

Engineering society presents CALS

Because featured subjects are so often of general interest, the public is invited to meetings of the Society of Logistics Engineers (SOLE). The next meeting will be no exception. Mr. David Topper, Senior Account Representative from Interleaf, Inc., will be presenting an in-depth review of computer-aided logistics systems (CALS).

The event, to be held at 11 a.m. on Wednesday,

Nov. 15, at the Hideaway, will feature a buffet lunch. Because of the scope of the presentation, attendees are advised to allow two hours for the luncheon and talk. Tickets are \$7.50 for SOLE members and \$8.50 for non-members and may be obtained from Bill Wilson or Jerry Banister at NWC ext. 3441 or Tree at NWC ext. 3261 through Monday, Nov. 13.

FMA Corner

10 most unusual jobs listed

The China Lake Chapter 28 of the Federal Managers Association will hold its November meeting on Tuesday, Nov. 7, from 11:30 until 12:30 p.m. at its new office located at 707 Ellis St. Larry Stout, representative for California Dental Health Plan, will be available to provide information on the status of FMA efforts to obtain a dental health plan for Chapter 28. Members will also have the opportunity to update their beneficiary files at the meeting. Lunch will be provided.

Do you think your job is off-beat? Consider the following list of military and civil service positions compiled by the *Wall Street Journal*.

- Smokey Bear's manager at the Forest Service.

- The Army's director of civilian marksmanship. Five million dollars a year are spent training the public so they "can function in the national interest in case of war."

- Fish Watcher at the Department of Commerce. Monitors compliance with U.S. rules on what fish can be taken from U.S. waters by foreigners.

- The Supreme Court Mistress,

who hems the justices' robes.

- The "Gold Stacker" in the basement of the Federal Reserve Bank of New York, who moves gold bars from one chicken-wire cage to another as one nation sells gold to another.

- The legal cocaine importer, employed by the Drug Enforcement Administration, who grants licenses to medical drug companies to import coca leaves for medicinal use.

- The condom tester at the Food and Drug Administration, who blows up the devices on a machine to check them for "overall product quality."

- A currency reconstructor at the bureau of Engraving and Printing, who pieces together shredded bills turned in for redemption.

- The Air Force Art curator, who oversees the USAF collection of 7,000 paintings, drawings and sculptures of "anything remotely related to the Air Force."

- The White House gift appraiser who, as required by law, estimates the commercial value of all official gifts the President and First Lady receive.

Community Events

Indian Wells Valley Gem and Mineral Society presents its 33rd Annual Gem and Mineral Show this weekend. Saturday hours are 9 a.m. to 6 p.m., and Sunday the show will run from 9 a.m. to 5 p.m. No admission will be charged for this show which features exhibits, demonstrations, field trips, geodes, food, drinks and door prizes.

Maps and directions to the corner of Hussey and Ellis location will be available at the NWC main gate on the days of the show.

"The Best of Rock and Roll," featuring The Adults is scheduled for Nov. 4 at the Base Theater. The Adults, "live from the Sunset Strip," will share the spotlight with special guests, Kontakt. Advance tickets may be purchased at the Wherehouse and the Minit Shop for \$5 or at the door for \$7. Theater doors open at 7 p.m.; show starts at 8 p.m.

On Monday, Nov. 6, at 7:30 p.m. in the Sylvia Winslow Gallery at the Maturango Museum, the China Lake Astronomical Society and the museum join to offer a special lecture.

Dave Rosenthal, electronics engineer at the China Lake Naval Weapons Center and science correspondent for Radio Netherlands, will present a program on the Voyager excursions to the outer planets. Slides from the Voyager fly-by of Jupiter and of Uranus will be shown and possibly slides of the recent encounter of Neptune.

As science correspondent, Rosenthal spent the week of August 22-29, 1989 at the Jet Propulsion Laboratory, witnessing the images sent by Voyager II as it neared and then passed Neptune. In addition to the lecture, guests will be able to view the photographic exhibit of Voyager's encounter with Neptune.

For further information, please call the museum weekdays between the hours of 10 a.m. and 5 p.m. at 375-6900.

Ed Donahue, Code 6102, is retiring after 31 years of federal service, 27 of which has been spent at NWC. A farewell party is being planned for Friday, Nov. 17, at the Elks' Club in Ridgecrest. For more information or reservations, call Jennie, BJ or Keith at NWC ext. 5405 by Nov. 13.



No thanks, I'm driving!

American Legion Post 684 Lunches

Served 11 a.m. to 1 p.m.
Monday - Friday
Members & Invited Guests

Menu	Daily Specials
Burgers\$1.25	\$2.75
with fries.....\$1.50	Monday - 11/6
Cheese Burger.....\$1.40	Beef Tips & Noodles
with fries.....\$1.65	Tuesday - 11/7
Bowl Chili\$1.25	Country Ribs & Beans with
Chili Size\$1.75	Potato Salad
Hotdog\$1.00	Wednesday - 11/8
with chili\$1.40	Steak Sandwich with Fries
Chicken Sandwich\$1.40	Thursday - 11/9
with fries.....\$1.65	Mexican Plate
Beef Dip	Friday - 11/10
with Potato Salad.....\$2.00	Beer Battered Fish & Chips
Beef Stew.....\$1.25-\$1.50	with Slaw
Fries50¢	Clam Chowder\$1.25 & \$1.50
Potato Salad50¢	Monday - 11/13
Pie.....75¢ slice	Meat Loaf

641 Inyokern Rd.
446-6684

NWC Rocketeer

Naval Weapons Center, China Lake, California 93555-6001

Vol. XLIV, No. 43/November 3, 1989

Professional ability wins honors

Terry Kuhlman's work recognized with Technical Director's Award

"You've done absolutely superb work," said Gerry Schiefer, the then NWC Technical Director, as he presented the Technical Director's Award to Terry Kuhlman of the Engineering Department.

Schiefer added, "In a program fraught with difficulties you made every effort to achieve success and 'get the job done', while striving for highest levels of quality. You kept the lines of communication open and demonstrated professional management skills by interfacing effectively with personnel at many levels in government and industry."

In his letter nominating Kuhlman for this recognition, Sterling Haaland, the then head of the Engineering Department, said the award was for "his excellent work and outstanding contribution in support of the Phoenix AIM-54C Safe and Arming Device (FSU-10A)."

Haaland also said in his letter, "Terry has been managing the FSU-10A for the past two years. He has been instrumental in implementing the recovery data package, and evaluating and processing changes so that Micronics hardware matches the documentation packages."

"Terry accomplishes his tasks in a timely and professional manner. His unswerving commitment to quality and willingness to contribute has significantly impacted the program. He has made numerous personal sacrifices during the past two



Terry Kuhlman was pleased and shocked to win the award.

years to execute his work responsibilities."

The department head's letter of nomination concluded saying the award was based on "Kuhlman's untiring dedication as a representative of the NAVWPNCEN and as a result of his willingness to serve, teach and promote the high ideals of NWC and engineering practices."

Kuhlman has been a China Laker since August of 1976 and is a program manager in the Phoenix Office. He praised the team effort that went into his winning this special honor. He noted the Phoenix program and the FSU-10A effort was much more than just a single individual doing his part, or even more than his part of the plan.

Schiefer also noted Kuhlman had made many personal sacrifices in past couple of years because of numerous program demands on his time.

VLA development responsible for award to J. Robbins and P. Gattis in Code 32

John Robbins and Phil Gattis were welcomed by a full house in the CLPP cafeteria conference room recently when coworkers of the two Ordnance Systems Department managers assembled for a surprise dual presentation of the Technical Director's Award.

Nominated for major contributions to the Vertical Launch ASROC (VLA) missile development, especially the development of the MK 114 rocket motor, Gattis, and Robbins before him, served in the program's management over the past seven years. The highly successful VLA rocket motor evolved through development, testing and qualification in-house under their leadership. Production of the rocket motor was recently authorized by Congress, contingent on successful operational evaluation.

Nominated for the awards by Matt Anderson, head, Ordnance Systems Department, the

men's achievements were enumerated in a recommendation letter to Gerry Schiefer, former NWC technical director.

According to the letter, Robbins, who acted as the VLA deputy and then principal technical manager from July 82 to October 86, served during "very difficult years for VLA," due to major system changes requested by headquarters. "Robbins did an excellent job in documenting NWC's position on this and many other matters, while continuing to finalize the MK 114 motor design. NWC processed, in-house, approximately 50 motors, most of them during this period," read the letter.

Robbins moved to head the Department's Systems Technology Branch which conducted the environmental and safety qualifications and provided sponsors with documentation on the MK 114 motor design.

Gattis was appointed technical manager in February 89 after working on VLA in the role of interface manager and configuration control manager for six years. According to Anderson, Gattis was largely responsible for the MK 114 having a viable Level 3 data package. He also established a very good working relationship with program management in Washington, providing excellent support in preparation for major program reviews and presentations, and production planning.

Anderson continued, "Phil put major effort into achieving timely completion of the motor environmental qualification, as well as the motor safety qualification and completing the documentation required for the Acquisition Review Board meeting."

(Continued on Page 9)

Area Marines plan gala celebration of the Corps' 214th birthday

When the Second Continental Congress, in session in Philadelphia, resolved that two Battalions of American Marines be enlisted and commissioned to serve for and during the present war

between Great Britain and the colonies, little did they imagine that they were calling for the formation of an elite group of fighting men that would endure, and win many honors, all for a love

of country, freedom, and their fellow man.

This year marks the 214th Birthday of the U.S. Marine Corps. Theirs is a long and proud tradition of honor and glory hard

fought and won in such places and wars as the American Revolution, the Indian Wars, the Civil War, Belleau Wood, Guadalcanal, Iwo Jima, the Pusan Perimeter, (Continued on Page 3)



ADOPT-A-SAILOR THANKSGIVING DAY

China Lakers interested in hosting a sailor or marine for Thanksgiving Day can sign up by calling the Naval Weapons Center's Seafarer Club at 446-6929.

There are many military members at China Lake who will be unable to be with their family for this Thanksgiving Day and the Morale, Welfare and Recreation Division is providing the Seafarer Club as a point of contact for military members and area residents to get together for the holiday.

Military personnel who would like to spend the day with a local family are also asked to call the Seafarer Club at 446-6929, or stop by during normal operating hours to sign up.

Planters welcome

The California Native Plant Society, in conjunction with the California Living Museum, will present the Fourth Annual Native Plant Sale at the California Living Museum, Bakersfield, from 10 a.m. to 4 p.m. on Saturday and Sunday, Nov. 4 and 5.

For more information, call the Native Plant Society at (805) 872-7039.



Weather Report

	Max	Min	Gusts
Thurs.	70	33	6 knots
Fri.	75	31	6 knots
Sat.	68	32	14 knots
Sun.	68	38	11 knots
Mon.	71	27	5 knots
Tues.	70	28	5 knots
Wed.	72	25	8 knots

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China Lake Calendar

Fri.-Sat. Nov. 3-4

...West Side Story, Clota musical production, 7:30 p.m., Burroughs Lecture Center

Sat. Nov. 4

...Saturday matinee, *Lady and the Tramp*, 2 p.m., NWC Theater

Tues. Nov. 7

...Well Animal Clinic, 10 a.m.-1 p.m., call NWC ext. 3252 for reservations

...SAME monthly meeting, 11:30 a.m., Farris' at the Heritage

...FMA luncheon meeting, 11:30 a.m., 707 Ellis St.

...Wellness Program Blood Draw continues through Nov. 17

...4th Annual Apple Technology Showcase, 9 a.m.-3:30 p.m., Seafarer's Club

Thurs. Nov. 9

...U.S. Marine Corps 214th Birthday Ball, Seafarer's Club

Sat. Nov. 11

...Saturday matinee, *Benji the Hunted*, 2 p.m., NWC Theater

Mon.-Tues. Nov. 13-14

...Open Season Health Benefits Fair, 7:30 a.m.-4:30 p.m., Training Center, Rm. 115

Wed. Nov. 15

...SOLE meeting features CALS, 11 a.m. at the Hide-away

Coming attractions:

*Health Insurance Open Season, Nov. 13-Dec 18.

*Community Thanksgiving Service, Nov. 19

Items of interest to the China Lake population may be placed in the CHINA LAKE CALENDAR by calling the NWC Rocketeer at NWC ext. 3354 before 11:30 a.m. on Tuesday before Friday's publication.

Wellness Corner

First challenge met with vitality

The first China Lake Challenge was a great day of activity, comradeship, and well being. Over 350 people of all ages came and participated. Capt. Paul Valovich, NWC Vice Commander, presented the opening statements with flair, enthusiasm, and eloquence.

Many lessons were learned as each event got underway, and the event coordinators and their volunteers handled this new experience with flexibility. Banners, department t-shirts and food booths added to the atmosphere of the day.

It seemed that everyone participating in the aerobics had a Code 32 t-shirt on. People were so anxious to do push ups that they began before the opening ceremonies.

Every time I looked up people were participating in the boffer tournament. The hackey sackers didn't seem to turn out in force and we may need to encourage more to work on eye/foot coordination. People were tossing shoes and softballs even when the rest of the events were through. Many also jumped rope.

"Just for kids" was in the wrong location for optimal participation so next year it will be moved. The obstacle course had a creative twist to it and the tug of war had incredible amounts of energy. The volleyball tournament had 14 teams in it.

The little kids got to do their dashes on the grass and the big kids ran on the track. There were even caterpillar dashes—now that takes team work. The people walk had over 100 people. Two heats were needed for the 1 mile run. In the 440 time predicted event, one person who was walking was only

1/100th of a second off from his predicted time. The relays were exciting and fast. Four departments, 24, 25, 32, 36, participated in the pass the buck relay and they used a real dollar bill.

