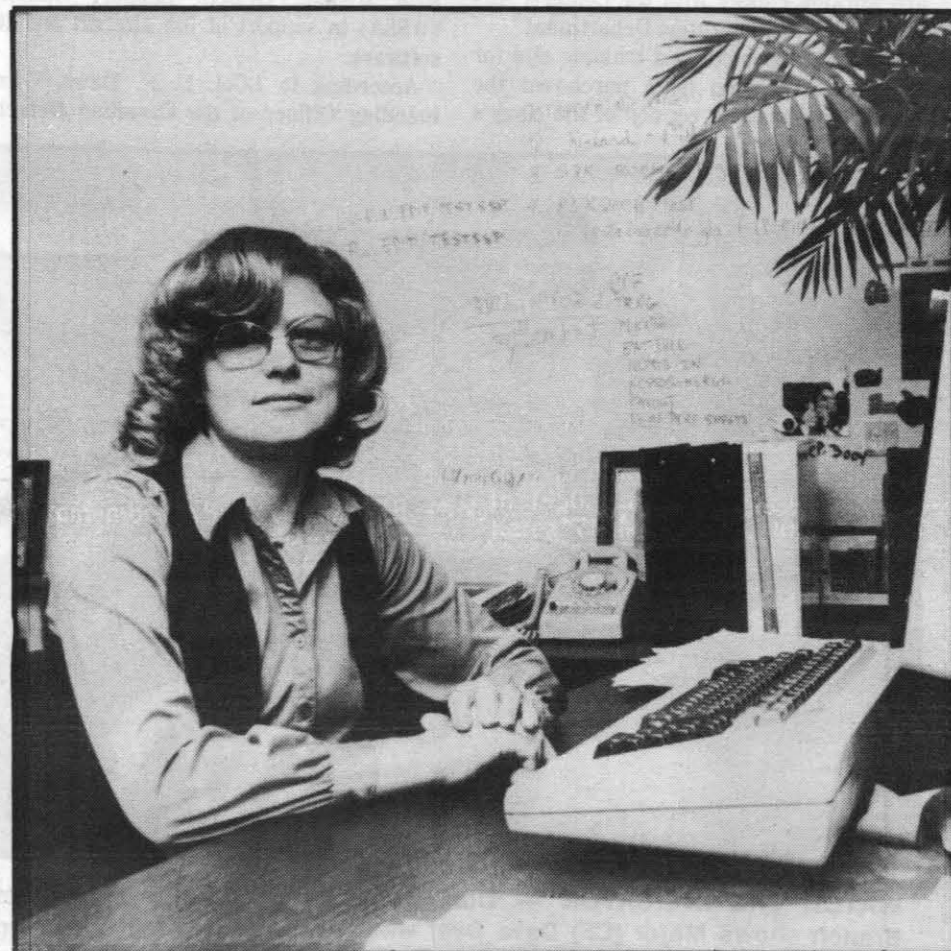
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ENJOYS HER JOB — Joanna Wojciehowski has had a steady progression of increasing complexity in the data processing field, which she entered while in the Navy. — Photo by PH2 Rick Moore

Youth soccer season nearing completion at NWC

NWC's Youth Soccer season is down to one final week of competition of all four divisions. An awards picnic is planned for tomorrow to mark the end of the 1985 season.

Division 1
Coyotes 6, Rowdies 0
Bill Goodwin's three goals were more than enough for the Coyotes as they romped past the Rowdies. Joe Mechtenberg added two more scores and Ian Lewis added the final goal. Steve Shoemaker and Shelby Hansen led the Rowdies on the attack and Adam Summer keyed the defensive effort.

Express 2, Apollos 1
Vasken and Avak Haroutunian notched one goal each as they led the Express to the win. Timothy Viers led the defense that

held the Apollos short. John Hopeck got the lone Apollo goal on a assist by Tony Cordell. Phillip Nave keyed the defense in the loss.

Cobras 1, Fury 0
Mike Hobson and Josh Harmony played the best defense of the season as the Cobras won a thriller. Hobson also scored the only goal of the game in a fine all around performance. Jeff Brown was the top offensive player in the defeat and Chris Peterson led the defenders for the Fury squad.

Chiefs 1, Owls 0
The only goal in this defensive battle came when a kick by Christian Robertson was blocked and the return kick by the Owls went into the goal for a score for the Chiefs. Brandon Rivera and Jesse Betnes

also were credited with good play. John Hutmacher and Eric Mattick led the Owls. They got the shots on goal but just couldn't put them in.

Roadrunners 3, Eagles 0
The fourth shutout of the day in the division found Chris Thornberry notching a pair of goals and Samuel Stevens the final point for the winners. Chris Kajiwara led the winning defense. All the scoring came in the first half.

Division 2
Sockets 2, Cosmos 0
Jerry Green assisted Damon Kelling and Tofi Tuipala as the Sockets beat the Cosmos. Good, crisp passing was the key to victory. The Cosmos were keyed on defense by Quannah Driver, Freddy Crouse and Andy Lopez. Their offensive effort was led by Michael Blurton and Howard Gamble.

Drillers 2, Strikers 1
Goals by Patrick Bindt and Matthew Thatchers were what the Drillers needed. The close contest found Carol Brown and Garrett Katzenstein leading the winning defense. Mike Oliver got the lone goal for the Strikers as the Drillers came from behind to win. James Auld played a strong

defensive game for the Strikers.

Timbers 4, Sting 1
The Timbers got a pair of goals from Dwight Mason to go with two goals by Chad Shedlock in the 4-1 victory. Kenny Carr and Chris Blevens were defensive standouts. Beau Arnold, with an assist from Brendon Weimholt had the only score for the Sting.

Aztecs 5, Lancers 1
Mike Matson and Scott Hansen ripped the Lancers for a pair of goals each as the Aztecs rolled. Jonathan Rae added a final goal. Chad Killinger led the defenders. Steven Sticht got the goal for the Lancers with an assist from Doug Harris. Jamie Scholl was the top defensive player in the loss.

Division 3
Diplomats 4, Kicks 1
Behind two goals from Derek Lindsey and single goals from John Johnson and Alex Valdivia, the Diplomats were easy winners. Glen Iwamura keyed the defense and Jeff Bradley had a fine game as goalies for the winners. Jason Rainwater got the lone Kicks' goal. Matt House and Nathan Walters led the defense.

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Sports

Little League opens T-Ball new season

China Lake Little League opened its T-Ball season last week, a week after other divisions started 1985 action.

In the T-Ball games the Twins beat the Giants 28-10 while the Angels nipped the Braves 25-24 and the Expos ripped the Twins 23-14. Also, the Braves clobbered the A's 23-12.

In Minor Division play the White Sox tripped the Padres 18-13 with walks dominating the contest. Also the Pirates hammered the Royals 22-9 to remain undefeated after two weeks of play.

In a easy win, the Tigers rolled past the Red Sox 35-6 behind a 13-hit 17-walk attack. Mike Moffit was the winning pitcher.

The Tigers also beat the Dodgers 9-6 while the Dodgers stopped the Yankees in an earlier game.

Because of Little League action on China Lake Diamonds, East Inyokern Road is closed between Richmond Road and Dibb Road each evening games are played. Motorists who use the road should plan an alternate route for evenings this baseball season.

Major games are set on Tuesday, Thursday and Friday nights while Minors play Tuesdays and Thursdays and T-Ball Mondays and Fridays at NWC and Inyokern diamonds.

Young Scorps win three in Mexico

Winning all three games on a weekend trip to Rosarita Beach, Mexico, the Under 15 Ridgecrest Scorpion Soccer Club returned home to play a doubleheader on May 12.

The Scorpions stopped Rosarita Beach 3-0, 3-2 and 4-2 in the three-game series May 3 and 4. Jim Caves was named Most Valuable Player for the series.

Also lending a hand in the sweep were Brian Bonner, Matt Ziegler and Scott Hamilton.

Against San Bernardino's Cosmos on Saturday, the Scorpions were blanked 5-0 despite excellent play from Bob Buege and Matt Mechtenberg.

The second game of the day found the Scorpions bowing to Fontana 3-1. Caves had the only goal of the game for the Scorpion squad.

Tomorrow the Scorpions hit the road for a clash with the Kickers of Rowland Heights.



GOAL! Joe Gregory kicks the ball past Rialto's goalie during first half action of Saturday's easy soccer win for the under 19 Scorpion Soccer Club. The 8-0 victory moved the Scorps into third place (for now at least) in

Inland Empire Youth Soccer League standings. The Scorps go on the road to begin the League Cup Tournament action tomorrow to wrap up the 1985 spring season. — Photo by Steve Boster

Anglers find Lake Isabella a hot spot

By Mike Vradenberg
Anglers have been real productive fishing in the south end of Lake Isabella for bass, crappie, bluegill, and catfish. Bass anglers are fishing along the rocky shores and around the submerged trees and fences in Southlake, Joughin Cove, Gautche Point, and Lime Dyke.

Nightcrawlers, rubberworms, and plugs are the big producers. Crappie fishing is red hot! Anglers are productive trolling plugs six to ten feet deep 100 feet offshore.

Shore fishermen are scoring, too, they are using worms, jigs, sassy shads, and

spinners. Crappie are being caught at Hanning Flat, Southlake, and in Brown's Cove.

Bluegill are being caught in the same areas with the crappie and bass. Anglers fishing for bluegill are most successful with worms.

Lake Isabella is open to night fishing, and many anglers fishing for catfish prefer the late hours. Catfish have bad eyesight, and to locate their food they must smell and use the sensors in their whiskers.

Baits with a strong odor work best to catch channel and white catfish. Most anglers use clams and mackerel, but

nightcrawlers and anchovies are also good.

Fishermen start catching channel and white catfish in the late afternoon, and the fishing remains good until early morning. Catfishing is best in Stine Cove, Hanning Flat, Southlake, Brown's Cove, Joughin Cove, and French Gulch.

Brown bullhead or yellow cat is a smaller variety, and only weighs two pounds at maturity. The yellow cat spawns in shallow water, and is caught throughout the day.

Yellow cats are most plentiful in Joughin Cove, and Brown's Cove. Redworms is the most commonly used bait.

CPOs, Bears capture softball loop wins

Military League softball action found the Hornets falling to the CPO squad, 20-5. The CPOs ripped Hornet pitching for 22 hits including a four-for-four performance from Barry Hileman and three hits, including a home run from Hill.

P. Barnes, P. Hagen and F. Herman collected two hits each in the loss. The CPOs gave up 12 hits in the victory, their first of the season against two losses.

Bears 16, VX-5 13
The only other military loop game reported found the Bears nipping VX-5.

Jean Bormett allowed 19 hits, but walked only one batter in the Bear win. Hensley collected four hits while Myers, Palmer and Junes had three each, including a home run off the bat of Palmer.

Glenn's five-for-five game paced VX-5's effort that fell short despite a two-run rally in the last inning.

Team	Won	Lost
Doc's	2	0
VX-5	2	1
Bears	2	1
Devils	1	1
Outlaws	1	1

CPO 1 2
NWCO's 0 1
Hornets 0 0

Half-Marathon

The Second Annual Desert Classic Half-Marathon will be held at Sorensen Field aboard the U.S. Marine Corps Logistics Base, Barstow, May 18.

The event is open to all servicemembers and civilians. Registration fee is \$5. For more information, contact Ssgt. Bob Dion at commercial (619) 577-6644 or Autovon 282-6644.



The Skipper Sez...

QUESTION

Civilian Employee — I don't have a complaint as such, but I would like to get some clarification on something. I'm a civilian and a member of the Gym facilities itself. In the past we had out-of-town guests (before January). They'd been able to come in and use the facilities by paying their daily fee without any problems. Last week we had my brother-in-law come into town and he likes to play basketball. So he went down to the gym to play basketball and was told he can't come in unless he had a sponsor. My question is: is there a set of policies governing the civilian use of the gym facilities available? If so, I'd like to have a copy. I asked the people down at the gym and they told me there was no such set of policies available. I'd just like to get some clarification on that from you. Thank you.

ANSWER

NAVWPNCENINST 4069.2 authorizes limited private citizen privileges for use of recreation facilities and programs. A ceiling on the number of private citizens allowed to purchase annual athletic association membership is also established. All athletic association members, active duty military, and DOD civilians are authorized to sponsor guests who are charged the established daily fee. Since your brother-in-law was neither a dues-paying AA member and was not personally sponsored by an authorized user of facilities, he was not allowed to use the facility.

QUESTION

Civilian Employee — I'd like to know if it would be possible to get another line to PSD, or, possibly, another individual to answer phones there. When we have to make reservations for official travel for our bosses, sometimes we can't get through for days on end. Since I'm located in a building out on the ranges and since it's not very cost effective for me to take a taxi down mainline in order to make travel arrangements, it's not practical to have to wait until I connect with PSD. I've been trying to get through now for a day and a half. I'm not getting through to them; all I'm getting is a busy signal.

ANSWER

We regret the problems NWC personnel have experienced contacting the Personnel Support Activity Detachment (PSD). I recently requested a study which confirmed these problems. On completion of the study I offered personnel and additional telephone lines to PSD. To date, PSD has hired one more employee and requested a four-line rotary system with two additional telephone lines. This new system should have been installed by the end of April. These two actions should result in some immediate improvement. PSD is also requesting additional billets from the Personnel Support Activity, Long Beach due to increases in workload over the last several years. I have requested that a follow-up study be performed in June to determine whether the services by PSD have improved.

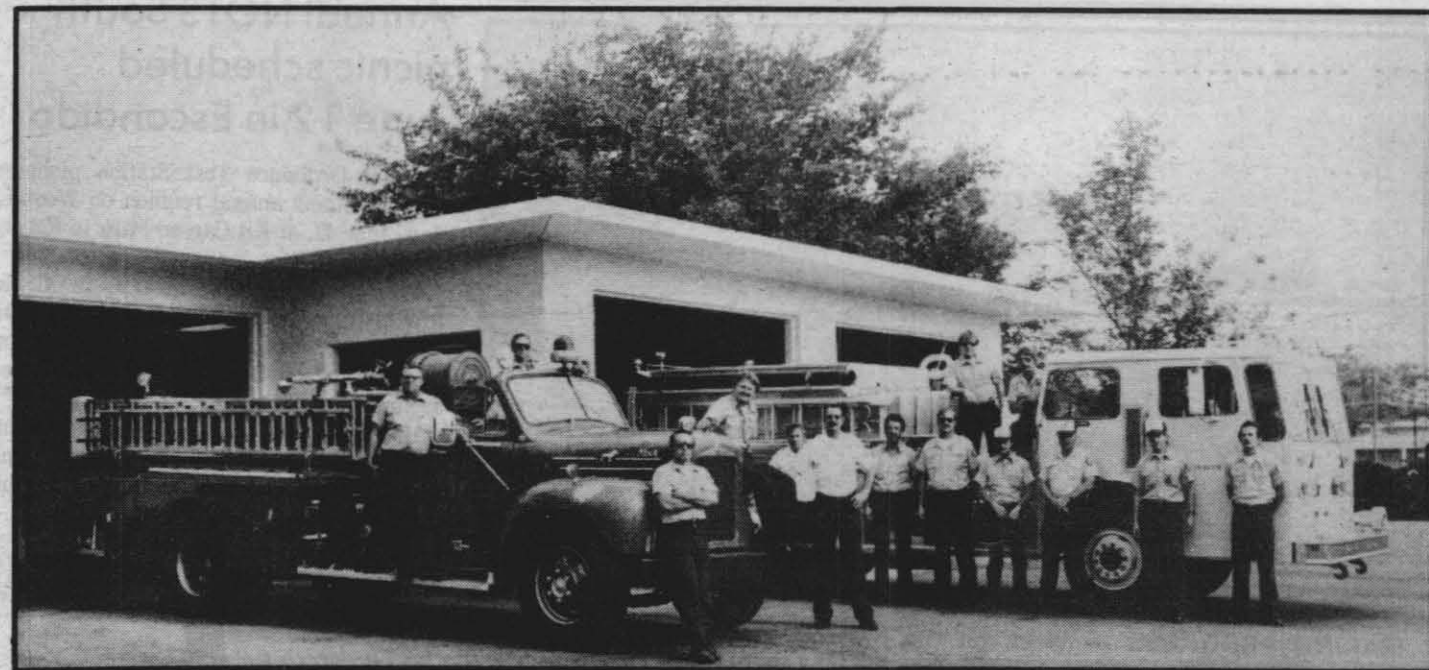
All China Lakens, including military personnel, civilian employees, and their dependents are invited to submit questions to this column. Such queries must be in good taste and pertain to matters of interest to a large segment of the China Lake community. Answers to these questions are directly from Capt.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

Passes required to use Mini-Mart

As of April 15, Naval Weapons Center employees and their authorized dependents residing aboard the Center are allowed to shop at the Navy Exchange Mini-Mart. Center resident dependents who wish to use the Mini-Mart are requested to obtain community passes so that identification may be facilitated.

The Badge and Registration Section (Code 24311) of the Safety and Security

Department will be issuing dependent community passes, bearing the "T" designator, to Center residents on Thursdays and Fridays. The applicant must bring a Housing Assignment Authorization form (NAVWPNCEN 1101/7) when applying for this pass. Employees need not accompany their dependents, provided the dependent has the required form.



THE OLD AND THE NEW — Firefighters from Station One compare their 1956 red Mack pumper with one of their two new 1985 Walters triple combination pumpers purchased under the Capital Investment Program. The new pumper is capable of pouring 1,000

gallons per minute on fires. The Fire Division hopes to be able to keep the elderly vehicle (classified as an antique) for use as a demonstration vehicle for public events and for fire prevention activities such as demonstrations to schools. — Photo by PH2 Rick Moore



WINNERS ALL — Displaying the plaques denoting their EEO awards are (l. to r.), Mary Moore, EEO Program Person; Bill Underwood, Supervisor of the Year; Columbia Nelson, Center Employee, representing principles of EEO; and Dr. Edward Kutchma, head of the Aircraft Weapons Integration Department, with the department's award.

With many outstanding nominees, EEO award winners hard to pick

The Aircraft Weapons Integration Department received accolades at the annual EEO Awards luncheon last week as the department that has accomplished the most towards attaining the EEO goals set by Capt. K. A. Dickerson, NWC Commander, and Burrell Hays, NWC Technical Director.

Other awards presented went to Bill Underwood, Code 623, as the Supervisor of the Year; Mary Moore, EEO Program Leader; and Columbia Nelson, employee representing EEO in action.

The nominees were so outstanding, according to Gerry Schiefer, Deputy Technical Director, who joined with Capt. Paul Stephenson, Chief Staff Officer, in presenting the awards, that the choice of winner was extremely difficult.

Hardest to decide, he noted, was which department should be considered to have come closest to meeting the goals set out in the EEO initiatives proposed last summer. The four top departments — Aircraft Weapons Integration, Fuze and Sensors, Personnel, and Engineering, all had outstanding records.