The Wellness Program Office welcomes your comments and suggestions on how to improve the Challenge for next year. If you are interested in being on the planning committee, we welcome you with open arms.

A big thanks to all of the event coordinators and volunteers—those who worked in the admin center: Jerry and Helen Benes, Marie Gutzman, Jean Amundson, and Loyce Cook; the first aid station: John Vanguilder; and the announcers: Skip and Denise Gorman. Thanks also to Darek Haun of the IWW Swim Team for the loan of starting pistols; Ann Taylor of Ridgecrest City Park and Recreation for the use of stop watches; Gary Charlton and the Burroughs Boosters for the use of their concession stand for the admin center; David Bens of Burroughs High School for the use of jump ropes, a stop watch and batons; and Sierra Sands School District and Don Holmans for the use of the Burroughs Fields.

Several lost items were turned in (a watch, car keys, sports bottle, sweater, child's book) and are available at the Wellness Program Office, Rm. 210 in the Training Center.

The results and standings of the China Lake Challenge will be printed in next week's *Rocketeer*.

Betty Miller

Wellness Program Coordinator

NWC HOTLINE
Integrity, efficiency
program
Call: NWC ext. 3636
(24 hours)

or call the Inspector General at:
(800) 522-3451 (toll free)
288-6743 (Autovon)
(202) 443-6743 (commercial)

Time to get the bugs out

Housing says...Center residents, if your treatment for getting rid of roaches, fleas, ticks, ants and other insects has failed, call the Trouble Desk at NWC ext. 2380. After calling, stop by the Housing Office to sign forms and set up an appointment.



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Ridgecrest, CA 93555 (619) 375-4481



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HAPPY ADS.....10	MISC. FOR SALE.....40
HELP WANTED.....15	GARAGE SALES.....45
RENTALS.....20	PETS & SUPPLIES.....50
BUSINESS.....25	REAL ESTATE.....55

**DEADLINE FOR ALL CLASSIFIED LINE ADS IS 4:30 p.m. WEDNESDAY -
PRIOR TO FRIDAY PUBLICATION**

15 HELP WANTED

BURGER KING is hiring. Openers, Cashiers, Closer. Apply in person. 139 N. China Lake Blvd.

20 RENTALS

2BR, 1BA, Refrig., Stove, W/D hook-up. Extra Roomy. \$440/mo. + Security. Pet O.K. Call 375-6307.

2BR, 2BA, fenced front & backyard. Available Nov. 1. All appliances. Pets O.K. \$470/mo. & Security. 375-6307.

3BR House, 2BA, all appliances, F/P, auto garage dr. opener, fenced front & back yards. Trash/Pest control pd. Pet O.K. \$575/mo. + Security. Call 375-6307.

30 SERVICES

ASPECT WINDOW TINTING - Commercial, residential, autos & specials. Liscensed. 371-2511.

35 AUTOMOTIVE

'85 FORD RANGER STX 4x4. Roll-Bar, stockland fiberglass shell. 38k miles. \$2200/OBO. Call 375-8130.

1988 FORD RANGER XLT 4x4 - KING CAB version. Loaded w/extras. Xint. cond. Low mileage P/U has it all at a FIRM PRICE of \$10,500. Call 446-5667.

35 AUTOMOTIVE

1984 HONDA SABRE V-65, 1100cc, new in 1986. 12,000 mi., very fast, mint cond., shaft drive, maintenance manual. \$2100. Call 446-4843.

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YAMAHA VIRAGO 750 - Really clean. Excellent condition. Brand new tires. \$800 446-2368.

40 MISC. FOR SALE

ENCYCLOPEDIA - THE NEW BOOK OF KNOWLEDGE. 20 volumes \$40. 446-7592.

TWIN BED, NEW CONDITION. \$60. Call 375-9528.

WORN-ONCE: Long Red Dress, size 13-14, \$75; Matching Purse, \$18; Long Gloves, \$15; Long Petticoat, \$30. Call 446-7421.

45 GARAGE SALES

YARD SALE: Sat.-Sun. Starts at 8a.m. 312 Viewig Circle.

50 PETS & SUPPLIES

FREE ADULT DOBERMAN. Loving, loyal dog to good home only! Call 446-6402.

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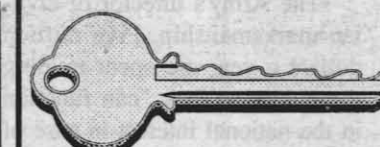
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Sun. Evening 6:00 p.m.
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Adults - Teens - Jr. Program



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The Friday Edition of
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Offers the largest weekly listings of available properties in the Ridgecrest Area.

Low cost blood analysis offered

The NWC Wellness Program is providing all Center employees, attached activities, and active duty military an opportunity for a low cost blood analysis. This will give you a chance to compare

values with your previous test or to establish your blood values. You must abstain from eating any food or drinking anything other than water for 12 hours before the blood draw. The draws will be

from 7 to 9 a.m. on the dates and at the locations listed here. The cost for the analysis is \$16, required at the time of the draw. Make checks payable to MWR-REC.

Appointments may be made on any computer or terminal that will connect you to the SCF VAX (SCFF, SCFB, SCFC). You do not need an account number. When "user name" appears on the screen, type in "Wellness". Options will appear for scheduling or deleting appointments for the blood draw. If you cannot access the SCF Vax terminal, call NWC ext. 2468 and we will help you. If you have further questions call Betty Miller or Pat Oliver at the above extension.

DATE	LOCATION
Nov. 7	•Airfield, Hangar 3, Top Side Training Room (Old Pilots' Lounge)
Nov. 8	•Seafarer's Club •CLPL (contact Judy Schoepflin, NWC ext. 7322 for appt.)
Nov. 9	•PW Aerobic Dance Room •Michelson Lab, Little D Conference Room
Nov. 14	•Michelson Lab, Little D Conference Room
Nov. 15	•Michelson Lab, Little D Conference Room
Nov. 16	•Michelson Lab, Little D Conference Room •CLPL (contact Judy Schoepflin, NWC ext. 7322 for appt.)
Nov. 17	•Michelson Lab, Little D Conference Room

Do you feel as safe in your neighborhood as you do in your own home?

Fred McGillicuddy does. One reason is because his neighbors organized a Neighborhood Watch and a volunteer escort service for Fred and other senior citizens. For more information

on what you can do to help make your neighborhood safer for everybody, write to me, McGruff the Crime Dog, P.O. Box 362, Washington, D.C. 20044. And help me...Take a bite out of crime.



TAKE A BITE OUT OF
CRIME

A message from the Crime Prevention Coalition, the U.S. Department of Justice and the Advertising Council. 1989 National Crime Prevention Council

Center aids employees in paying for education

Early registration for continuing students at Cerro Coso Community College for spring courses will be Nov. 14, 21 and 27 by appointment. Early registration for continuing and new students will be Dec. 4, 12 and 19. Regular registration for continuing students will be Jan. 3, 4, 5 and 8. Regular registration for continuing and new students will be Jan. 9, 10, 11 and 12. Schedules, which should be released by Cerro Coso approximately Nov. 6, will be available in the Training Center lobby.

For those enrolled in courses provided under the NWC/Cerro Coso Contract, the Center will pay full tuition. If it can be shown that courses are job-related or will strengthen the contribution to the Center's mission, tuition will be paid directly to the college by Code 224. NAVWPNCEN 12410/73 (Rev. 12-88) (Request For On-Center Training) must be submitted via department channels to Code 224.

If a course is not directly job-related, along with the NAVWPNCEN 12410/73, submit NAVWPNCEN 12410/66, Academic Enrollment Justification and NAVWPNCEN 12410/68, Individual Development Plan, describing how the course fits into your overall career plan and how attendance at the course will strengthen your contribution to the Center's mission.

Non-California residents submit DD Form 1556 (Request, Authorization, Agreement and Certification of Training and Reimbursement) via department channels to Code 224. A job order number is required on the DD Form 1556.

Code 224 will return the approved NAVWPNCEN 12410/73 or DD Form 1556 to you. Take it to Cerro Coso when registering in order for NWC to pay the tuition.

Co-op Students

Co-op students are not required to submit a NAVWPNCEN 12410/73 or a DD 1556 and should inform the registrar when registering that they are co-op students.

Enrollment Deadline

Requests for tuition support (NAVWPNCEN 12410/73 or DD Form 1556) must be received by Code 224 at least three days prior to the employee's registration at Cerro Coso. This will allow the request to be processed and returned to the employee in time for registration. The approved NAVWPNCEN 12410/73 or DD Form 1556 must be taken to Cerro Coso when registering in order for NWC to pay the tuition. **EMPLOYEES WHO PAY TUITION WILL NOT BE REIMBURSED.** If there are questions, please call Cecil Webb, NWC ext. 2648.

NSTEP positions need to be filled

(Continued from Page 25)

for several NWC efforts including the FMU-139/B, the FMU-140, the DSU-30/B, Advanced Interdiction Weapons Systems (AIWS), Advanced Bomb Family, MK-80 Series PBXN-109 IHE, etc. NWC has project management responsibilities for the development, production engineering support and product improvement responsibilities for the general purpose bomb efforts assigned to the Center. In establishing formal program support to the Conventional Air Launched Ordnance and Ammunition Air Program Coordinator (NAVAIRSYSCOM APC 201) the Center established a Bomb Systems Program Office to coordinate all General Purpose Bomb efforts. The technical advisor assigned will assist in the preparation of budgets, assist in the monitoring of program schedules, progress and expenditures, assist NAVAIR (APC-201) at and below the SYSCOM level, serve as liaison between NAVAIR and NWC, and assist APC 201 as needed.

For more specific info, contact Larry Brauer, Code 35B, NWC

ext. 2940.

4. SOFTWARE ENGINEERING INSTITUTE (SEI), PITTSBURGH, PA

The technical advisor provides direct support to the SEI Joint Program Office. This includes review of SEI program plans, responding to Navy inquiries regarding technology transfer and providing recommendations from a Navy perspective. The technical advisor serves as a member of a project team at the SEI. Project responsibilities may include formulating computer system plans and designs, establishing computer programming requirements and performance, evaluating specifications and designs in terms of technical feasibility and timeliness, coordinating with supporting agencies changes and information pertaining to design, development and test programs and preparing technical reports.

For more specific info, contact Robert Page, Code 3922 NWC ext. 1288.

The deadline for applications is Nov. 24. Apply by a submitting a SF-171 to Code 22 (Jackie or Sandra).

TQM possible despite chaos

How to Thrive on Chaos and Achieve Total Quality Management (24 hours)

Nov. 29-Dec. 1, Wednesday-Friday, 0800-1600, Conference Center. By Roger Kirkham.

Intended Audience: Managers and supervisors.

Scope: The following topics will be covered:

- Facing the need for revolution -- Establishing world-class quality and service.

- Management must become obsessed with quality -- Establishing constancy of purpose.

- You must identify suppliers & customers -- Precisely who do you depend on for your output? Exactly who are your customers?

- Establishing precise understanding of process flow -- TQM focuses continuous improvement within the process flow.

- Improve responsiveness to customers -- Government, business & industry must improve customer responsiveness.

- The importance in management of understanding variation - Important benefits of understanding variation. Decide what needs to be controlled. Operational definitions provide measurable indicators. Understanding when a process is in statistical control. Control charts enable statistical control. Types of control charts. How to use control charts. Problems when implementing statistical quality control. Inspection does not achieve quality.

- Eliminate MBO & work standards - substitute leadership -- Why managing by objectives

doesn't work. Why quotas and work standards don't work. Steps for standardizing working methods.

- Improvement requires change and total quality management.
- Separate the vital few from trivial many: cause & effect -- types of cause-and-effect diagrams. Benefits from using cause-and-effect diagrams.

- Separate the vital few from trivial many: pareto analysis.
- Invest in improvement -- TQM begins and ends with education.

Note: To enroll in this class, submit NAVWPNCEN Form 12410/73 via department channels to Code 224.

Deadline: Nov. 8.

No thanks, I'm driving!

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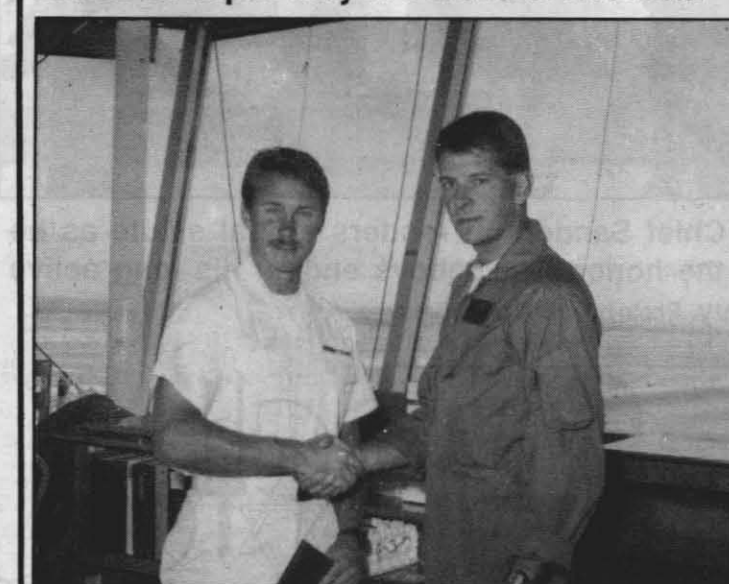
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Reenlistments at China Lake



FAIR SEAS AHEAD--for AE1 Robert McCarthy (right) of the Air Test and Evaluation Squadron Five (VX-5) quality assurance shop. Capt. Eric Vanderpoel, former VX-5 Commanding Officer, reenlisted McCarthy before departing China Lake in September. Looking on is RAdm. Hugh Webster, Commander, OPTEVFOR. McCarthy leaves for Japan duty in 3 months. VX-5 Photo.



FOUR MORE--AC2 Dwight Ball (left) is congratulated by Lt. Jeff Mattox after Petty Officer Ball joined the Navy for another four year hitch.



ANOTHER HITCH--AD3 Eric Wafelt takes oath of enlistment for another six years from Maj. John Rader, USMC. Petty Officer Wafelt works in the Power Plants Shop of Code 61.

Area Marines celebrating 214th birthday of USMC

(Continued from Page 1)

the Chosin Reservoir and Vietnam to name but a few.

In keeping with tradition, the China Lake Marines will celebrate the 214th Birthday of the Marine Corps on Nov. 9 at the Seafarer Club.

Their guest of honor this year will be Major Harold E. (Manny)

Segal, USMC (Ret.), a true Marine Corps Ace with 12 enemy aircraft downed to his credit.

During his career in Naval Aviation from 1942 to 1958, he earned three Distinguished Flying Crosses for heroism and extraordinary achievement. Other personal decorations include a Purple Heart and four air medals.



Changes loom for CHAMPUS mental health outpatient care

Beginning Jan. 1, the management, required reviews and authorizations of CHAMPUS outpatient mental health treatment and some inpatient psychiatric services will be handled by a Washington, D.C. firm which recently won the contract.

CHAMPUS is the Civilian Health and Medical Program of the Uniformed Services.

For the first time under the CHAMPUS mental health care management program, inpatient mental health care can be authorized in advance.

This will protect service families from uncertainty by reassuring them ahead of time that their care will be cost-shared by CHAMPUS.

The new contractor, Health Management Strategies International, Inc. (HMS), will process all requests for advance authorizations for most inpatient mental health care under CHAMPUS, for all care at residential treatment centers (RTCs), for all requests to have CHAMPUS' 60-day yearly limit on inpatient psychiatric care waived, and for authorizations for extended outpatient mental health care.

Over the past several years, the American Psychiatric Association has performed some of these reviews and authorizations or waiver requests. Previously, they were handled at CHAMPUS headquarters in Aurora, Colo.

Despite the advance approval of mental health care by the contractor, CHAMPUS claims processors will still check on the eligibility of persons who submit CHAMPUS claims, and will make sure that the claims meet the usual requirements for completeness and accuracy.



GUEST SPEAKER--Maj. Harold Segal, USMC (Ret.) is the guest speaker this year at China Lake for the Marine Corps Ball celebrating the 214th Birthday of the U.S. Marine Corps.

Commissions available for sailors through ECP

WASH (NNS) -- Sailors who want to become commissioned Naval officers after attending college through the Enlisted Commissioning Program (ECP) now have until Nov. 17 to submit their applications.

Under ECP, top-notch sailors can attend college full time while receiving full base pay and allowances. The cost of tuition, fees, books and other expenses must be paid by the individual. Sailors will be assigned to one of the 84 colleges and universities that host a Naval Reserve Officer Training Corps (NROTC) unit. Sailors are commissioned upon completion of their bachelor's degree program. To be eligible, sailors must have completed at least four years of active duty service by Sept 1 of the year they enroll.

Applicants must also have at least 30 credit hours for technical majors or 45 credit hours for non-technical majors. Eligibility requirements and application procedures are in OPNAVNOTE 1530 of Jun. 12. Applications must be received by Chief of Naval Education and Training, Code N1/ECP, NAS Pensacola, Florida 32508-5100, no later than Nov. 17.

Personnel survey set by Navy

San Diego (NNS)--More than 10,000 randomly selected sailors will receive a survey distributed by the Navy Personnel Research and Development Center as a result of a recommendation from the CNO Study Group's report on Equal Opportunity in the Navy.

Two long careers come to close

In a double ceremony last week, Master Chief Roy D. Snarr and Senior Chief Carl Sanderson retired from active duty in the U.S. Naval Service. Capt. Robert Dropp, Commanding Officer for Enlisted Personnel, and shipmates wished the men "fair winds and following seas" as they embarked to civilian life.

Snarr's 32-year career has taken him across the mainland and to various ports in Japan and Hawaii. Among the decorations and awards won during his service are the Navy Achievement Medal, National Defense Service Medal, Vietnam Air Gallantry Cross, and Navy Rifle and Pistol Expert Medals.

The avionics technician reported to NWC in October 1988 as the Aircraft Intermediate Maintenance Division Officer. He now enters the ranks of the Fleet Reserve.

A letter of appreciation written on the occasion of Snarr's retirement and signed by Capt. Dropp states "During your tour of duty at NWC, you have demonstrated outstanding leadership, loyalty, and superb performance. Your knowledge of naval aviation maintenance has greatly enhanced the Aircraft Department's ability to meet its goals....Your positive, caring demeanor has enhanced military/civilian team work, con-

tributing greatly to the overall mission of the Center." (*Master Chief Snarr's retirement photo is one Page 5*)

Senior Chief Sanderson was commended for his faithful and dedicated service to country and U.S. Navy. He enlisted in October of 1960, served on-board the *USS Essex*, *USS Constellation*, and *USS Oklahoma City* between

stations in the U.S., Japan, Antarctica and Vietnam. The Bronze Star Medal with Combat "V", Navy Commendation Medal with Combat "V", and three Navy Achievement medals are a few of the awards earned during his distinguished career.

In his assignment as Naval Weapons Center's Chief Master-at-Arms, Sanderson's "sustained

exemplary performance contributed significantly to the success of the NWC Master-at-Arms Force." His citation letter continued, "You have demonstrated outstanding leadership and dedication. Your attitude and assistance to DoD and civilian law enforcement agencies has greatly enhanced the military/civilian law enforcement team."



CAREER CHANGE--Senior Chief Sanderson renders a final salute as he and his wife pass through the honorary sideboys ending his long active duty career with the U.S. Navy. Photo by PHAN Cary Brady

Divine Services

Protestant	
Sunday Worship Service, East Wing	8:00 a.m.
Sunday Worship Service, Main Chapel	10:30 a.m.
Sunday School, Annexes 1, 2 & 4	9:00 a.m.
Bible Study (East Wing), Wednesday (September thru June)	11:30 a.m.
Men's Prayer Breakfast, East Wing, Thursday	6:30 a.m.
Officers' Christian Fellowship/Christian Military Fellowships, East Wing, Thursday	7:00 p.m.
Islamic	
Jumaa Prayer (Friday in Annex 4)	12:00 noon
Roman Catholic	
Sunday Mass, Main Chapel	9:00 a.m.
Daily Mass, Small Chapel	11:35 a.m.
Confession (Sunday), Command Chaplain's Office	8:15-8:45 a.m.
Confession By Appointment	Anytime
Religious Education Classes (Sunday) (September thru May), Annexes 1, 2 & 4	10:30 a.m.
Jewish	
Weekly Services (Friday - East Wing)	7:30 p.m.
Adult Hebrew Lessons (Saturday in Annex 4)	9:00-10:00 a.m.
Sabbath School (Saturday in Annex 4)	1:00-4:00 p.m.

Chaplain S. A. Casimano, LCDR, CHC, USN
Chaplain G. L. Goodman, LT, CHC, USNR
Chaplain G. E. Williams, LT, CHC, USNR
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SAME speaker talks about office design

Steve Lissik of the Design Technology Group at Westinghouse Furniture Systems will be the guest speaker at the Society of American Military Engineers (SAME) monthly meeting on Tuesday, Nov. 7, at 11:30 a.m. at Farris' at the Heritage, 1050 N. Norma. A cold buffet lunch will be available for \$7.50 (includes beverage and gratuity).

Lissik will discuss the impact of office design on the quality of work life and productivity--how it can affect employee behavior, attitude, and level of performance; the integration of technology in the workplace and the basic elements of effective office design.

SAME is an international organization open to anyone with an interest in engineering. The local SAME organization meets on the first Tuesday of every month during the lunch hour. For reservations call NWC ext. 3411/283.



"Broken Patterns" is the title of a book written by Fran Tarkenton, the great quarterback of the Minnesota Vikings football team. The title, of course, alludes to his great skill as a "scrambling" quarterback. It often happens that the pattern of an offensive play is broken either by an offensive player's mistake or by the defensive team's penetration; but a good "scrambling" quarterback can use a broken pattern to gain ground.

At one point in the book, Fran Tarkenton writes about one of football's great linebackers, Dick Butkus. He says, "Great players make great plays. They change the course of the game. They demoralize the enemy. Butkus has been painted as a dumb football animal, but nothing could be further from the truth. He is enormously bright and he never, ever gives up." If you take these ideas from this book and put them together, it can help you to see what the Gospel writers are trying to say to us.

God has a beautiful pattern laid out for us. We rebel against it, we break it, but God uses the broken patterns. He redeems them. His Resurrection Power is working in and through the broken patterns of our lives. What we need to do is to experience what God is doing and to identify with it and we must never, ever give up! Never give up on the Gospel Truth that God will win His victory. God will ultimately fulfill his purpose for mankind - for you and me.

By Lt. G.L. Goodman, CHC, USNR

Navy recruits for two-year duty assignments

(Continued from Page 24)

3. **STAFF SPECIALIST, OFFICE OF MUNITIONS (Tactical Warfare Programs) (OUSD (A)):** The staff specialist will be under the immediate supervision of the Director, Office of Munitions, and will participate in the management of munitions Research, Development, and Acquisition (RD&A); the Planning, Programming, and Budgeting System (PPBS); and support activities related to the Munitions Council. Duties include formulating and/or reviewing the various documents prepared during the PPBS and acquisition process. The staff specialist will work with various members of the staff of the Office of Munitions in carrying out these functions, and will participate in communicating the results to the other elements of OUSD (A), OSD, and the Services.

For further info, contact James Bryant, Code 3205B, NWC ext. 7206.

4. **Chief of Naval Operations (OP 502):** Supports the Office in developing, reviewing, or revising operational requirements for all Navy and Marine air-launched weapons and ordnance. Supports the Office in developing and managing the Navy and Marine budgets used to execute the development, production and logistics programs for air-launched weapons and ordnance. Assists in reviewing Government and industrial technology base efforts and developments and proposed applications of new technologies. Provides technical liaison between OPNAV and NWC as required.

The objective of the assignments are to expand the incumbent's knowledge and understanding of the Navy's PPBS, acquisition system, and experience in various areas of new technology.

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It will also expand and strengthen the incumbent's knowledge of the Navy's organization and how it works to define and procure weapons and ordnance systems to meet various mission phases.

For more specific information, contact Wayne Gunther, Code 35B5, NWC ext. 7565 or Tex Hoppus, Code 3522, NWC ext. 3080.

5. **Chief of Naval Operations (OP-0987):** The participant will be assigned a variety of duties planned to broaden his/her perspective of Navy and DoD technology assessment, development and transition. This includes exposure to technology base management, strategies, defense policies, planning, and the budgeting process. The participant will be involved in long range planning, the Balanced Technology Initiative Program and Advanced Technology Demonstrations. Participant will have direct interface with senior personnel in OSD (OUSD (R&AT), other DoD agencies, OPNAV, all SYSCOMS, ONT, and industry.

Participates in strategic planning through activities such as TRAM update, technology base guidance, war games, fleet exercise results, etc. In addition, assists in managing the execution of high payoff/high risk R&D projects that support air, surface and subsurface platforms in priority warfare areas. Includes selection process for new FY starts

and support of Navy proposals in multi-agency competition.

For more specific info, contact Frank Markarian, Code 3246, NWC ext. 7395 or 7263.

6. **SPAWAR 11-6 DA-3 OR DP-3, Series- 501, 506, 510, 560, or anyone who can meet the X-118 qualifications for the 500 series listed.**

Assist in the preparation of guidance and instruction to the SPAWAR R&D Centers for preparation of the NIF budget, review and analyze and makes recommendations on NIF budget estimates and justification submitted by R&D Centers, analyzes NIF execution in comparison to the NIF budget plan, and determines variances from the plan, prepares recommendations for remedial action where appropriate. Assists in analyzing monthly and quarterly financial reports, assists in preparing and analyzing the audiovisual, POL, and base operating support exhibits, ACP budget exhibits, DoD R&D in-house report, internal DNL financial reports, etc.

All of the above assignments are designed to give the participant a working knowledge of DNL and SPAWAR Comptroller management policies and operations. Participant will become familiar with the SPAWAR R&D centers' assigned mission areas, resource capabilities, and management organizations.

For more specific info, contact

Linda Long, Code 2834, NWC ext. 3808.

TECHNICAL ADVISOR POSITIONS:

1. **NAVAL STRIKE WARFARE CENTER, Fallon, Nevada**

Tactics development and analysis. TACTS data analysis. Planning and analysis for CNO-080 (major defense suppression exercise).

Electronic warfare integration. Hardware design and development and range installation. POM evaluation. Broad based weapon experience, knowledge of programmatic issues and ability to define specific technical capability required. Provides technical alternatives and develops quantitative technical data to substantiate an operational need (must not be a salesman for specific concepts.) A TOP SECRET CLEARANCE IS MANDATORY.

For more specific info, contact Larry Prince, Code 623, NWC ext. 6400.

2. **NAVAL AIR SYSTEMS COMMAND (PMA 259)**

PMA 259 has the program responsibility for several major missile programs, including Sparrow, Sidewinder, Phoenix and AAAM. NWC has project management responsibilities for the development, production engineering support and product improvement responsibilities for these weapon systems. The technical advisor assigned to PMA-259 will assist in the preparation of budgets; monitoring of program schedules, progress and expenditures, program development and briefings to SYSCOM and OPNAV codes; serves as liaison between NAVAIR and NWC; and will assist NAVAIR staff as needed.