Equally, it was exceptionally difficult to select the top supervisors from the group nominated because all of these were outstanding in playing a supportive role to those in their organization, establishing career paths, and providing training for their personnel.

"It's exciting to have a tough time trying to decide who's best," Schiefer noted.

Work with handicapped personnel won the awards both for Ms. Nelson and Mrs. Moore. Ms. Nelson helped determine whether handicapped persons could handle a couple of jobs in her department, and assisted in getting such people placed. Ms. Moore, as head of the Handicapped Employment Program, has succeeded in bringing the total percentage of severely

handicapped employed on board above both Navy and government norms. She, in addition, has also done an outstanding job in her role as Federal Women's Program Manager, Schiefer said.

Prior to the presentation of awards, Beth Perrine, Deputy EEO Officer for the Center, pointed out that the Center has taken initiative in integrating EEO concepts into the day-to-day personnel work.

"In the past, if there was an EEO-related problem," Mrs. Perrine said, "it was EEO's problem. Now it's everyone's problem — and that makes a difference in how much can be accomplished and how effectively problems can be resolved."

Significant results from the EEO initiatives proposed a year ago include adding new colleges for targeted recruitment and an increase in targeted placements by the Recruitment and EEO Offices.

The Technical Director's EEO Checklist for performance planning was issued to all supervisors and its implementation has been added to the SES objectives for Center managers.

Curtis Bryan, Aerosystems Department Head, who chairs the Center's EEO Committee, told the audience at the awards luncheon that the EEO Committee meets on the last Tuesday of each month and that the meetings are open to all observers. "Your points of view always welcome," he said.

Timecards due early next week because of Memorial holiday

All personnel who are responsible for the submission of timecards are reminded that because of the Monday, May 27, Memorial Day holiday, timecards for the regular workweek ending May 25 must be turned in by 4:30 p.m. on Tuesday, May 21.

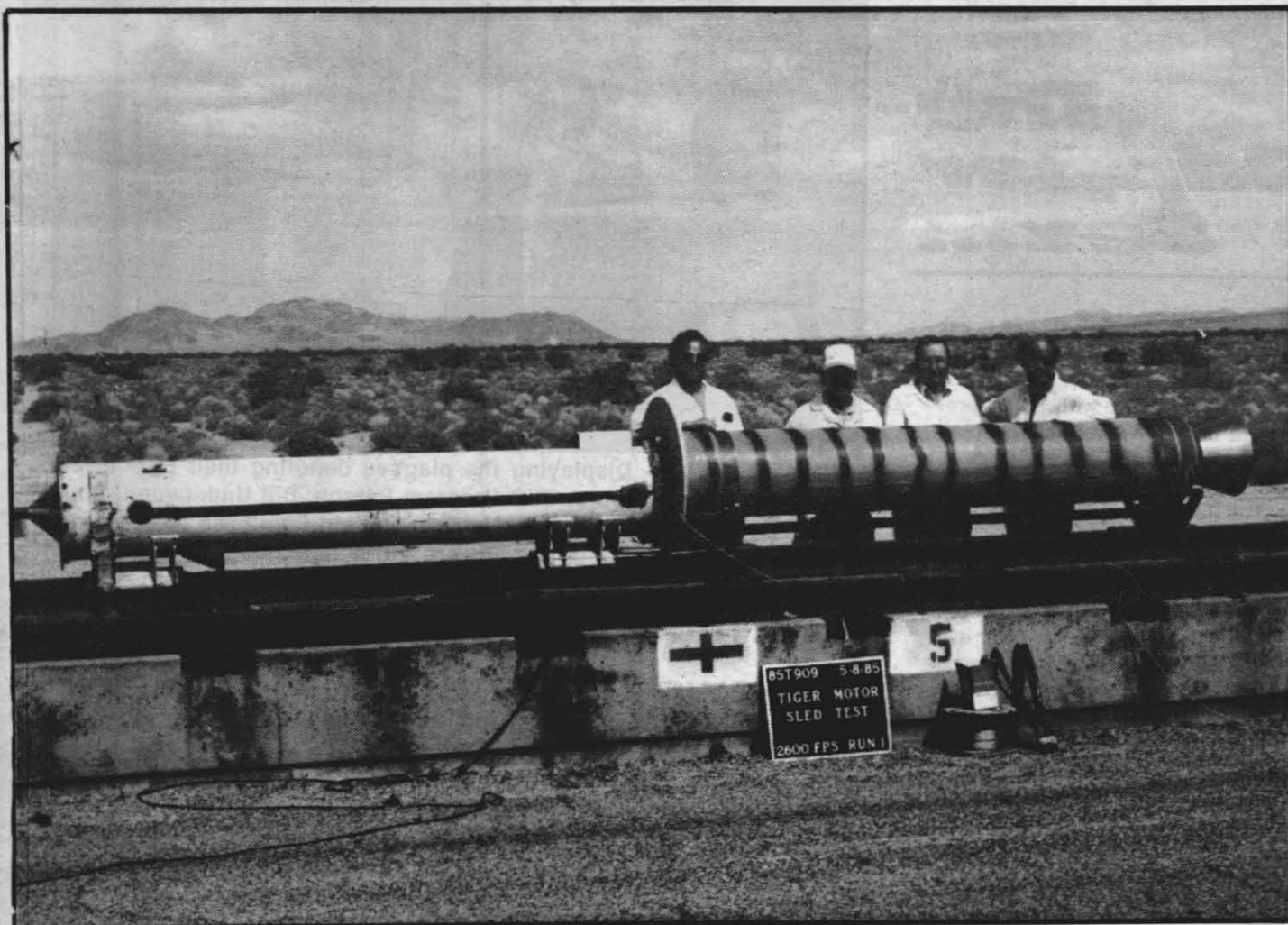
This is necessary in order to meet the normal payday of May 31. No timecards are to be held out, since failure to provide the Payroll Office with an accurate timecard by the May 21 deadline may result in a delay in pay for employees.

In order to meet the May 21 deadline, it will be necessary for departments to project or estimate what will occur on Wednesday, Thursday, Friday and Saturday, and submit the timecard by 4:30 p.m. on Tuesday.

On Wednesday afternoon, if it is discovered that the timecard projections are in error as submitted, the errors can be corrected by submitting a corrected timecard annotated as such, between 11 a.m. and 3:30 p.m.

Errors discovered after May 22 should be corrected by sending a memorandum to the Payroll Office, Code 08641, the following week.

Any overtime after 4:30 p.m. Tuesday, May 21, through midnight, May 25, should be submitted on a supplemental timecard for payment the subsequent pay period.



Tiger motor. . .

(Continued from Page 1)
static firing at the Range Department's Skytop facility were John Beckendorf and David Rhodes of the Baker-4 shop.

When the Tiger motor had exceeded requirements in two static firings, a dynamic test was arranged at SNORT to determine whether the motor could tolerate extremely high accelerations.

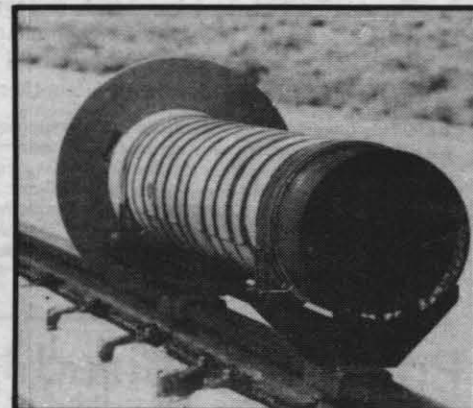
No existing SNORT sleds could withstand the 140,000-pound thrust and accelerations created by the Tiger motor. As a consequence, Jim Lawson of SNORT modified the design of an existing pusher/forebody sled combination. Rhodes, Beckendorf and Ron Foley built a rocket sled combination capable of withstanding acceleration in excess of 100 Gs. The anticipated acceleration was in excess of 80Gs; the trackside velocity measuring system confirmed that peak G force was more than 83 Gs during the test.

Range engineer Kevin McDonald coordinated final preparations. Between 30 and 40 observers from NWC, Sandia Laboratories, and the White Sands Missile Proving Ground crowded into the observation area in the SNORT building to witness the test.

Charles Lamson provided the countdown. As he said "Ignition," a streak of light was followed by the sound of the blast wave from motor ignition.

The Tiger motor will next be used to celebrate Hugh McCoy's High Speed Sled in a qualification program in late June.

The ever-increasing intercept velocity of defensive missiles requires the new High Speed Sled. The motor was primarily developed to accelerate free-flight test items. Testing at the G-4 terminal ballistics track overlooking Airport Lake, the Tiger motor is expected to launch a 300-pound test item at 4,000 feet per second out over the lake bed.



THE REMAINS — The burned out Tiger motor sits on a rail at SNORT. The propellant is so efficient that the stripes painted on the motor casing are still intact; the motor is cool enough after firing so that it would be possible to put a hand on the surface without getting burned.

Annual NOTS South picnic scheduled June 12 in Escondido

Naval Ordnance Test Station personnel will hold their annual reunion on Wednesday, June 12, at Kit Carson Park in Escondido.

The no-host picnic begins at 2 p.m. All old timers from the days when the establishment was NOTS as well as friends and co-workers from the Naval Weapons Center are invited to attend.

Heading the committee planning this annual event are Haskel (Hack) and Jane Wilson; he is a former Technical Director of NWC.

Looking For Equipment?

Call the Equipment Locator Service (Code 02A22) at ext. 2101. We're here to satisfy your equipment needs!