For more specific info, contact Bill Boatright, Code 39B, NWC ext. 3002.

3. **NAVAL AIR SYSTEMS COMMAND PMA 201**

NAVAIR APC-201 has program management responsibility (Continued on Page 26)

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NSTEP posts available**Participants wanted for long-term assignments**

The Center desires to participate in the following off-center assignments in 1990. Starting dates for these assignments will vary from July to September. These assignments are being advertised at this time so that selections can be made by January to allow time to plan for the employee's absence from the Center for one year.

Only DP-3s and DP-4s with a minimum of 3 to 5 years qualifying for these series 801, 830, 855, 861, 1310, 1550, and 1520 are eligible to apply. The one exception to this is the position listed under SPAWAR 11-6.

LOCATION: All positions are located in the Washington D.C. area with the exception of the Naval Strike Warfare Center, Fallon, Nevada and SEI Carnegie Mellon University, Pittsburgh, PA Technical Advisor positions.

NSTEP POSITIONS:

1. **SPAWAR 31-F:** Provides technical support to SPAWAR for the development of the CVBF architecture and to serve as liaison between SPAWAR and NWC to ensure that our inputs regarding the Strike/ASUW architecture development are represented and included in the battle force-level architecture. Duties include supporting the development of the methodology of transforming top level warfare requirements into multi-warfare architectural concepts, providing analysis in the integration of various architectural concepts, and supporting a team within SPAWAR 30 to develop a coordinated multi-center effort to conduct the overall analysis required in this architectural effort.

For more specific information, contact Larry Lincicum in Code 308, NWC ext. 2701.

2. **STAFF ASSISTANT:** Air Warfare, (Tactical Warfare Programs) OUSD (Acquisition) (OUSD (a)): Performs a variety of duties as a Staff Assistant in the Office of the Under Secretary of Defense (Acquisition) (OUSD(A)) in order to gain a broader perspective of the issues involved in research and development of tactical mission areas, related programs, and the planning and management of resources of the DoD. Incumbent will have responsibility for studies and evaluations related to tactical warfare of high national importance and participate in management of a portion of the planning, programming, and budgeting system (PPBS). Normal day-to-day duties include planning, evaluating and analysis in one or more of the tactical warfare R&E mission/system areas such as: close air support, battlefield interdiction, deep strike, naval strike, defense suppression and air superiority. Will also include preparation or review of Defense Studies, Mission/system Area analyses, Decision Coordinating Papers, the various documents in the DoD PPBS, and statements and testimony to the Congress. Will work with various members of the staff of the OUSD and maintain liaison with officials in the military departments, other components of OUSD, and various contractors.

For more specific information, contact Paul Coughlin, Code 3622, NWC ext. 3483.

(Continued on Page 25)

Bakersfield presents courses

(Continued from Page 23)

SOC 405: Technology and Society (5 quarter units)

Jan. 8-Mar 26; Mondays, 1610-2110; Training Center. By Professor Travis.

Scope: This course examines the reciprocal relationship between technology and society, emphasizing the manner in which technological changes alter basic social institutions, including the family, religion, the military, and even science itself. Special attention is given to the positive and negative impacts of technology on the individual and the dilemmas posed by the creation of a technology dependent economy. Requires intensive writing.

Note: This course satisfies General Education Goal XIII for CSUB students.

PSYCH 602: Seminar in Organizational Psychology (5 quarter units)

Jan 11-Mar 15; Thursdays, 1610-2110; Training Center. By Professor Sasaki, CSUB.

Scope: Examination and application of theories and concepts

pertaining to the behavior of individuals in contemporary work organizations. Deals with those factors which affect positively and negatively the ability of individuals and groups of individuals to work effectively within the structure and climate of complex organizations. Topics deal with issues associated with individual values, beliefs, attitudes and expectations as they affect the management processes, including leadership, decision-making, and communication.

Note: This is a core course for the master's degree program in administration through CSUB.

MATH 477: Experimental Design and Statistical Analysis (5 quarter units)

Jan 8-Mar 16; Monday thru Friday, 1130-1230, four hours lecture per week and one hour computer lab per week; Training Center. By Mr. Ron Merritt, NWC ext. 4652.

Prerequisite: Elementary Probability and Statistics is required, or consent of instructor.

Scope: Statistical inference using fixed, random mixed and split-plot models. Other topics include multiple and polynomial regression, analysis of covariance and use of computers in statistical analysis.

Note: CSUN systems engineering students who have not had IE 501: Engineering Statistics or equivalent and who have not had an undergraduate course in Probability and Statistics are encouraged to take this course.

General Comments

1. Textbooks are available at bookstores locally.

2. Job-related courses other than those listed above or those offered under contract with Cal-State, Chico, Cal-State, Bakersfield, or Cal-State, Northridge, must be approved on an off-Center Training Request (DD Form 1556) before registration if NWC is expected to pay for the training.

For more information about these programs or classes, contact Cecil Webb, NWC ext. 2648.

Dr. Madrigal visits Center

Dr. Orlando Madrigal of Cal-State University Chico will be on-Center Nov. 20 to advise current and prospective students in the external degree programs offered by the school.

Cal-State University Chico has external degree programs in Computer Science which lead to bachelor's and master's degrees.

Those who wish to see Dr. Madrigal are asked to make an appointment by telephoning Helen Benes, NWC ext. 2648.

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THIRTY-TWO YEARS-- Last week the long and distinguished Naval career of Master Chief Roy D. Snarr took a new twist as he transitioned to the Fleet Reserve by retiring from active duty. The veteran master chief has been at China Lake since October of 1988. He had a few words of parting wisdom for the sailors and fellow workers on hand for the retirement ceremony in front of the NWC Headquarters Building.

Photo by PHAN Cary Brady

Moisture remains scant

Cool, dry weather continued through September at the Naval Weapons Center. Daily temperatures averaged 1.1 degrees and rainfall was 0.26 inches below normal.

High pressure was the dominant weather feature during the first and last week of the month. During the middle part of the month, unsettled weather pre-

vailed. An upper level trough of low pressure moved through the area on the 11th and by the 15th, clouds from the remains of tropical storm Octave spread across the region. Low pressure was offshore the western U.S. and Octave tracked north and merged with an upper level system off the California coast. This system began to influence our weather

on the 16th and continued through the 19th.

First seasonal snowfall was noted on the higher mountains above 9,000 feet on the 17th and hail was reported in the Coso mountains on the 19th. Rainfall was reported in the valley on the 16th, 17th and 19th.

Surface winds were strong and gusty on five days of the month.

NWC Mac Users Group urges showcase attendance Tuesday

In lieu of the November meeting of the NWC Macintosh Users Group (MUG), members are encouraged to attend the 4th Annual Apple Technology Showcase, to be held on Tuesday, Nov. 7, from 9 a.m. to 3:30 p.m. at the Seafarers Club (former EM Club) on Blandy Ave.

MUG handouts available at the Showcase will include the November issue of the MUG Newsletter, edited by Ruth McIntire, Code 385. The next regularly scheduled meeting of the MUG will be on Monday, Dec. 4. The program, on useful electronic forms data, is coordinated by Naomi Norris.

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Scrap glass headed for recycling center**MIPI keeps broken material out of the dump**

At one time or another, we have all saved our bottles, cans and newspapers and have turned them in to one of the recycling centers around town. Many of us have continued the practice, not because it fattens our purse (although the spare change in the bottom of our pockets does feel good), but because we are becoming more and more aware, as a community, of the need to deposit as little waste material as possible in our designated landfills. The process of recycling materials and by-products of day-to-day purchasing and consumption gives each one of us an opportunity to be involved in the enormous effort of cleaning up our environment and making maximum use of our natural resources.

While we all think about the subject of recycling reusable materials, only a few of us actually take the subject beyond the talking stage. We discuss it with our friends and co-workers, but that's about as far as it goes for most of us; but not for all of us. Meet John Riise (Code 26424); he's the MIP'er who originated the MIPI covered in this week's MIPI article.

Riise is NWC's glazier; you know, the fellow that's been in your working space to replace a broken window or a glass desktop plate. Well, he began to think about all the broken plate glass and glass scrap that was being thrown away on a daily basis. Why wasn't it being collected and periodically sent to a recycling center rather than being tossed in the dumpster for deposit in the landfill?

"Three cents a pound for glass may not seem to be worth the effort," Riise said, "for a person or family to bother with, but the subject becomes much more interesting when the family is NWC." Riise's MIPI was immediately championed by the Public Works Officer. The order was given to begin collecting and recycling NWC's scrap glass; no longer will it be carted off to the dump.

Thanks John for taking the time to MIP with us; we look forward to receiving more outstanding MIPIs from you.

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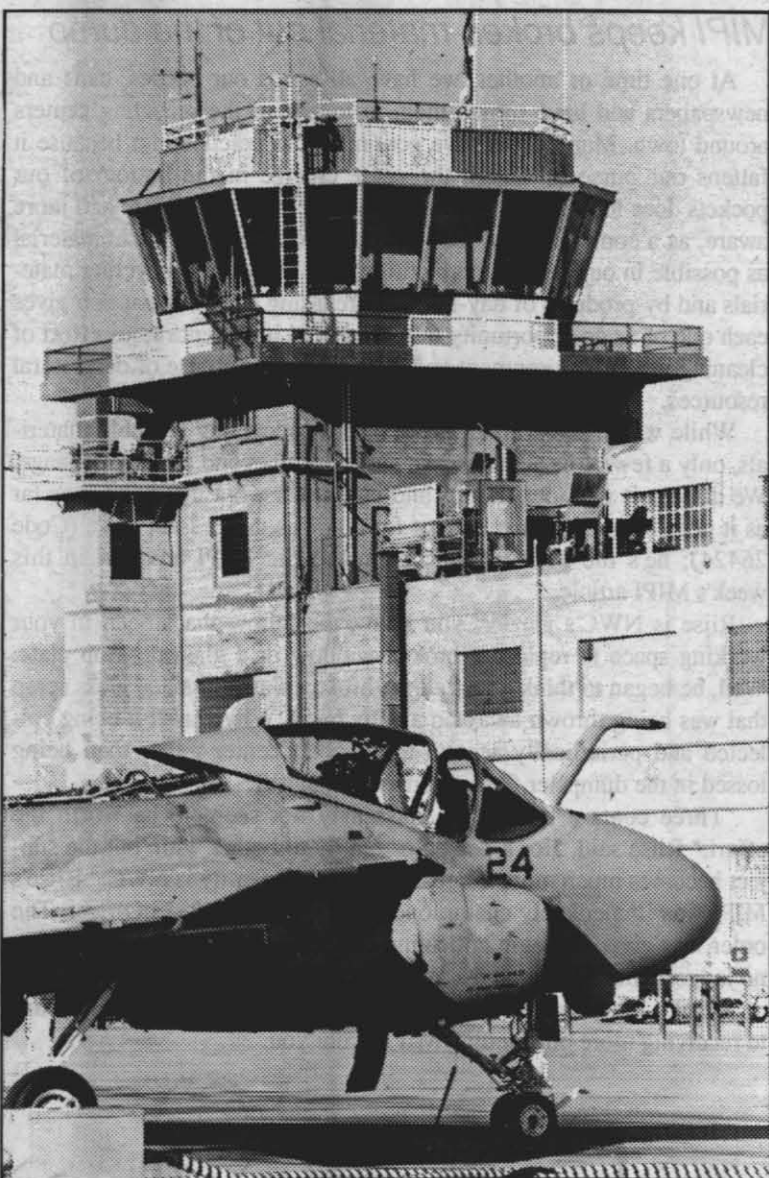
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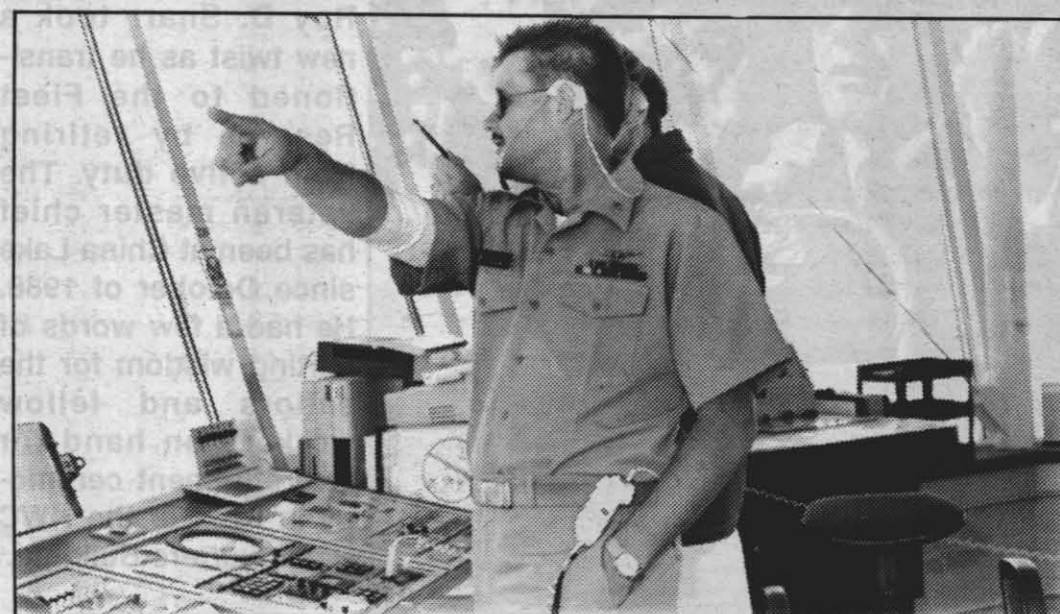


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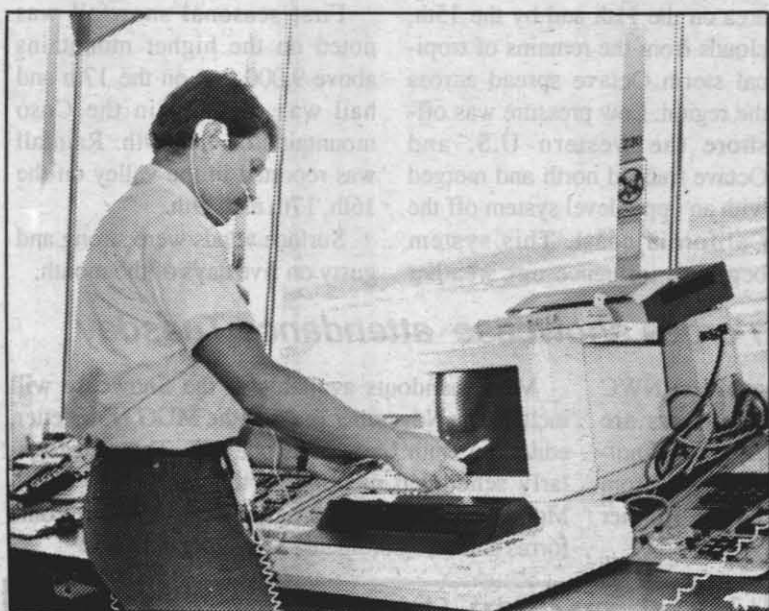


CONTROL TOWER--One of the tallest structures at China Lake, the tower rises above Hangar 2, home to Air Test and Evaluation Squadron Five. From this vantage point controllers are responsible for ground traffic using the runways and taxiways at Armitage Field as well as incoming and outbound aircraft.