MAKING PROGRESS — Work on the parking lots in the Michelson Laboratory complex area is proceeding rapidly, with three new parking lots expected to be ready for use within the next couple of weeks. The new lots are being readied in response to a spate of requests from those working in the area who have been having difficulty finding a place for their cars while at work. — Photo by PH2 Rick Moore

READY TO TEST — The forebody sled is attached to the Tiger rocket motor just prior to the recent test. Back of the motor are four of the men responsible for the success of the operation: (l. to r.), James Lawson, Norman Zwierzchowski, John Richards, and Dan Krausman.

Don't make NWC an easy mark, say NIS

"Don't make NWC an easy mark," says Naval Investigative Service Agent Fred Booth, "and don't innocently get yourself into trouble, either. The best way to handle the very real problems of fraud, waste and abuse is to become aware of the potential. And, equally, to become aware of what may be a conflict of interest that can cause you problems."

To meet both of these requirements, he has an interactive presentation that he's willing to give to groups of from 10 to 20 Center military or civilian personnel (no contractors).

The presentation includes five vignettes on videotape of situations in which personnel can find themselves. The tape is then stopped and Booth expands on the situations portrayed and answers any questions that members of the audience may have.

"I like to keep the groups under 20," he says, "because that way there's more opportunity to ask questions on the part of the audience and to discuss freely any points that come up."

This briefing is required for Navy personnel in procurement, but is equally of great value to anyone who has any dealings with contractors.

Making conflict of interest problems difficult here, he notes, is that this is a small community in which there are many social and other overlaps between government personnel and those in the contracting field. This sort of situation creates a lot of opportunity for appearances of conflict of interest that may not actually be the case.

For those in doubt whether some situation may be a conflict of interest, Booth advises personnel to check with Dennis Valentine, the Center's counsel, or with LCdr. Mike Kelly, Staff Judge Advocate. Such appearance of conflict might arise if, for instance, the spouse of a Center employee is working for a contractor to the Center whose operation is in the same field as the employee.

Even the perception of a conflict may be a violation of the law, says Booth, so it's judicious for NWC personnel to be aware of what constitutes conflict of interest.

Booth also says that he feels that he's been more than paying for his own salary out of money recovered in cases of fraud

that he's had called to his attention since he's on board.

"It's most satisfying to save the government more money than I'm paid," he notes. "It makes me feel that I'm doing a worthwhile job."

He says that many of the cases of fraud have been called to the attention of NIS by those working in the same area where the fraud is occurring.

"We're not trying to make snitches of anyone," Booth asserts, "but knowledgeable people who note that something doesn't seem to be right turn out to be the best leads that we have of someone trying to defraud the taxpayer. And fraud, waste and abuse basically does just that — it takes money from the pocket of each taxpayer."

If anyone has any questions about any possible fraud situation, that person can phone Booth at NWC ext. 2063 and discuss it with him. Calls can be made anonymously, he says, because generally in any fraud situation, there's a paper trail left that can be followed by an investigator.

The same phone number will also reach Booth to make arrangements for his making the presentation about fraud to a group.

Police reports . . .

On two occasions during the week China Lake police assisted Ridgecrest officers, resulting in two individuals being transported to the jail in town and being booked. In one instance, a military man was arrested because he was suspected of a rape occurring earlier in the week. The other individual was served a warrant, arrested, and transported to jail.

The weekend was not a good one for unlicensed drivers. Four were stopped on traffic stops, found to be unlicensed, cited and released.

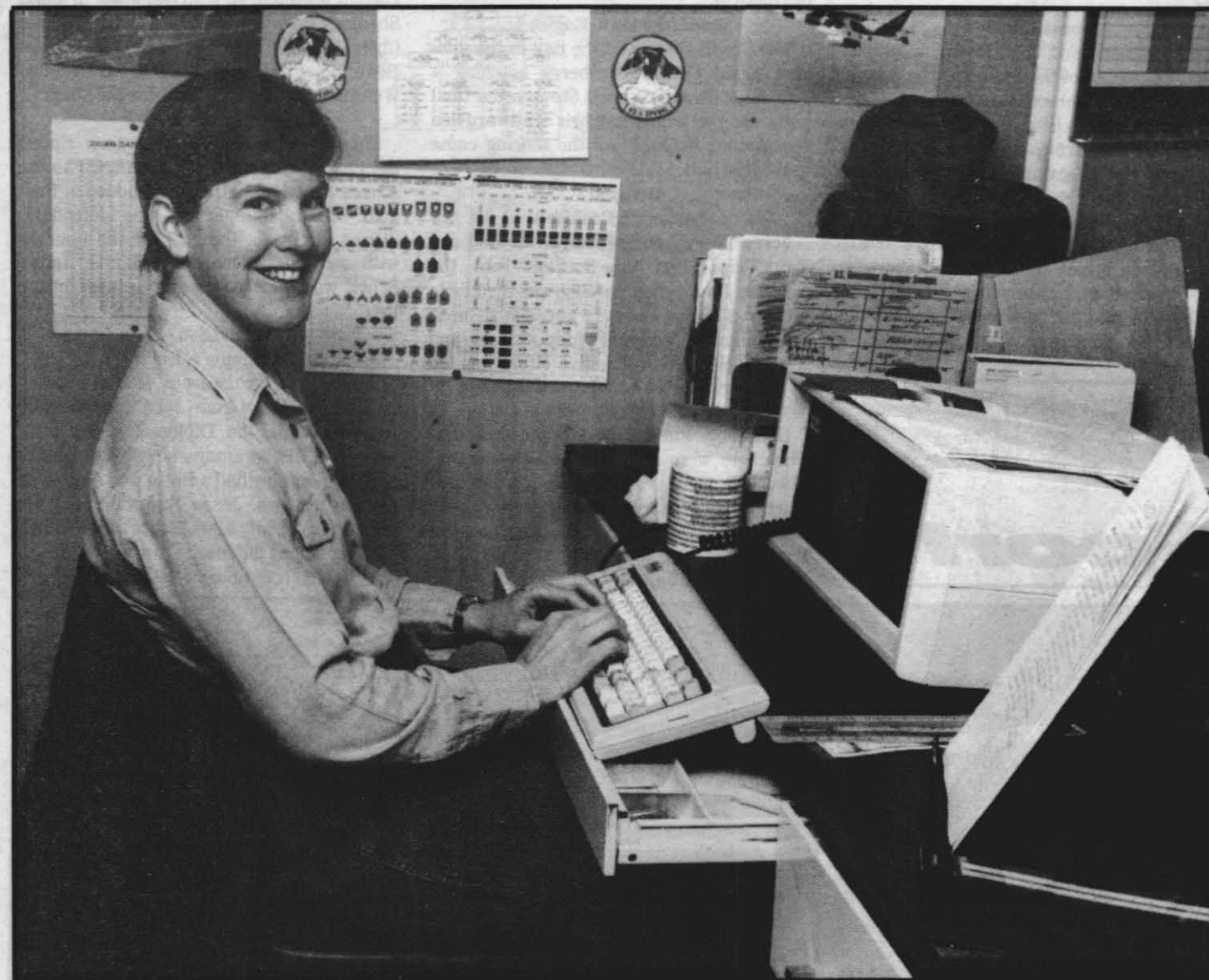
Computers also were the target of thieves. On Thursday of last week a resident in the Site B Capehart housing reported that an unknown person had entered the residence and taken home computer equipment valued at \$435. A calculator was reported as missing from an office at Salt Wells on Friday; this was reported as being worth \$175.

An unknown person either threw or hit a golf ball through the back window of a school bus parked at Murray Junior High School, doing \$80 damage.



Military News

VX-5 presents honors to Petty Officer Nilsen



VAMPIRE HONORED — Data Processing Technician Third Class Caroline Nilsen was selected as VX-5's Sailor of the Quarter for April for her efforts as the

AV-8B OPEVAL Data Processing and Yeoman Supervisor. She also received a Navy Achievement Medal recently. — Photo by PHAN Greg Hogan

Air Test and Evaluation Squadron Five recently announced the selection of Data Processing Technician Third Class Caroline E. Nilsen as Sailor of the Month for April.

Petty Officer Nilsen, who was also recently presented with a Navy Achievement Medal, is currently the administration and data processing supervisor for VX-5's Fleet Marine Force (FMF) Weapons Office at Armitage Field.

A native of Hathaway Pines, Calif., DP3 Nilsen was cited for her "outstanding performance and positive attitude" on the job in a letter of commendation from Capt. Roger P. Flower, recently relieved as Commanding Officer of VX-5.

The letter continues, "Through your own initiative you learned the operation of two new computers, multiple computer operating systems and software programs, and developed proficiency on the IBM Display Writer. You applied this knowledge, trained and organized your subordinates and provided a Data Processing Center and administrative support for the 113 sailors and Marines assigned to the (AV-8B OPEVAL) project."

Petty Officer Nilsen reported to VX-5 in March 1983 after graduating from DP "A" School in San Diego. When she is not busy at the airfield, she enjoys skiing, hiking and camping.

"I enjoy the challenge and the variety of work associated with the AV-8B OPEVAL," she said.

She is presently completing requirements for her B.S. degree in her spare time.

— By PHAN Greg Hogan

Navy Relief fund drive moves into high gear

The annual Navy Relief Society fundraising drive, which this year includes a drawing and the opportunity to win some exceptional prizes, is rolling into high gear, according to the drive's chairmen, LCdr. Rich Bruce and Lt. Brice Hammerstein.

Prizes will be awarded following a drawing to be held on June 6. The prizes include a choice of basic models (including the new sports model) of a Suzuki Quadrunner all terrain vehicle from Bob Foster's Super Cycle in Ridgecrest; a Schwinn 10-speed adult or child's bike from T. J. Frisbee's bike shop; and two \$25 gift certificates for dinner from either the Hideaway or LeParc Restaurants in Ridgecrest.

Donations for tickets are \$2 per ticket or six for \$10. Military personnel who make their donation to NRS through payroll allotments will receive a ticket for each \$2. Unfortunately, donations by civilians must be either in cash or checks because they are not able to allot to NRS.

Both military and civilian personnel can contribute to the NRS; last year this organization made loans or grants in excess of \$37,000 to local personnel. Loans are made to assist with emergency leave expenses, for essential dental care for dependents, and for the myriad of other emergency needs on behalf of military personnel, retired personnel and their dependents.

NRS provides free layettes for some

The Navy Relief Society provides free, well-rounded layettes to help out low ranked enlisted personnel who are expecting an imminent increase in family size. To be eligible, the enlisted person must be E-4 or below, and the individual (or his wife if the enlisted service member is male) must be in the eighth month of pregnancy.

All loans are interest free.

Tables will be set up around the Center between now and June 6 where those who wish to make a donation will be able to do so. In addition, a number of military personnel are collecting donations and will issue tickets in exchange for the donation.

These key personnel and their work codes include Lt. Larry Dove, Code 6203; DK1 Benjamin R. Pedrosa, Jr., PSD; YN3 James R. Hinkle, Code 211; AK2 Carla Z. Bare, Code 258; MS3 Robert D. Marshall, Codes 213 and 214; RM2 Theresa Carroll, Code 212; HM1 Robert Corder, Code 232; DT1 D. L. Caliosa, Code 231; MS1 Edward J. Bontty, Code 291; and Lt. Perry Clinkscales, Code 61.

Those in Code 612 are AE2 Neil Merzlyman, AMEAN Kevin Sylve, AZ2 Nora Kidwell, AMS1 John Dunn, AMS1 Howard Baker, AT2 Tony Mahan, A01 Steven Uman, AE2 David Galt, AZ3 Sandra Smith, AMSC A. L. Hill, AD3 Mark Rainho, AQ1 Daniel Anderson, AD1 D. L. Stiger, AK1 T. A. Everett, AKC O. M. Bolante, ADCS Homer Basque, AME1 Steven Sanders, AOAN Jerry W. Smith, and AS1 Gary Smith.

Others accepting donations are AE1 Ronald Claich, Code 610; ICC Jon Williams, Code 611; ET2 Ric Barela, Code 611; AC1 dependents.

The expectant mother (preferably accompanied by her husband, although this is not a requirement) should come to the Navy Relief Society Office, 1811 Lauritsen Road (across from Schoeffel Field) during office hours, which are Monday, Wednesday, and Friday from 11 a.m. to 2 p.m.

A current ID card is required.

Tina Evans, Code 611; RPSN Catriona MacKinan, Code 021; and LCdr. Rich Bruce, Code 31.

Lt. Sarah Clinkscales is heading the Navy Relief fund drive for Air Test and Evaluation Squadron Five.



FIRST DONATION RECEIVED — Capt. K. A. Dickerson, NWC Commander, and LCdr. Rich Bruce, who is co-chairing this year's Navy Relief Society fund drive, hold a poster about the campaign as Linda Smith, Chairman of Volunteers for the local chapter, cheers their contributions. The Skipper received ticket 0001 after making a donation; the tickets will be used for a drawing at which four major prizes will be awarded. — Photo by PH2 Rick Moore

**ELECTRICAL ENGINEERING
ENGR 260 - ELECTRICAL ENGINEERING
FUNDAMENTALS (3 units)**

31 May-27 July; Fridays 1600-1830, and Saturdays 0800-1030; Cerro Coso Community College. By: Professor Jagdish Prabhakar, CSUN.

Prerequisite: Physics 1B (Electricity and Magnetism) and Math 6D or 477 (Applied Differential Equations).

Scope: Topics include introduction to the theory and analysis of electrical circuits; basic circuit elements, including the operational amplifier; circuit theorems; DC circuits; forced and natural responses of simple circuits; sinusoidal steady-state analysis and the use of a standard computer-aided circuit analysis program. Consideration will be given to power, energy, impedance, phasors, and frequency response.

Text: *Basic Electric Circuit Analysis*. Johnson, Hilburn, and Johnson. Prentice-Hall. 2nd edition.

Note: This is a required course for an undergraduate degree in electrical or computer engineering.

BUSINESS AND PUBLIC ADMINISTRATION

BA 383 - INVESTMENTS (5 quarter units)

18 June-23 July (4 July is a holiday), Tuesdays and Thursdays, 1600-2100 (1-hour dinner break), Safety Building Classroom. By: Professor Ken Shakoori, CSUB.

Prerequisite: BA 381 (Financial Management) or consent of instructor.

Scope: Topics include supply and demand for capital; principles of analysis of various types of securities, security markets, and financial institutions; and formulations of investment strategies.

BA 677 - FUTURISM (5 quarter units)

18 June-23 July (4 July is a holiday), Tuesdays and Thursdays, 1600-2100 (1-hour dinner break), Safety Building Classroom. By: Professor Richard Graves, CSUB.

Scope: An introduction and critical overview of the science and art of futurism—the orderly study of the future. The course will explore the challenge for human survival in the face of resource shortages, population growth, and environmental degradation.

BA 340 - MARKETING (5 quarter units)

30 July-29 August, Tuesdays and Thursdays, 1600-2100 (1-hour dinner break), Safety Building Classroom. By: Professor Dennis Guseman, CSUB.

Scope: Provides a study of the nature and role of marketing in advanced economics in a managerial context; an analysis of consumer wants, motivation and purchasing power; and introduction to and formulation of optimizing mixes between product, pricing, distribution, and promotional variables.

Openings in robotics class

Space is still available in the Robotics Overview for Managers class offered May 22 by Richard Hughes. The enrollment deadline has been extended to May 17. Call NWC ext. 2359 to reserve space, then submit a training request (NAVWPNCEN 12410/73) to Code 094.

The class will cover the history, status and future of robotics, an overview of robot subsystems and nontechnical robotics issues.

The class will be held in the NWC Training Center starting at 8 a.m. Wednesday, May 22.

Recent additions

CODE	NAME	TITLE
0033	Pearl, Polly E.	Clerk-Typist
01A4	Hunter, Patricia M.	Clerk-Typist
08605	Powers, Charlotte J.	Clerk-Typist
08623	Pearl, Gwendolyn P.	Clerk-Typist
1441	Gee, Linda B.	Clerk-Typist
24	Ashton, Sandra K.	Clerk-Typist
24	Campbell, Gloria J.	Clerk-Typist
24213	Wells, Charles C.	Firefighter
24322	Gilbert, Deanna L.	Clerk-Typist
2524	Blockston, Cherrie L.	Procurement Analyst
26026	Olsen, Carol F.	Clerk-Typist
26436	Hopkins, William J.	Electrician (High Volt.)
3193	Marcellino, Steven J.	Operations Research An.
31B1	Cirotski, Betty B.	Clerk-Typist
3244	Goff, Duane W.	Electronics Tech.
35027	Caffery, Dennis E.	Admin. Junior Profession
3555	Nichols, Lawrence E.	Flight Test Spec.
3646	Krabbe, Harry O.	Engrg. Tech.
3651	Cornelius, Elizabeth	Engrg. Data Mgt. Spec.
3651	East, Thomas A.	Engrg. Data Mgt. Spec.
3653	Hunsaker, Stevan G.	Engrg. Tech.
36572	Glover, Teri A.	Engrg. Tech.
36572	Wiruth, Debra L.	Engrg. Tech.
3658	Tindall, John L.	Student Trainee (Comp.)
3661	Flynn, Thomas J.	Eq Spec. (missile)
3664	Jernigan, Charles R.	Logistics Mgt. Spec.
3664	Kraft, Dan E.	Qual. Assurance Spec.
3682	Rios, Debra J.	Qual. Assurance Spec.
3682	Turner, Gordon R.	Industrial Engr.

Recent departures

08	White, Betty M.	Clerk-Typist
0822	Knox, Claude B.	Mail/File Supv.
08622	Hodson, Robert D.	Accounting Tech.
1432	O'Donovan, Thomas J.	Computer Spec.
2413	Murphy, Patrick D.	Police Officer
25242	Huemrrich, James W.	Police Officer
26381	White, Bennie R.	Engrg. Tech.
26433	Nelson, William W.	Boiler Plant Opr.
26446	McGuire, James B.	Electrician
26448	Storm, Ray L.	Sheetmetal Mech.
31141	Krone, John R. Jr.	Mathematician
3155	Peterson, Lawrence A.	Electronics Engr.
3242	Miller, Kenneth B.	Mechanical Engr.
3624	Pelton, Terence L.	Engrg. Tech.
3648	Galman, Virgilio G.	Materials Expediter
3664	Bellamy, Michael F.	Logistics Mgt. Spec.

Personnel servicing teams established at NWC



NANCY CLELAND OPAL COUGHLIN GERI BAKER JOAQUIN RIVIER

This is the sixth of 8 articles featuring the personnel servicing teams. The Personnel Department recently organized the Service Divisions into 8 personnel servicing teams. Each team is composed of 4 members: 2 Personnel Management Advisors and 2 Personnel Assistants. This week the spotlight is on the team providing personnel services to Codes 25, 32, 21, 23, and 291. Team members are:

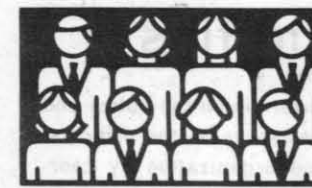
Geri Baker started working for NWC in October 1982. Geri was in the WAE pool until May of 1983, when she became a WAE for the Personnel Department. In October 1983, she became the word processing clerk for the Professional Recruiting Office. Geri became a personnel assistant in Code 097 in April 1985.