PHOTOS BY PHAN CARY BRADY



THIS WAY--ACC Rick Adams, day supervisor in the Naval Weapons Center's control tower, gives instructions to a controller in training recently. Chief Adams said the sudden change of range status to a "hot" area helps make the job of NWC controllers different from any other in the Navy. "When the ranges go hot, our usable airspace shrinks and no traffic is allowed through certain areas," he added.



INFORMATION--AC2 AC2 Dwight Ball checks a computer terminal for a flight data strip. This gives the controller information on aircraft in the area flying under IFR rules.

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CSUB publishes winter schedule

The following classes are being offered this winter for the Cal-State University, Bakersfield (CSUB), bachelor's degree in business administration and the master's degree in administration programs. To enroll in these classes, submit an On-Center Training Request and Authorization Form (NAVWPNCEN 12410/73) via department channels to Code 224. Registration will be held at the first class meeting. *Deadline for enrolling is 10 calendar days before the starting date of the class.*

MGT 301: Quantitative Methods for Business Decisions (5 quarter units)

Jan. 11-Mar. 15; Thursdays, 1610-2110; Training Center. By Professor Vigen, CSUB, (805) 664-2326.

Prerequisite: Math 20: Basic Functions and Calculus For Business, and Math 22: Elementary Probability and Statistics, or equivalent, or consent of instructor.

Scope: An introduction to the application of quantitative methods and information systems, including computer applications in business and industry. Information processing, allocation of resources, network analysis, and inventory planning are among the models examined as they relate to the management decision-making process.

Note: This is a core course for the bachelor degree program in business administration through CSUB.

ADMIN 477: Types, Applications and Structuring of Contracts (5 quarter units)

Jan. 10-Mar. 14; Wednesdays, 1610-2110; Training Center. By Martha Slayton, NWC ext. 2987.

Scope: Review of various types and forms of government contracts. Will include a brief look at how the various types of government, i.e., city, state and federal, conduct procurement and types of contracts used. This will include choice of type of contract considering the statement of work and potential risk, how the various types of contracts work, how to structure the different types of contracts and how to consider contract administration when structuring a contract. Different contract types will include incentive and award fee contracts.

Note: This course satisfies a business elective for the bachelor's degree program in business administration through CSUB. The course also serves as an elective in the upcoming UCSB Government Contract Administration Program scheduled to begin April.

(Continued on Page 24)

Annual leave hours still needed

Employees indicated below have been approved to become leave recipients under the Leave Transfer Program. These employees have exhausted annual and/or sick leave because of personal emergencies and will be in a non-pay status for at least ten days. Employees who wish to donate annual leave to the employee should fill out the form at the end of this column, clip it out and send it to Code 221. For more information about this program, call NWC ext. 2018.

Beverly Parsons, Purchasing Agent, Code 257 -- received severe neck injuries in a car accident and will be unable to return to work until late November. She is indebted for leave.

George Petty, Physicist, Code 3924 -- was admitted to the Duke University Hospital on an emergency basis with the diagnosis of acute myelogenous leukemia.

Polly Bainbridge, Secretary, Code 3922 -- is currently undergoing medical treatment and is indebted for leave. Her doctor estimates she will not be able to return to work until Jan. 2.

Kimberly Sorensen, Secretary, Code 2842 -- developed kidney failure and has been undergoing Hemodialysis three times a week at Loma Linda. She is also receiving Peritoneal Dialysis.

Mary Eddins, Configura-

tion Manager, Code 2732 -- received neck and back injuries in an automobile accident. She is now back to work part-time, but is indebted for leave.

William Eastman, Clerk Typist, Code 2851 -- has undergone back surgery to remove disk material from his spine.

John Hill, Engineering Data Management Specialist, Code 3654 -- suffered from chronic anemia and gastrointestinal complications which caused him to be on extended leave. He is indebted for over 130 hours of leave.

Debra Campbell, Administrative Assistant, Code 2803 -- is recovering from complications

due to pregnancy and childbirth. **Mike Mason, Mechanical Engineering Technician, Code 3526** -- is continuing to receive chemotherapy treatments at UCLA for his long-term illness. He is able to work intermittently between treatments.

Michael Phillips, Student Trainee (Computer Scientist), Code 2803 -- has had repeated surgeries for recurring tumors of the knee, which have led to two replacements of the knee joint.

Melody R. Reymond, Budget Analyst, Code 2836 -- who under went emergency surgery and was unable to work from mid-February until late April is indebted for leave.

Sarah Polak recently passed away from cancer. Her code (Code 35) would like to express their sincere appreciation to all Center employees for their continuous support of Sarah throughout her battle with cancer. Thank you.

Leave Donation Form Complete and send to Code 221

From: _____

Code: _____

I wish to donate _____ hours of my annual leave to: _____

I have attached a copy of my last leave and earning statement.

Signature _____ Date _____

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Promotional opportunities

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

Eligible spouses (of military sponsors) with competitive employment status may apply for employment preference. Those enrolled in this program will automatically receive consideration for employment on vacancies for which they applied. For initial employment information, career counseling and enrollment, call 939-3317 for an appointment.

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

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

No. 22-022, Personnel Management Specialist/Personnel Staffing Specialist, DA/DP-201/212-3, Code 22502 - PROFESSIONAL RECRUITMENT COORDINATOR. The incumbent coordinates the Junior Professional Program for entry-level scientists and engineers, manages college recruitment program for technical and administrative positions, works directly with supervisors to identify staffing needs and recruitment sources. Incumbent is responsible for procurement of paid advertising. Incumbent co-chairs the Junior Professional Selection Panel and the Junior Professional Development Committee and manages the cooperative education program. Position requires regular travel. Incumbent deals with all levels of management and makes presentations. Incumbent serves as work leader for office staff. Must be able to obtain and maintain a secret clearance. **Job Relevant Criteria:** Knowledge of federal

personnel regulations; demonstrated support of affirmative employment programs; ability to deal with personnel at all levels; ability to communicate orally including presentation skills and interviewing; ability to communicate in writing. Promotion potential to DP-3, but not guaranteed. It is suggested that applicants attach a separate document addressing the job relevant criteria. Status eligibles may apply.

No. 24-041, Electronics/Computer Engineering Technician, DT-856/802-2/3, Code 2408. This position is located in the Safety and Security Department, Computer Security Office. Incumbent is responsible for administering the NWC TEMPEST Program. Incumbent will assist in ensuring adequate security policy and procedures for all Center computer office information and network systems. Background in computer security and technical experience in computer hardware or electronics is desirable. **Job Rel-**

evant Criteria: Knowledge of TEMPEST regulations, electronic circuit design, signal processing, FCC Part J or similar programs; ability to research, interpret and implement written instructions; ability to work well with personnel at all levels; ability to communicate in writing; ability to communicate orally. Status eligibles may apply. Promotion potential DT-3.

No. 28-067, Fiscal Accounting Clerk, DG-503-A/1/2, Code 2855. This position is located in the Disbursing Branch of the Customer Services Division, Office of the Comptroller. Incumbent will be responsible for, under the direction of the Disbursing Officer, validation and disbursement of civilian payrolls, travel advances and claims, vendor payments, public vouchers, deposits, and collections. **Job relevant criteria:** Knowledge of Navy Industrial Fund accounting principles; knowledge of Joint Travel Regulations; knowledge of Document Entry System; knowledge of Integrated Disbursing and Accounting System. Ability to work under pressure; ability to work with changing priorities. Promotion potential to DG-3.

No. 27-024, Clerk (Typing), DG-303-2, Code 2732. The incumbent will provide clerical support to the Information Management Division, Information Systems Group. Duties will include typing, processing travel orders, and assisting the senior secretary in supporting the Division's mission. **Job Relevant Criteria:** Knowledge and experience with the Macintosh computer; ability to follow directions; ability to perform receptionist and telephone duties. Position is at the full performance level.

No. 36-066, Engineering Data Management Specialist, DS-301-1, Code 3654 (multiple vacancies). These positions are located in the Configuration Management and Data Management Branch 2, Technical Data Division, Engineering Department. Incumbent will plan, program, implement and monitor the acquisition of the technical documentation required throughout the life cycle of a weapon system. **Job Relevant Criteria:** Knowledge of configuration and data management, governing standards, directives and specifications; ability to read, comprehend and apply written material; ability to communicate orally and in writing. Promotion potential to DS-3; however, promotion is not guaranteed.

No. 36-067, Supervisory Engineering Data Management Specialist, DS-301-3, Code 36545. This position is for a section head in the Configuration Management and Data Management Branch 2. Incumbent supervises a group of Engineering Data Management Specialists in the Systems Support Section and provides configuration and data management support to major programs. **Job Relevant Criteria:** Knowledge of and a willingness to support NWC EEO policies and goals; knowledge of Center instructions regarding documentation policy; knowledge of the acquisition cycle so that appropriate documentation requirements can be implemented at each phase of the system life cycle; ability to provide technical direction to subordinates in documentation quality and requirements; ability to provide guidance and assistance to contractors regarding configuration and data management; ability to supervise a diverse work group. Incumbent may be required to serve a one-year supervisory

probationary period. Promotion potential to DP-3 however promotion is not guaranteed.

No. 39-094, Interdisciplinary, (General/Mechanical/Electrical/Electronics/Aerospace Engineer/Physical Scientist/Physicist), DP-801/830/850/855/861/1301/1310-3/4, Code 39B3. This position is in the MHIP Project Office, Intercept Weapons Department. The incumbent will provide systems engineering support to the program; will serve as a Technical Advisor and principal member of the Project Management team, providing technical direction, integration, and coordination efforts for the MHIP Common Seeker; will analyze IR/RF Seeker Sys-

tems for performance characterization, development requirements and failure analysis; reviews contractor activities for technical performance in development areas. **Job Relevant Criteria:** Knowledge of IR and RF Seeker Sensors Systems; knowledge of design/test/production support of IR/RF Systems; knowledge of production and DOD contracting processes; ability to interface effectively with management and contractors; ability to lead and communicate effectively orally and in writing. Previous experience in full scale development is desirable. Incumbent must be able to obtain and maintain a top secret clearance. Promotion potential to DP-4, but not guaranteed.

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 applications 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. 36-068 Interdisciplinary (General/Mechanical/Electrical/Electronics/Aerospace/Industrial Engineer/Physicist/Mathematician), DP-801/830/850/855/861/896/1310/1520-3, Code 36A1. This position is located in the Siderwind Production Office. Incumbent will act as project manager specializing in the Siderwind Guidance Control System (GCS). Incumbent will be involved in coordinating the efforts of the two GCS contractors. This includes, but is not limited to, the coordinating of ECP's; commu-

nication with contractors regarding interpretation of government drawings, specifications, test procedures, and the review and reporting to NAVAIR/Contractor on the adequacy of production program plans, vendor qualification test plans, reliability program plans, lot acceptance reports, and other data specified in the respective contracts. Incumbent will coordinate efforts of NWC support disciplines (i.e., product assurance, design/technical, etc.). Submit current SF-171 to Gil Cornell, Code 36A1 NWC ext. 3784.

Secretarial opportunities

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

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

Unless otherwise indicated, applicants for branch secretary will be rated on elements 1/2/3/5/8; division secretary applicants will be rated on elements 1/2/3/4/5/8/9; Program Office secretary applicants will be rated on elements 1/2/3/4/5/8/9; and department secretary applications will be rated on elements 4/7/8/9. A SUPPLEMENTAL FORM IS REQUIRED AND MAY BE OBTAINED IN ROOM 100 OF THE PERSONNEL BUILDING.

No. 39-093, Secretary (Typing), DG-318-1/2, Code 3922. This position is located in the Missile Software Branch, Concept Development Division, Intercept Weapons Department. The incumbent

provides secretarial support to the branch. Experience with the Zenith PC desirable, but not required. Promotion potential to DG-2, but not guaranteed.