Opal Coughlin came to NWC in April 1985 as a personnel assistant. Prior to coming to the Center, she worked as a personnel assistant and later as payroll clerk at Mather Air Force base, Sacramento, CA.

She plans to continue working on a BA in Business Administration.

Nancy Cleland began working for the Personnel Department at NWC in 1967. She spent the first sixteen years in the Employee Relations Division in various positions including Clerk-Typist, Secretary, and Employee Relations Specialist. In 1983 she reassigned to the Service Division as a back-up PMA and has served as the Lead PMA for this assignment since January 1984.

Joaquin Rivier joined the NWC Personnel Department in November 1984. Before coming here he worked for the Army in Frankfurt, Germany; The Department of Energy in Portland, Oregon; and U.S. Forest Service in San Diego. He has a Bachelor's Degree from Portland State University and Master's from Michigan University. Joaquin serves as a back-up PMA for this team.



Promotional Opportunities

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

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

No. 31-168, Supervisory (Interdisciplinary) General/Electronics/Electrical Engineer, Computer Scientist, Physicist, Mathematician, DP-801/855/850/1550/1310/1520-3/4, Code 3112 — Position is that of branch head, A-6 Facility Branch. Branch develops, maintains, and operates simulation/integration facilities to support the A-6 Weapon System Support Activity (WSSA) in the role of technical assistance, requirement definition, system development, weapons system integration, validation, architecture, hardware engineering, facility software engineering and software engineering and simulation software. Incumbent provides overall direction, coordination and management of branch activities. **Elements:** Knowledge of Weapons Systems Support Activities (WSSAs) mission requirements, avionics facilities hardware and software analysis, design, and operations; embedded computer applications and productivity enhancements, including hardware and software tools; knowledge of computer systems architecture and application; understanding of NWC personnel policies, procedures and ability to support NWC EEO policies and goals. If filled at the DP-3 level, this position has promotion potential to DP-4, but is not guaranteed.

No. 32-171, Mechanical Engineering Technician/Physical Science Technician, DT-802/1311-2/3, Code 3265 — Incumbent assists in assembly, instrumentation, and testing of small scale energetic/non-energetic materials. Typical tests include thermal stability analysis, severity of reaction determination, thermal diffusivity analysis, aging studies, time/temperature to cook-off determinations. Assists in test fixture inspections, and assists in data analysis. **Elements:** Knowledge of explosives safety; knowledge of thermo-couples and data recording devices; ability to work as a member of a team performing tests on a variety of ordnance items; ability to communicate both orally and in writing. Status eligibles may apply.

No. 32-173, Interdisciplinary Supervisory Electronics Technician, DP-802/856-3, Code 3112 — Position is that of branch head, A-6 Facility Branch. Branch develops, maintains and operates simulation/integration facilities to support the A-6 Weapon System Support Activity (WSSA) in the role of technical assistance, requirement definition, system development, weapons system integration, validation, architecture, hardware engineering, facility software

engineering and software engineering and simulation software. Incumbent provides overall direction, coordination and management of branch activities. **Elements:** Knowledge of Weapons Systems Support Activities (WSSAs) mission requirements, avionics facilities hardware and software analysis, design, and operations; embedded computer applications and productivity enhancements, including hardware and software tools; knowledge of computer systems architecture and application; understanding of NWC personnel policies, procedures and ability to support NWC EEO policies and goals.

No. 36-219, Clerk-Typist, GS-322-3/4, Code 3651 — Provides clerical and typing support. **Elements:** Knowledge of Navy correspondence procedures. **Ability:** to operate word processing equipment. Status eligibles may apply. This is readvertisement of previous announcement; previous applicants needs not reapply.

No. 36-220, Management Assistant, GS-344-5/6, Code 3602 — Serves as a management assistant to the Head of Staff. Operates primarily in the areas of personnel management, employee benefits and services, and management analysis; uses his/her knowledge and skill in the above areas to give advice and service and to perform administrative operations which have impact on the entire department. **Elements:** Knowledge of NWC personnel procedures and policy; of Center awards program and employee benefits; of Engineering Department organization, policy, and procedures. **Ability:** to organize and assemble facts into a coherent whole; to express himself/herself and his/her ideas and data both orally and in writing; to communicate easily with people at all levels on Center. Status eligibles may apply. Readvertisement. Previous applicants need not reapply.

No. 33-018, Security Clerk, GS-303-4/4, Code 3302 — This position is located in the Fuze and Sensors Department, Staff Office. The incumbent will perform the following duties: act as focal point for personnel actions and status; receives and processes incentive awards and serves as secretary to Department Awards Panel; receives and processes mail and messages (classified and unclassified); custody control point for the department. **Job Elements:** Knowledge of security procedures and control, personnel procedures; ability to plan, organize and accomplish work independently; ability to perform a variety of clerical/staff functions.

No. V-35-021, Administrative Officer, DA-341-1, Code 35102 — Incumbent is responsible for providing full range of administrative support functions within the Systems Sciences Division. Principal duties will be to support requirements for the Strike Electronic Warfare Simulator (SEWS) program and the System Software Support Facility (SSSF). **KSAs:** Knowledge of NWC accounting and budgeting processes, contracting and procurement procedures; ability to deal effectively with all levels of personnel to present information, both orally and in writing, and to conduct studies and analyses. Promotion potential DA-2. Previous applicants need not reapply.

No. 35-061, Engineering Technician, DT-802-2/3, Code 3556 — Incumbent responsible for plan, design, layout, and maintenance of real property (buildings, structures, utility systems, and associated plan and technical equipment). The work schedule is the "First-Forty" hours. **KSAs:** Knowledge of design and development of Military Construction, facility and equipment improvement. Ability to plan, coordinate, test, evaluate, and support specific technical areas; to coordinate, monitor, and review the work of junior technicians; to communicate orally and in writing. Promotion potential: DT-3.

No. D-39-040, Mechanical Engineering Technician, DT-802-1, Code 3941 — This position is located in the Sensors and Platforms Branch. Incumbent operates Computer Vision to develop engineering design packages. Primary function is to transfer design data from other computer aided design data base (SDRC Geomod) into three dimensional Computer Vision data. Also generates documentation from engineering sketches or verbal description. **Job Relevant Criteria:** Ability, knowledge and experience in three dimensional mechanical modeling. Experience in electrical design on Computer Vision. Proficiency in the operation of computer vision terminal. Promotion potential DT-3. Status eligibles may apply.

No. D-39-043, Supervisory Mechanical Engineer, DP-830-3, Code 39151 — As head, Mechanical Design Section, is responsible for mechanical design and related tests and evaluation for the development of weapon airframes and mechanical systems. **Knowledge of:** airframe configuration and related aerodynamics; structural design; structural dynamics; vibration and shock environment; thermal environment; mass properties; handling, safety, and performance requirements. **Ability:** to supervise a section; communicate well both orally and in writing; deal effectively with people; understand NWC personnel policies and procedures; support NWC EEO policies and goals.

No. D-39-045, Engineering Technician, DT-802-2/3, Code 3941 — (One vacancy).

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ers, liner materials, and inert simulants. **Elements:** Knowledge of chemical synthesis and formulation procedures for energetic materials, of and willingness to support the Federal EEO program and policies. Ability to lead and contribute to a scientific organization; to manage and motivate personnel. Promotion potential to DP-4 if filled at DP-3, but not guaranteed. Status eligibles may apply.

No. 36-244, Engineering Technician, DT-802-3, Code 3646 — Incumbent works independently and with engineers and scientists in conjunction with or as a consultant on design and fabrication of weapons systems hardware in relation to Computer Aided Manufacturing. Ensures that designs and fabrication processes are properly formatted for tolerancing, configuration control, complex surface generations, costs, production control, quality control, and documentation standards. Incumbent is responsible for the coordination of assigned projects between the weapons system customer and the CAM processes involved including providing quality-assured data packages. Develops new software and hardware to expand the use of Computer Aided Manufacturing process. **Elements:** Knowledge of the CAM process including APT and graphics programming for multi-axes fabrication functions; of design practices and design documentation standards. **Ability:** to work directly with the design engineers, plan projects, and program automatic tools via the graphic process, program in APT (multi-axes) and lead others in completing project work. Three-years' experience in CAM operations and programming is desirable. This ad was incorrectly run last week as a DT-802-2.

No. 36-247, Quality Assurance Specialist, DS-1910-2, Code 3643 — The incumbent is responsible for the application of quality control techniques and procedures during the planning, design, fabrication, testing, and production of weapons systems, related equipment and components. The incumbent performs work requiring the use of very specialized measuring equipment which requires devising and improvising new methods and techniques for using such equipment. Formal QA audit reports, memos and trip reports are required. **Elements:** Knowledge of complex manufacturing processes and techniques. **Ability:** to apply control and mechanical inspection techniques; to communicate effectively both orally and in writing.

No. D-39-040, Mechanical Engineering Technician, DT-802-1, Code 3941 — This position is located in the Sensors and Platforms Branch. Incumbent operates Computer Vision to develop engineering design packages. Primary function is to transfer design data from other computer aided design data base (SDRC Geomod) into three dimensional Computer Vision data. Also generates documentation from engineering sketches or verbal description. **Job Relevant Criteria:** Ability, knowledge and experience in three dimensional mechanical modeling. Experience in electrical design on Computer Vision. Proficiency in the operation of computer vision terminal. Promotion potential DT-3. Status eligibles may apply.