Since Nov. 10 is a holiday, the **NWC Rocketeer** will be delivered on Thursday morning next week. Articles to be run in that edition should be turned in to the Rocketeer Office by Monday, Nov. 6

China Lake air traffic depends on skilled Navy controllers at Armitage Field's tower

In any given week, a typical air traffic controller at the Naval Weapons Center will be on duty 48 to 64 hours. Although some people might think this a lot of hours, the China Lake ACs enjoy their work and the challenge it presents.

Most of the time three people are on duty in the tower, located in Hangar 2, and control air traffic into and out of Armitage Field.

One AC acts as local air controller while another is a ground controller at the airfield. The shift supervisor coordinates the efforts and is responsible for pilot briefings.

China Lake duty for the ACs is unique because NWC ranges can go "hot" meaning limits on air traffic. The ACs need to keep on top of range usage throughout the day as well as knowing where their aircraft are.

Still another duty is knowing the ordnance load, if any, in order to keep loaded aircraft out of certain areas.

The controllers, led by ACC Leon Hillewaert, look forward to planned equipment improvements, seen as a means to improved service, as they continue to perform these unique NWC jobs.

by PHAN Cary Brady



COMMUNICATIONS--ACC Kim Rusk keeps in touch with flight support personnel who will be crossing NWC's runways or taxiways.

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Naval Weapons Center 4th Embedded Computing Technology Symposium

Embedded Applications
Session Chair - Jim Dorrell - Code 3922 - x1289
Monday 6th of November
Michelson Lab 1000D

0800-0810 Introductions/Updates

0810-0840 A Real-Time Clock for Ada
Robert Page Code 3922

A time management coprocessor is proposed to remove the need for software to update the real-time clock, manage various scheduling queues, and scheduling tasks.

0840-0910 KC-135 Table Top Navigator
Trainer Robert Ardrey CTA

0910-0940 EWTES GRIM - generic radar
Bradley Ennen Code 6444

0940-0955 Break

0955-1025 Human Factors - AI in Attack Mode
Daniel Husk CSC

A presentation of the Intelligent Air Attack System (IAAS), how it is tailored for each mission, and the task management function. A short video tape will be presented.

1025-1055 Software Development for Multi-Spectrum
Warren Littleton Code 3922

The efforts involved in the development of software for a demonstration missile project involving multi-spectrum sensors, data fusion and attempts to use Ada.

1055-1125 Aircraft Ballistic Fire Control for Multiple Bomb
Robert Berry Code 3196

The AV8B VTOL aircraft presents a unique problem for 'stick' bombing; a description is presented on the development of the perturbation equations and fine tuning of the separation velocity to flight test data.

NASEE Tools
Session Chair - Bob Westbrook
Code 31C - x5775
Tuesday 7th of November
Michelson Lab 1000D

0800-0805 Introductions/Updates

0805-0835 NASEE Update and Status
Bob Westbrook Code 31C

0835-1130 Technical papers on NASEE tools

Officers Club

1300-1630 Tool Vendor demonstrations

Post Deployment Software Support
Session Chair - Dick Nuckles
Code 31C - x4805
Wednesday 8th of November
Michelson Lab 1000D

0800-0805 Introductions/Updates

0805-8015 PDSS Overview Dick Nuckles Code 31C

0815-0915 PDSS in Code 319 Lynn Satterthwaite Code 319

A review of current activities to improve PDSS productivity and quality.

0915-0945 F-18 PDSS Charles Bechtel Code 3195

The F-18 WSSA PDSS software support environment will be reviewed.

1000-1045 The AV-8B Maintenance Lifecycle Marianna Loda Code 3193

Maintenance, modification, and testing of the AV-8B Operational Flight Program (OFP).

1045-1115 Access to Maintenance Information Dale Haan CSC

Procedures for identifying, organizing, and accessing system software, hardware, and operational employment information to improve the quality of software maintenance.

1115-1200 Weapon Delivery Accuracy
Dan Feldman Code 3192

The A-6 Weapon Delivery Accuracy Database contains cockpit recorder, range tracking, and weapon impact data. The database is used for weapon delivery system analysis.

Michelson Lab Management Center

1300-1330 A-6 Software Safety Analysis
Scott Smith Code 3192

A review of the current A-6E approach to Software Safety.

1330-1400 Information Retrieval and Software Maintenance

Norm Hines Martin Marietta

This presentation is a review of information retrieval techniques and their application to software maintenance.

Super Computing
Session Chair -
Jack Van Wieren Code 2721

Thursday, November 9
Michelson Lab 1000D

0800-0900 Supercomputing at NWC
Roy Boswell Code 2722

An overview of NWC's new supercomputing facilities, capabilities and plans will be presented, along with information on how to get connected.

0900-0945 Tools for Scientific Visualization
Bruce Lowry

Code 2721

State-of-the-art hardware and software now available for graphical output from the Cray and other scientific computers will be described and demonstrated.

1000-1025 Workstation Connectivity
Ron Backman Code 2721

Communication protocols and various approaches to distributed processing have been tested in the Visualization Laboratory.
1025-1110 Computer Image Generation for Imaging

Missile Simulations
Jon Harris Code 3912

An ongoing project will be described which will use the Cray for image generation and high speed network communication to a Pixar to develop a hardware-in-the-loop simulation for imaging seekers.

1110-1130 Accurate Missile Radar Fuze Modeling

Grant LaBarre Code 3913

Studies were performed of the applicability of a GTD (Geometric Theory of Diffraction) code for modeling RF signatures for complex targets.

Michelson Lab Management Center

1300-1320 Expanding RCS Prediction Capability
Helen Wang

Extensive benchmarking and code development work has been performed to develop a capability for modeling radar cross section (RCS).

1320-1350 Multi-Fragment SDT Effects

J. C. Schulz and O. E. R. Heimdahl
Code 3894

A 2-D Eulerian

hydrocode incorporating a Forest Fire reaction rate model was used to examine theoretically the effects of multiple fragment impacts on the SDT (shock-to-detonation-transition) threshold for cased munitions.

1350-1410 Oblique Warhead Impact Modeling
O. E. R. Heimdahl and J. C. Schulz, code 3894

A new technique was successfully tested for modeling oblique incidence impacts in warhead structural response analysis utilizing a 3-D Lagrangian hydrocode.

1410-1440 Pattern Recognition of Nitro Explosives
Alice Harper Code 3851

Semi-empirical molecular modeling techniques are used to study the relationship between the structure of nitro-containing explosives and their properties.

1455-1520 Effective Medium Theory
Carey Schwartz, Code 3813

Effective Medium Theory (EMT) has been used to calculate the interaction potential and thermodynamic quantities of H₂ with the MgO (001) surface.

1520-1540 Codes for Computational Aerothermodynamics
Doug Blanchard

Several codes will be described which have been obtained to model thermal effects using a full 3-D Navier-Stokes fluid model, and some test results are reported.

1540-1600 Reduced Plume Signature Modeling
M. J. Lee Code 3892

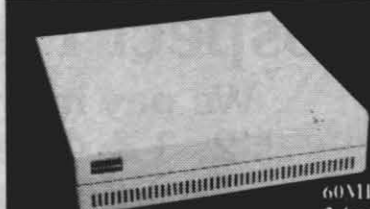
Results are reported from an ongoing effort to develop an accurate code for modeling RF returns from plume.

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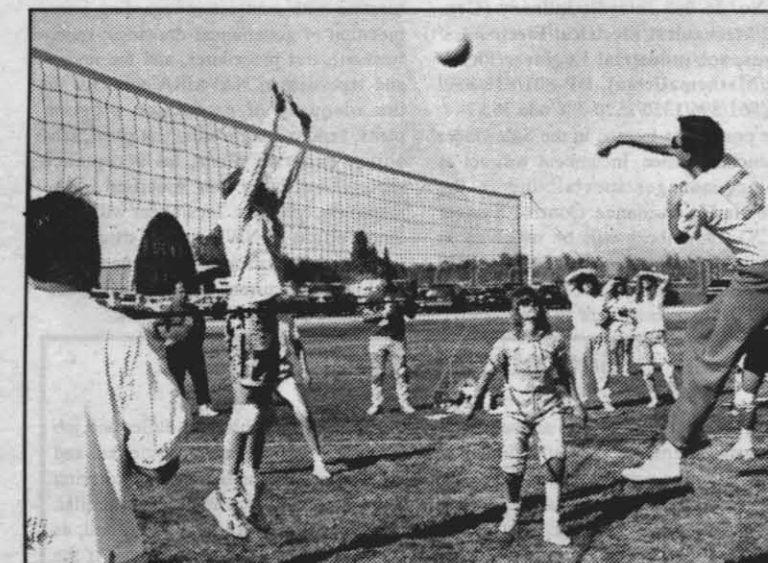
Retired NWC

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Center workers, families gather to answer China Lake Challenge



FAMILY AFFAIR--(Above) Even children of workers at NWC got into the act. Some even started their push ups before the opening ceremonies. **NICE RETURN--**(Below) Codes throughout the base got together and entered 14 teams in the volleyball tournament. Family members not participating had an enjoyable day just watching.



PULLLLL--NWC employees and their families eagerly entered into the tug-of-war contest. As seen in the picture above, participants put their entire body strength into their attempt to pull down the opposition. Over 350 people of all ages came out to answer the China Lake Challenge. Even the people not in the events had a fun time just by watching the participants.

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Soccer play is half over

Youth start to learn value of teamwork

With more than half the season over, members of NWC's Youth Soccer League are showing improvement as they learn more about the game's rules, how to play and the importance of teamwork. Despite a few surprises, last weekend's games went well.

Division I

Stallions 0, Cobras 0

Due to the sprinklers coming on in the middle of play, the game was called. Before the abrupt shower, however, the Stallions' coach noted Mike Giroux and Matt Chambers were playing an excellent game. Moves by David Kennedy, Brian Cassidy and Alex Backman made the Cobras a hard team to beat.

Coyotes 5, Owls 0

Three goals by Kevin Collins and two by Erik Johnson put the Coyotes in a firm lead. Team sup-

port and plays by Kevin Boland, Kelly Gartner and Michael Davis cinched the win. Despite several stops on goal by Greg Waller and hard effort by Caleb Crow and Wyatt Lester, the Owls couldn't stop the loss.

Sounders 4, Hurricanes 1

A tough offense and goals by Ben Schneider and Lance Satterthwaite put the Sounders on top. Small players put the Hurricanes at a disadvantage. In spite of the handicap though, team members showed they knew their game. Glen Cordoza knocked in the Hurricanes' only point.

Apollos 0, Cougars 0

Two good goalies and excellent ball handling prevented either team from scoring. Doug Duckworth, Dale Darrell and Cameron Wilson were credited with exceptional play for the

Apollos. The Cougars did not turn in a score sheet.

Express 5, Eagles 0

Team effort, superb plays by Ryan Spargo, Steve Decker and Charles Hanks, and goals by John Little, Blake Stephenson and Adam LaBianca resulted in victory. The Eagles did not turn in a score sheet.

Division II

Wolves 1, Bullets 0

Good plays by Brian Hartney and John Ames, along with Jonathan Ford's goal were just enough for a win. In a hard fought game, efforts by the Bullets (especially Beth Behr, Scott Giroux and Blake Hardin) fell short in stopping the Wolves.

Whitecaps 6, Strikers 1

Teamwork, offensive efforts by Robbie Mitchell and Rodney Snodgrass and defensive efforts by Erich Kohler, along with four goals by Chris Peters and two by Jeff Robbins, put the Whitecaps on top. Eric Bass' lone goal and plays by Philip Benten and Curtis

Allen weren't enough in the loss.

Roughnecks 3, Diplomats 0

Defensive moves by Justin McDermid, April Hines and Chris Gallo prevented the opposing team from scoring. Tony DeCarlo and Ray Hyles kicked in the winning goals. Even though Sam Miles and Jay Black couldn't stop the Roughnecks, they still played a good game.

Earthquakes 3, Jets 0

Tough defense by Barrett Edwards and Rosie Zurita precluded the Jets from scoring. Galen Wilson and Josh Roberts knocked in the Earthquakes' goals for the win. The Jets did not turn in a score sheet.

Rockets 2, Electrons 0

Goals by Brett Thomsen and Pete Greedy, moves by Chandelle Harris, Justin Widenkopf and Duncan Nicholson, and great teamwork shot the Rockets to victory. The Electrons did not turn in a score sheet.

Division III

Soccers 6, Stings 1

With goalie Johnathan Mickel-

son keeping the Stings scoreless in the first half and accurate shots on goal by Michael Ross, Jamie Rugg and Patrick Ross, the Soccers de venomized the Stings. Jeromy Ellingson was credited with an assist in the win. Plays by Josh Behe, Jolie Ann Robinson and Kurt Katzenstein fell short in the loss. Chris Makin scored the Stings' only goal.

Mustangs 6, Furries 3

Glenn Conrad's five goals and a single by Nick Charlton gave the Mustangs a comfortable lead. Team efforts and moves by Andrew Huston and Bryan Kash kept the Furries down. Richard Martin's and Mark Kuz's shots on goal and efforts by Derek Falk, Justin Cobb and Mike Murry showed the opposition that the Furries were a formidable team.

Lancers 1, Goalbusters 0

Tom Edwards' and Aubryln Cox's successful defensive plays and a goal by Nathan Turner resulted in victory. The Goalbusters did not turn in a score sheet.

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HONORED FOR TECHNICAL ACCOMPLISHMENTS—Gerry Schiefer (far left), former NWC technical director, presented Phil Gattis (second from left) and John Robbins with Technical Director's Awards for successful management of the Vertical Launch ASROC rocket motor project. Bill Porter (far right), current technical director, was on hand to offer congratulations.