No. D-39-043, Supervisory Mechanical Engineer, DP-830-3, Code 39151 — As head, Mechanical Design Section, is responsible for mechanical design and related tests and evaluation for the development of weapon airframes and mechanical systems. **Knowledge of:** airframe configuration and related aerodynamics; structural design; structural dynamics; vibration and shock environment; thermal environment; mass properties; handling, safety, and performance requirements. **Ability:** to supervise a section; communicate well both orally and in writing; deal effectively with people; understand NWC personnel policies and procedures; support NWC EEO policies and goals.

No. D-39-045, Engineering Technician, DT-802-2/3, Code 3941 — (One vacancy).

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No. D-39-045, Engineering Technician, DT-802-2/3, Code 3941 — (One vacancy).

This position is located in the Sensors and Platforms Branch, Electro-Optics Division, of the Weapons Department. Specifically, the position is located in the Code 3941 White Room. This branch is heavily involved in the development of advanced state-of-the-art electro-optical seekers. Incumbent's duties will deal with the engineering phase of seeker development including assembly and test of seekers. **KSAs: Knowledge:** a strong mechanical background via an accredited machinist apprentice program or trade school is a requirement for this position. Experience in electro-optical seeker assembly and test is desirable, but not a requirement. **Abilities:** to coordinate, plan and meet project work schedules; to communicate orally and in writing; to work and interface with other technicians, senior engineering personnel and managers at the project office level.

No. 62-024, Electronics Technician, DT-856-1/2, Code 6212 — The incumbent sets up, operates, maintains and repairs instrumentation and various electronic devices. Typical equipment and devices include: digital vibration controller and analyzer; tape recorders and plotters; transducers; signal conditioning equipment; oscilloscopes; large, transistorized power amplifiers. The incumbent conducts typical environmental tests, records and analyzes data. **Job Elements:** Knowledge of environmental testing; knowledge of test measurement equipment; ability to communicate orally; ability to communicate in writing; ability to work as a part of a team performing environmental testing of, sometimes, hazardous items.

No. 25-067, Purchasing Agent, GS-1105/4/5/6, Multiple vacancies, Code 2522 — Incumbent is responsible for providing entire range of small purchase support to a customer assignment, including procuring standard and commercial items as well as specialized equipment, material and services. Reviews the purchase description, determines adequacy, and selects appropriate method of purchase using a state-of-the-art on line automated supply information system (OASIS) to accomplish these tasks. **Elements: Knowledge of:** small purchase procedures and regulations. **Ability to:** deal effectively with personnel at many levels; work without close supervision; utilize a computer terminal and management information system. Promotional potential to GS-1105-6 but not guaranteed. Status eligibles may apply. This is a re-run of a former ad; previous applicants need not apply.

No. 26-155, Air Conditioning Equipment Mechanic, WG-5306-11, Code 26449 — Supplemental Required. Incumbent installs, maintains, and repairs refrigeration and air conditioning equipment and components used in providing refrigeration and air conditioning for living quarters, offices, commercial, industrial, and lo-temp test units for environmental control. Equipment includes refrigeration units, refrigerated air conditioning, humidifiers, evaporative air conditioning, gas, steam and hot water heating units. The incumbent often works indirectly with an engineer setting up and

modifying the equipment, as the nature of these test parameters is original and they are often one-time affairs. **Job Relevant Criteria:** Ability to do the work of the position without more than normal supervision; ability to read and interpret blueprints, sketches, etc.; ability to troubleshoot pertinent equipment; ability to install, repair or maintain pertinent equipment.

No. 31-166, Interdisciplinary Supervisory Physicist/Electronics Engineer, DP-1310/855-3, Code 31142 — This position is the head of the Hardware Systems Development Section which is located in the F-18 Facility Branch, Avionic Facilities Division of the Aircraft Weapons Integration Department. The F-18 Facility Branch provides the simulation/integration test environment and workstations for the development, test, validation, verification and modification of operational flight programs exercised in the tactical computers of the F/A-18 aircraft. The incumbent will be responsible to the branch head for the planning, development, and implementation of F-18 WSSF hardware and avionic systems. The prime function of this position will be to technically supervise the design, documentation, fabrication, testing and maintenance of F-18 WSSF hardware systems. This hardware includes both digital and analog subsystems that are to be developed for WSSF workstations. The incumbent will be required to conduct hardware design reviews with Center and contract personnel. **Job Relevant Criteria:** Ability to supervise and provide leadership to a multi-disciplined group of Electronics Engineers and Technicians; experience in avionic systems and digital design; ability to plan, schedule, and coordinate work as a part of a major project; experience in formalized hardware design, documentation and maintenance standards and practices; experience in Fletcher digital design techniques in highly desirable; knowledge of and willingness to support NWC EEO policies and goals.

No. 31-167, Computer Specialist, DS-334-1/2, Code 3108 — Provides software product assurance support to the computer software development and maintenance projects of the department. Code 3108 provides configuration management, data management and quality assurance support to the AH-1, A-4, A-6, A-7, AV-8, F/A-18 and the Missions Support Systems Program Office. **Elements:** Knowledge of the experience in applying Navy policies and procedures for software product assurance; knowledge of systems documentation and system testing; knowledge of and experience in performing effective software configuration management, data management and quality assurance; knowledge of and experience in planning, organizing, developing and implementing procedures for software data management, configuration management and quality assurance; skill in using VAX 11/780 and DEC PDP 11/70; skill in accessing and using computerized data bases. Promotional potential to DS-3, however promotion is not guaranteed. Status eligibles may apply.

No. 33-016, Electronics Engineer, DP-855-1/2/3, Exploratory Development Branch, Code 3311. Work on the two newest, most important problems facing the fuzing community. These problems will require significant advances in signal processing circuits. High speed digital processing will be required to handle complex algorithms dealing with unusual background clutter and GIFT (Guidance Integrated Fuzing Technology). VHSIC-level chips will be commonplace in the final designs. Artificial Intelligence will be used to process optical data from focal plane arrays. Digital design experience and ability to bread-board designs is desired. Willingness to learn the AI world as it develops is also desired. Please send current SF-171 to Laurie Saikin, Code 33102, ext. 3093/3902. Previous applicants need not reapply.

No. 33-016, Electronics Engineer, DP-855-1/2/3, Exploratory Development Branch, Code 3311. Work on the two newest, most important problems facing the fuzing community. These problems will require significant advances in signal processing circuits. High speed digital processing will be required to handle complex algorithms dealing with unusual background clutter and GIFT (Guidance Integrated Fuzing Technology). VHSIC-level chips will be commonplace in the final designs. Artificial Intelligence will be used to process optical data from focal plane arrays. Digital design experience and ability to bread-board designs is desired. Willingness to learn the AI world as it develops is also desired. Please send current SF-171 to Laurie Saikin, Code 33102, ext. 3093/3902. Previous applicants need not reapply.

No. 35-044R, Interdisciplinary (General/Electronic/Aerospace Engineer, Physicist, Mathematician, Computer Scientist), DP-801/855/861/1310/1520/1550-2/3, Multiple Vacancies, Code 3515. Incumbent supports development of tactical software for EW systems (e.g. HARM,

course fits into your overall career plan and how attendance at the course will strengthen your contribution to the Center's mission. If you are not yet a California resident, please include a statement from your supervisor indicating the negative impact to NWC of postponing the training until residency is established. Code 094 will return the approved form to you. You must take it with you to Cerro Coso when you register in order for NWC to pay your tuition. If you are a co-op student, a DD 1556 is not required, simply tell the registrar that you are an NWC co-op student when you register. If you have any questions, call Kit Driscoll or Cecil Webb, NWC ext. 2648 (Code 094).

Secretarial opportunities

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

Unless otherwise indicated, applicants will be rated against the job relevant criteria indicated below. A supplemental form is required and may be obtained at Room 100 in the Personnel Building. **Job Relevant Criteria:** Ability to perform receptionist and telephone duties; ability to review, control, screen and distribute incoming mail; ability to review outgoing correspondence; ability to compose correspondence and/or to prepare non-technical reports; knowledge of filing systems and files management; ability to meet the administrative needs of the office; ability to train clerical personnel and organize workload of clerical staff processes; ability to plan and coordinate travel arrangements; ability to maintain and coordinate supervisor's calendar and to arrange conferences.

No. 32-172, Secretary (Typing), GS-318-4/5, Code 3263. Provides secretarial support to Weapons Systems Branch "A". Knowledge and working skill on a Xerox 640 is desirable. Status eligibles may apply.

No. 35-060, Secretary (Typing), GS-318-4, Code 3515. Incumbent will provide support to the Head, Embedded Tactical Software Branch. Promotion potential: GS-5. Supplemental required.

No. 36-245, Secretary (Typing), GS-318-3/4, Code 3624. Provides secretarial support to the Head, Materials Engineering Branch. Status eligibles may apply.

No. 36-246, Secretary (Typing), GS-318-4/5, Code 3656. Provides secretarial support to Specifications Branch. Status eligibles may apply.

No. 36-248, Secretary (Typing), GS-318-3/4, Code 3665. Provides secretarial support to the Environmental Engineering Branch. Working skill on an IBM Mag Card is desirable.

No. D-39-044, Secretary (Typing), GS-318-4/5, Code 3918. Incumbent provides secretarial support to the Advanced Systems Branch. Status eligibles may apply.

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. 33-015, Physicist, DP-1310-1/2/3, Exploratory Development Branch, Code 3311. Work on the two newest, most important problems facing the fuzing community. Efforts to find long wavelength infrared solutions to these problems are just starting. Experience with infrared detectors and/or optical systems, ability to research the background literature, produce a design concept and breadboard, and perform verification testing is desired. Interest in optical properties of materials and environments is also desired. Success may lead to management of a small group developing your concepts. The programs are starting at the 6.2 level and will evolve into 6.3 work. Please send current SF-171 to Laurie Saikin, Code 33102, ext. 3093/3902. Previous applicants need not reapply.

No. 33-016, Electronics Engineer, DP-855-1/2/3, Exploratory Development Branch, Code 3311. Work on the two newest, most important problems facing the fuzing community. These problems will require significant advances in signal processing circuits. High speed digital processing will be required to handle complex algorithms dealing with unusual background clutter and GIFT (Guidance Integrated Fuzing Technology). VHSIC-level chips will be commonplace in the final designs. Artificial Intelligence will be used to process optical data from focal plane arrays. Digital design experience and ability to bread-board designs is desired. Willingness to learn the AI world as it develops is also desired. Please send current SF-171 to Laurie Saikin, Code 33102, ext. 3093/3902. Previous applicants need not reapply.

No. 35-044R, Interdisciplinary (General/Electronic/Aerospace Engineer, Physicist, Mathematician, Computer Scientist), DP-801/855/861/1310/1520/1550-2/3, Multiple Vacancies, Code 3515. Incumbent supports development of tactical software for EW systems (e.g. HARM,

LCS). Uses structured analysis techniques and tools to graphically define software requirements, design and test the software. Writes code in assembly language using VAX editors and cross assemblers. Provides recommendations for approval of tactical software changes, plans and executes validation tests in a Software Support Facility. To apply for this position, forward an updated SF-171 to Bill Stratton, Code 3515, NWC, X2951. Previous applicants need not reapply.

No. 36-234, Interdisciplinary Computer Scientist, Physicist, General/Mechanical/Electronics/Industrial/Chemical Engineer, Mathematician, DP-1550/1310/801/830/855/893/896/1520, Code 3687. The incumbent will provide support to a variety of Weapons Systems Development Programs, both on and off-Center, through the application of System Safety Engineering and Management principles and tasks. The incumbent will be required to identify hazards associated with the system; determine hazard likelihood level and qualitative/quantitative risk factors, and make recommendations for the eliminations and/or control of all hazards which are critical or catastrophic in nature. The incumbent will be the Harpoon System Safety Engineer/Manager and will be responsible for supporting the Harpoon Weapon System Production and the Harpoon/S-3B Aircraft Integration Programs. **Elements:** Knowledge of aircraft and missile systems; of systems analysis and engineering, system safety and/or reliability. **Ability:** to plan, schedule, coordinate and evaluate long-term tasks; to communicate effectively both orally and in writing; to work closely and effectively with military, government and industry personnel. To apply for this position forward an updated 171 to Ruth Inman, Code 3680.



personnel development opportunity

CAL-STATE SUMMER CLASSES

The following classes are being offered this summer for the Cal-State Chico Computer Science Program, the Cal-State, Northridge Electrical and Mechanical Engineering Programs, and the Cal-State Bakersfield Business and Public Administration Programs.

COMPUTER SCIENCE

MATH 477 - NUMERICAL ANALYSIS (5 quarter units)
17 June-22 July, Monday and Wednesday, 1600-1800, Safety Building Classroom. By: Chuck Kenney, Ph.D., ext. 3597.

Prerequisite: Differential Equations, FORTRAN.

Scope: Topics include numerical solutions of nonlinear equations; linear systems of equations; estimation of characteristics roots; quadrature; curve fitting; interpolation; numerical solution of ordinary differential equations; basic concepts of numerical error; error propagation.

Text: *An Introduction to Numerical Analysis*. Atkinson. Wiley.

CSCI 370 - SYSTEMS DESIGN THEORY (3 units)

1 and 2 June, 22 and 23 June; Saturday and Sunday, 0800-1600; Safety Building Classroom. By: Professor Arnovick, CSUC.

Prerequisite: CSCI 270 (Systems Design) or consent of instructor.

Scope: Software project management: planning, organization, staffing, and control of a software project. Software cost factors and software cost estimation models. Legal and regulatory aspects of software engineering.

Text: No text.

Note: This is a required class for the MSCS, Software Engineering Option.

CSCI 273: DATA BASE MANAGEMENT (3 units)

20 and 21 July, 17 and 18 August, and 14 and 15 September; Saturday and Sunday, 0800-1600; Safety Building Classroom. By: Professor James Murphy, CSUC.

Prerequisite: CSCI 151 (Data and Program Structures).

Scope: An introduction to data base management systems. Topics include storage structures and data-definition languages and data-manipulation languages for relational, hierarchical, and network approaches to data base management.

Text: To be announced.

CSCI 372: OPERATING SYSTEM THEORY (3 units)

3 and 4 August, 24 and 25 August, and 21 and 22 September; Saturday and Sunday, 0800-1600; Safety Building Classroom. By: Professor Larry Wear, CSUC.

Prerequisite: CSCI 272 (Multi-User Operating Systems).

Scope: A review of operating system development. The course involves comparison of various types of multipurpose systems including master/slave and parallel process systems and analysis of multiprocessor system performance and capabilities. Material for this course changes to reflect current research in the field.

Text: To be announced.

MECHANICAL ENGINEERING

ENGR 396 - SELECTED TOPICS IN THERMAL FLUID SYSTEMS (3 units)

5 June-1 August; Wednesdays 1400-1700, and Thursdays 0830-1130, Training Center Annex. By: Professor T. W. Fox.

Scope: An overview of essential theories from thermodynamics, fluid mechanics, and heat transfer, required for engineering analysis of thermal-fluid systems. Topics include first and second laws of thermodynamics; fundamental equations of fluid mechanics; introduction to conduction, convection, and radiative heat transfer.

Text: *Introduction to Thermal Sciences*. Schmidt, Henderson, and Wolgemuth.

CSCI 152 - OPERATING SYSTEMS PROGRAMMING (3 units)

7-9 June, 28-30 June, 26-28 July; Friday, 0800-1200; Saturday and Sunday, 0800-1600; Safety Building Classroom. By: Professor Clement Luk, CSUC.

Prerequisite: CSCI 151 (Data and Program Structures).

Scope: Operating system concepts and techniques are addressed. The course includes study of linkage-editors, loaders, channel operations, and interrupt handlers.

Text: To be announced.

CSCI 350A: LANGUAGE THEORY (3 units)

15 and 16 June, 13 and 14 July, 10 and 11 August; Saturday and Sunday, 0800-1600; Safety Building Classroom. By: Professor Bruce Pumplun, CSUC.

Prerequisite: Discrete Mathematical Structures.

Scope: Use of relations, functions, and graphs in data management; structured programming and flow analysis; applications of regular grammars, finite state automata, regular expressions, context-free grammars, and pushdown automata in language recognition and translation; decidability and its influence on program testing and formal verification; state transition and applicative models of computation; and fundamental results from analysis of algorithms.

Text: To be announced.

Note: This is a required course for the MSCS, Software Engineering Option.

ENGR 260L: ELECTRICAL ENGINEERING FUNDAMENTALS LABORATORY (1 unit)

1 June-27 July, Saturdays, 1400-1700, Cerro Coso Community College. By: Professor Jagdish Prabhakar, CSUN.

Scope: Laboratory for ENGR 260 listed above.

ENGR 355 - THEORY OF DIGITAL MACHINES (3 units)

3 June-30 July; Mondays 1000-1230, and Tuesdays 0730-1000; Cerro Coso Community College. By: Professor Robert Wong, CSUN.

Prerequisites: Math 68.

Scope: An introduction to digital systems. Topics include number systems, binary codes, Boolean algebra, combinational logic design, logic minimization techniques, sequential circuits design, arithmetic operations, data transfers using register transfer notation, memory devices, digital system organization and digital subsystems design.

Text: *Digital Logic and Computer Design*. Mano. Prentice-Hall.

Note: This is a required course for an undergraduate degree in electrical or computer engineering.

ENGR 355L - THEORY OF DIGITAL MACHINES LABORATORY (1 unit)

3 June-29 July, Mondays, 1400-1700, Cerro Coso Community College. By: Professor Robert Wong, CSUN.

Scope: Laboratory for ENGR 355 listed above.

Life insurance open season set

The Office of Personnel Management (OPM) has announced that it will conduct an open enrollment for Federal Employees Group Life Insurance (FEGLI) from June 1 through June 30, 1985. All NWC employees otherwise eligible for life insurance coverage will have the opportunity to add to their existing coverages or to enroll if they had previously waived coverage. All changes will be effective in August 1985.

In preparation for the open enrollment

period you should consider your current level of coverage and whether your insurance needs have changed since you made that election. Please remember that you do not have to wait for an open season to make a change in the designation of beneficiary on your life insurance. You may change your beneficiary at any time simply by contacting your personnel clerk and filling out a new designation of beneficiary form.

Cerro Coso classes available

The Center will pay your full tuition if you are enrolled in courses provided under the NWC/Cerro Coso Contract. If you can show that courses are job-related or will strengthen your contributions to the Center's mission, your tuition will be paid directly to the college by Code 094.

If you are not a co-op student, you must submit a DD Form 1556 (Request, Authorization, Agreement, and Certification of Training and Reimbursement) via department channels to Code 094. The form must arrive in Code 094 at least five working days prior to registration.

If a course is not directly job-related, submit NAVWPNCEN 12410/66, Academic Enrollment Justification and NAVWPNCEN 12410/68, Individual Development Plan, describing how the