Health insurance open season nears

Open Season for federal employees with or who want to start Health Insurance is approaching--Nov. 13 to Dec. 8. During this time all eligible employees will be able to change insurance plans or enroll in a plan if not currently enrolled. Plan comparison charts will be distributed to all employees as soon as they arrive in our office. The charts compare all available plans by price, deductible and coverage.

An Open Season Health Benefits Fair will be held Nov. 13-14 from 7:30 a.m. to 4:30 p.m. in the

Trainig Center, Rm 115. You will be able to pick up 1990 brochures on all the plans. The following companies will have representatives on hand to answer questions and assist you:

on Monday, Nov. 13: GEHA, BLUE CROSS/BLUE SHIELD, MAILHANDLERS, POSTAL SUPERVISORS, NFFE, POSTMASTERS, and AFGE;

on Tuesday, Nov. 14: GEHA and POSTAL SUPERVISORS.

Aetna will no longer be available. Employees currently enrolled with them will need to select another plan during open

season. Coverage under Aetna will be good until Jan. 13, 1990.

Employees must go to the Human Resources Department, 505 Blandy, to enroll in a new plan or to make any changes in their current plan. The process established is that the employee will be provided their Official Personnel Folder from the personnel clerk in Rm. 100 and will be directed to the specific personnel assistant who will type the forms and assist him/her in completing the change. Coverage under new plans begins Jan. 14, 1990.

Leisure Travel Mexico cruises now available

As summer fades away and you settle into your fall routine, keep in mind that carefree days of sun and fun are still within your reach. SatoTravel, a full-service travel company, is now offering exceptional prices on weekend getaway cruises from Los Angeles to Mexico.

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Robbins, Gattis earn TD Award

(Continued from Page 1)

Schiefer presented the traditional walnut cubes with accompanying citation letter and monetary award. From Robbins' citation, he quoted, "Your leadership and management skills have greatly enhanced NWC's contributions to the VLA program and are hereby recognized by your receiving this award."

Likewise the Technical Director presented the second award to Gattis "in recognition of your outstanding technical accomplishments on the VLA program." He cited, "It is my pleasure to publicly acknowledge your contributions by presenting you with this award."

Both recipients praised the team effort involved on the part of more than 100 people who worked with them on the project. "I'll treasure the memory of working with this group on the VLA," said Robbins. Gattis added his personal thanks for strong support from his coworkers and superiors.

Schiefer concluded with praise for the teamwork--the synergistic sum of the individuals--that made the VLA rocket motor a success. "This project has been an exhilarating reaffirmation of what China Lake can do," he stated.

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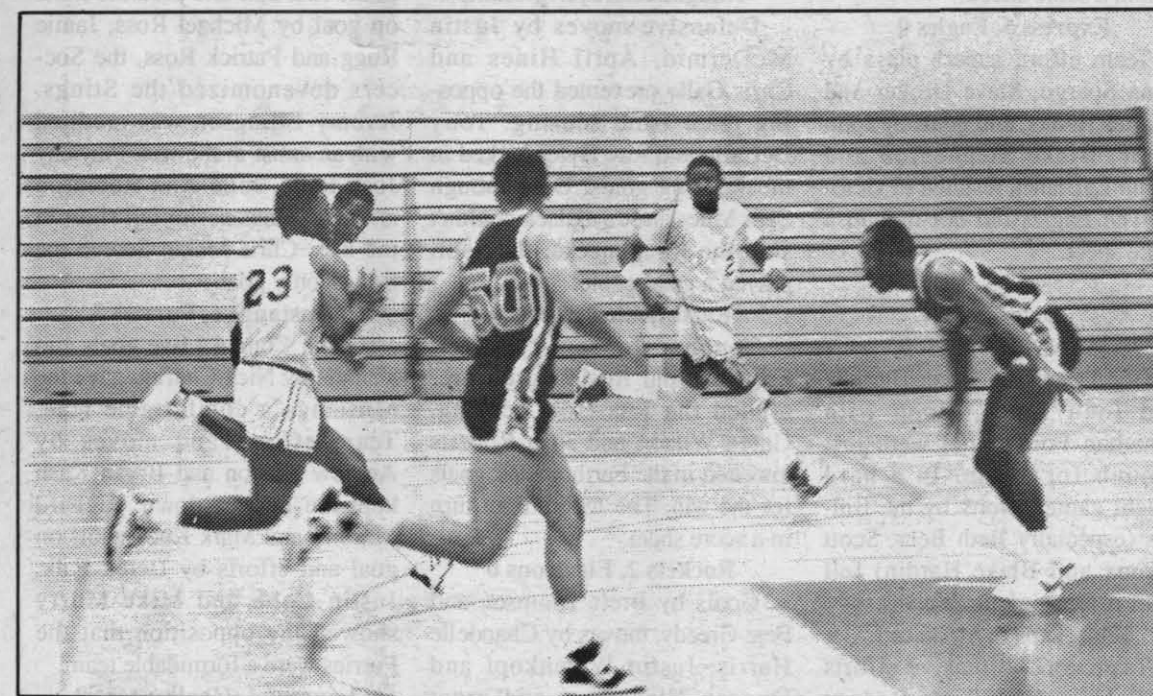
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NWC Varsity Basketball team upsets defending champs in first two games



WAY TO START!—The NWC Varsity Basketball team started their season with a bang by defeating the Southern Pacific Sports Conference's defending champions in the first two games of the season. Photo by PHAN Cary Brady

Less daylight limits golfing

Even with shorter hours, Pro Shop still has great buys

Due to shorter daylight hours, the China Lake Golf Course and the Putter Cup (the snack bar located at the golf course) will close at 5:30 p.m. until further notice. Not only does this mean golfers will have to arrange an earlier time to get onto the greens, but shoppers should remember the new times when planning Christmas shopping sprees.

Don't forget, the Golf Pro Shop has a variety of items that would fit many Christmas wishes. Look

at the wide range of sporting apparel and other items especially designed for golfers. If styles or sizes are confusing, guarantee a perfect gift with a gift certificate from the Pro Shop.

When it is time for breakfast, lunch or just a late snack, don't forget the Putter Cup, which has just come under the management of the Pro Shop. Patrons will soon enjoy a new, expanded menu and improved food and service.

Beating last year's champions two games out of two started the season off right for the NWC Varsity Basketball team. NWC's team topped NCBC Port Hueneme's team with scores of 83-80 and 69-68 in the Southern Pacific Sports Conference, Northern Area, competition. The two teams went head to head on Saturday and Sunday at the Burroughs High School Gymnasium.

High scorers for the home team in Game 1* (played on Saturday) were player-coach Mike Exford, 16 points; Vernon Neighbors, 13; William Lambert, 12; and Darrel Brown, 10.

According to Exford, however, winning Game 2 was even more important than Game 1. "We wanted to sweep the defending champions for many reasons," the player-coach said. "We already showed them we had a winning team, but since we were short-handed for Sunday's game, we wanted to show them it didn't matter and that we could still best them." The player-coach noted five of his players were sent out on detachment only two hours prior to Sunday's game and another player had to leave the game due to a family emergency.

Well, the NWC team showed their opponents what they were made of. Exford credited AO2 Penmon with an excellent performance during the game. "Despite being injured after receiving an elbow in the face," the player-coach said, "Penmon stuck it out and added to his game high performance of 16 assists. After the game, he received 14 stitches."

High scorers in Game 2 were Neighbors, 30 points; Brown, 25; and Exford, 22. Abe Washington aided in the win with 22 rebounds.

Members of the NWC Varsity Basketball team are Exford, Neighbors, Lambert, Brown, Penmon, Washington, Mark Jackson, Amos Bouyer, Keith Haywood, Thomas Holmes, Eric Largardy, Elror Lackhart, Steve Baner and Casley Comier.

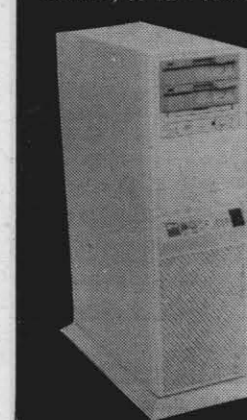
This weekend the China Lake team will battle it out with NAS Pt. Mugu. Their next home game is Nov. 11-12, when they go toe-to-toe against NAVSTA Long Beach.

Pool's heater installed

Eligible patrons can now take advantage of outside swimming in a heated pool. Morale, Welfare & Recreation has just completed installing the heater for the O' Club pool. Enjoy swimming in the warm water.

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HAPPY DAY-- Cdr. Bob Hartman was at the controls of F/A-18 Aircraft 105 on October 13 when the 1000th flight of this aircraft in support of the F/A-18 WSSA was recorded. While Cdr. Hartman was the pilot, he noted many hours of hard work by the entire F/A-18 WSSA (NWC, MCAIR, CSC, CTA, RAIL) team was responsible for this flight milestone

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Smokeout November 16

Army Lt. Col. Antionette Hagey hopes that 13 will be a lucky number this year for military people who smoke. DoD's senior program specialist for health promotion was referring to the 13th Great American Smokeout, to occur Nov. 16.

"When you look at a pie graph of American civilians, three-fourths of that American pie are non-smokers. A pie of military personnel would show that 60 percent, or less than two-thirds, are non-smokers, so we don't compare well in that area."

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Blindness fails to deter Peterson

(Editor's note: This story is the third and last in a series focusing on employment opportunities during National Disability Employment Awareness Month.)

Being blind since birth hasn't stopped Rick Petersen, an employee in the Procurement Department, from living a full, productive life. As a systems analyst for business computer applications, Petersen analyzes existing programs and helps to develop new programs and systems needed at the Naval Weapons Center. He started work at NWC in 1984.

Petersen notes he had not planned on becoming a computer programmer when he first started college, where he was majoring in mathematics. But, while in college, the Systems Development Corporation offered a special computer training

program for the blind and he took advantage of it. Upon completion of the program, Petersen went to work for the Thompson Ramo Woolridge Company (TRW) in Redondo Beach for 11 years.

While working at TRW, he attended classes at the University of Southern California and received a bachelor's degree in business administration.

"At that time," said Petersen, "they didn't have the special equipment for the blind that is now available." Some of the equipment Petersen uses are the Versabril, specialized software and a braille printer.

According to Petersen, the Versabril, which is connected to his personal computer (PC), enables him to read what is on the computer's screen. "It translates the information from the computer into braille."

The systems analyst also uses special brands of software, which allow him to communicate with the Tandem computer and the VAX network. "When I want a hard copy," Petersen said, "I simply download the information from the Tandem or VAX into my PC and print it with my braille printer."

According to the systems analyst, the Equal Employment Opportunity Office provides him with a part-time reader. "She helps me with my mail and keeps me informed about information I might need from magazines and manuals," Petersen said.

In addition to the special equipment used at work, Petersen also utilizes the talents of a seeing eye dog. His own dog, Fritz, recently had to retire. But, Petersen

will soon be getting another one. He and the animal will spend four weeks getting acquainted with each other before Petersen will bring the dog home.

According to Petersen, a dog starts training at about a year and a half old, and spends four to six months in training before being teamed with a new master.

Petersen has also studied to become a real estate broker and holds a broker's license, though he admits he hasn't been using it.

As a sports fan, Petersen enjoys pro basketball, baseball, football and boxing. For the World Series sweep of the San Francisco Giants last month. While in school Petersen used to wrestle, but now enjoys waterskiing, horseback riding and walking.



WINNING SMILES--NWC Wellness Coordinator, Betty Miller (second from right), accepts the citation for finalist in the Office of Personnel Management (OPM) Director's Awards for Outstanding Federal Health and Fitness Programs. Presentations were made by Claudia Cooley, associate director for Personnel Systems and Oversight Group, OPM, at the ceremony held at Washington's Ramada Renaissance Hotel on Sept. 27. Capt. Douglas Cook, NWC commander (far left), and Gerry Schiefer, former NWC technical director, attended the awards ceremony.

LETTERS FROM SANTA

Volunteer Air Force elves at Eielson Air Force Base, Alaska, will again this year send letters from Santa Claus to children throughout the world. But letters must reach Eielson no later than Dec. 1. Anyone interested should first write the letter they want their child to receive from Santa Claus. Then, the letter plus a stamped envelope addressed to the youngster, should be mailed to:
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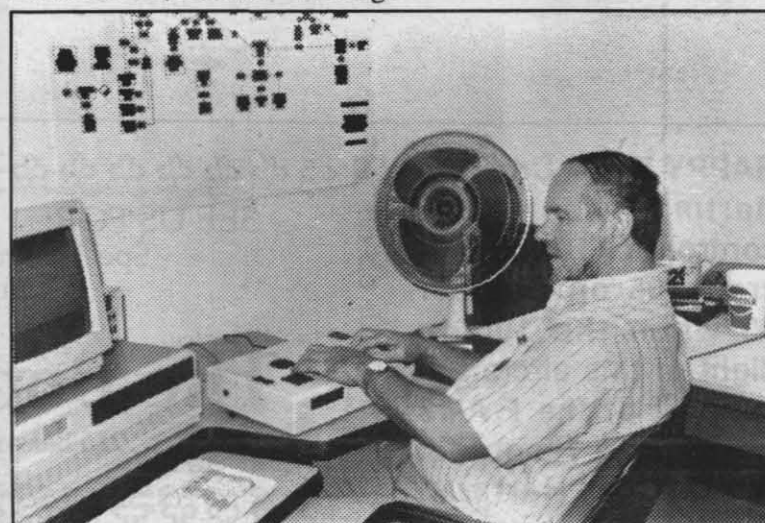
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PRODUCTIVE EMPLOYEE--Blindness hasn't stopped Rick Peterson from getting an education or becoming a valued, productive Naval Weapons Center employee. Photo by PHAN Cary Brady

Traffic safety course set

Demand has been building all summer for another local 55/Alive Course. A course will be repeated here on Nov. 29 and 30 from 10 a.m. to 3 p.m. at the Knights of Columbus Hall, 725 W. Ridgecrest Blvd. At the end of the course participants receive a certificate which, by current California law, entitles the holder to a rebate on auto insurance for

a total of three years.

An absolute requirement for taking the course, you must enroll and pay \$8 fee ahead of time. Checks should be made out to "AARP" and dated the day of the class. Mail check and enrollment request (specify the preferred date) to Del Chambers, P.O. Box 9, Lone Pine, CA 93545.



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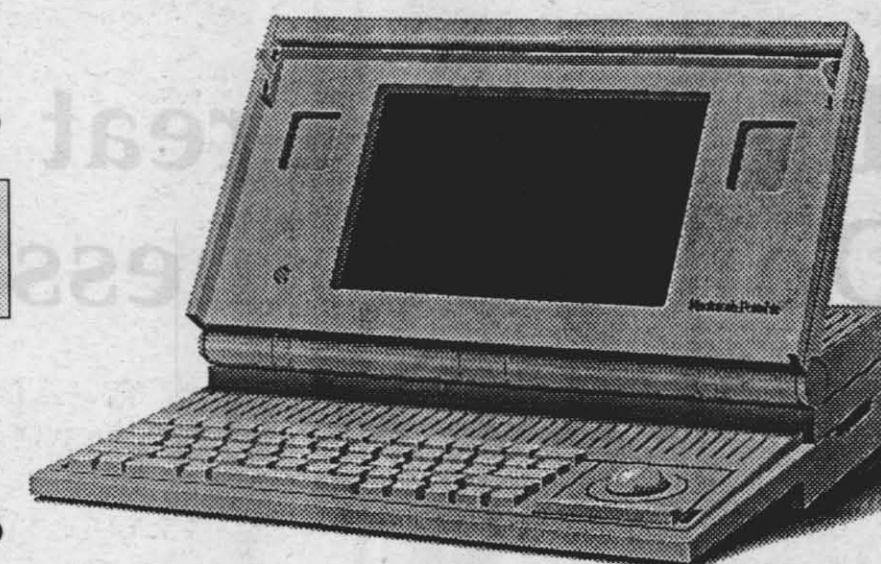


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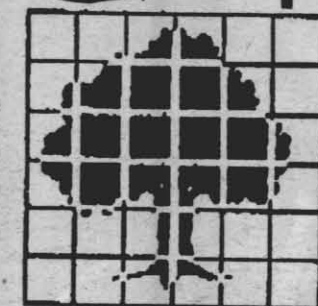
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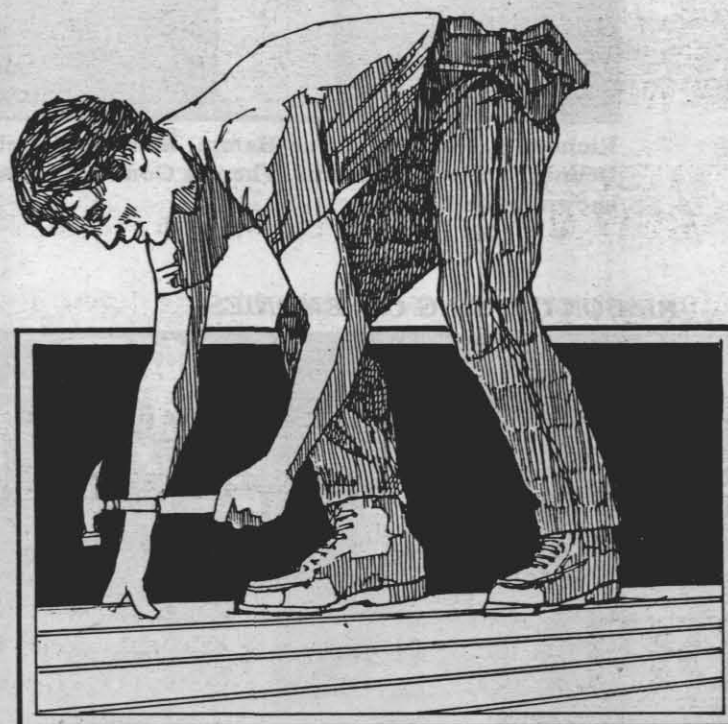
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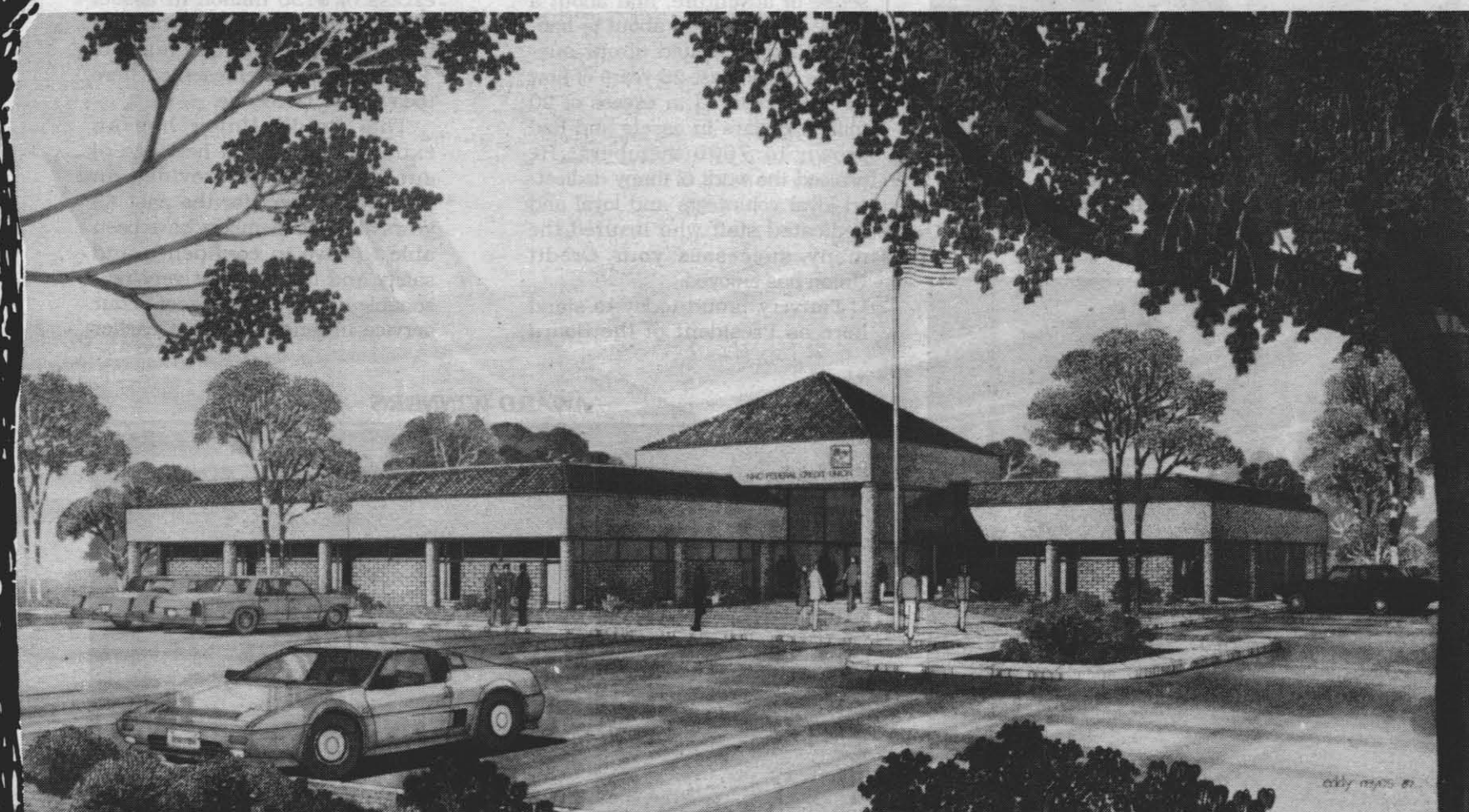
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NEW HEADQUARTERS OFFICE 701 S. China Lake Blvd.

On September 30, 1989, we celebrated the "Grand Opening" of a new headquarters building. More than just a building, this facility is a testimony to our growth over the years and to the commitment for better membership service, both immediately and in the future.

We are a strong, membership owned financially successful institution with over \$150,000,000 in assets, 30,000 members, 110 employees and seven offices. It is just this profile that has demanded

a facility which is capable of housing our expanded electronic data processing, accounting, administration and operations departments. For example, we will now be able to house our recently acquired digital model 8810 VAX computer system, which has six times the processing power of the system currently in use.

In keeping with environmental concerns, the new building has a "clean air" designation. The building was designed to show the strength and stability we bring to the community, and it is eye appealing as well. On the exterior, we employed soft-toned stucco masonry and rich rust colored Spanish tile. The interior

blends popular earth tones and natural woods. Modern space engineering has assured us a complex of efficient work areas with sufficient flexibility for our expected continued growth.

Unquestionably, those who first organized the credit union in 1947, and all those who contributed to the spectacular growth through the years, will be proud of the living symbol the new headquarters building presents to the membership and the community at large.

It is appropriate that a hearty "Well Done" be offered to volunteers, staff and members of THE NEW NWC Community Federal Credit Union for making this most important event possible.



WILLIAM J BAKER
President Board of Directors



BERNARD K. SCHUMMER
CEO

NWC Federal Credit Union Grand Opening Ceremonies

Honored guests, fellow Credit Union members, ladies and gentlemen:

It was seventeen years ago when the then President of the Board, Mr. Bruce Wertenberger, presided at the dedication of our new facility on the Naval Weapons Center. He effervesced about a sense of adventure, and about a sense of new things about to happen. Bruce boasted of our successes of the past 25 years of how we had achieved in excess of 20 million dollars in assets and had grown to 7000 members. He praised the work of many dedicated loyal volunteers and loyal and dedicated staff who insured the many successes your Credit Union has enjoyed.

I'm very proud today to stand here as President of the Board

Speech Made By Board of Directors President William J Baker

and state to you that Mr Wertenberger was absolutely correct, as it was with a sense of adventure that new things did happen. With dedication, competency and loyalty of staff and volunteers we have achieved in excess of \$150 million in assets and 30,000 members, - and isn't it fantastic that member No. 6 of 42 years ago is represented here today - Ms. Terrebone.

This Credit Union has an extraordinarily rich heritage of successes. It has provided an institution where for the past 42 years all of us members have been able to save in confidence and safety and to borrow at very reasonable interest rates. Proof of our service in lending is that earlier

this year we surpassed a total of 500 million dollars - (1/2 billion dollars) in loans to our members, for things like new automobiles, homes, home improvements, education loan, recreational equipment, etc.

So one again we have outgrown our space and our current computer is suffering from old age. Both problems dictated a new facility and a new computer - and as predicted by Bruce we did achieve and find ourselves about to reach another milestone.

There have been many individuals and groups whose activities over the past year significantly contributed to the presence of this new facility. I wish to specifically recognize and thank all the people of Bank Building Corp. especially Mr. Boyd Waltermeyer, BBC Construction Superintendent and Mr. Howard Rayborn, Construction Superintendent who relieved Mr. Waltermeyer when he became ill, Mr. Ray Garrison, John Roganish and Robert Sarnoff BBC Architect and all the rest of the BBC folks.

A special thanks and recognition to Ms. Pat Rogers, Consultant to the NWC Building Committee, whose construction expertise and dedication makes this facility very special and thanks to the Building Committee under my Chairmanship which consists of Bruce Wertenberger and Fred Weals. A special thanks and recognition to Bruce Wertenberger for his expertise in obtaining our new comput-

er and a special thanks to Mr. Fred Weals who donated his time and expertise for this beautiful landscaping plans. A special thanks to all of the many sub-contractors who successfully performed their appointed tasks.

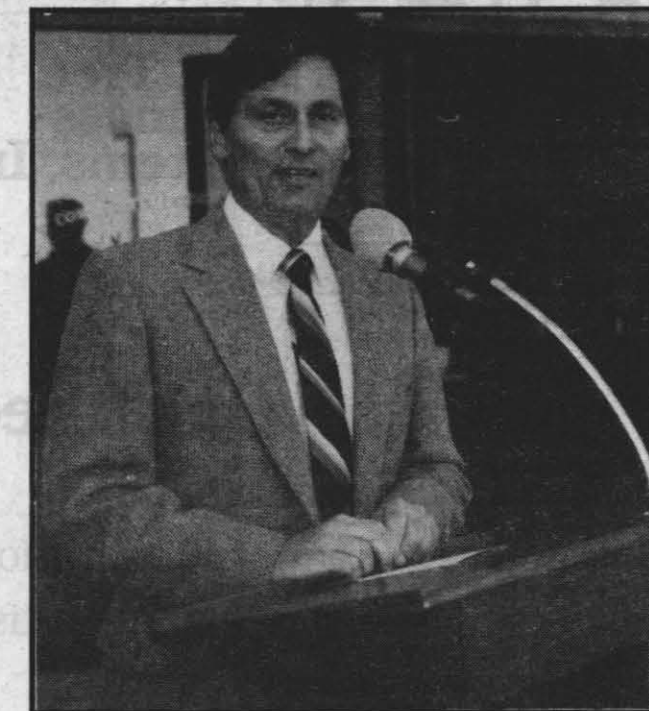
Today we dedicate a new facility, celebrate a grand opening and a ribbon cutting. Ribbon cutting ceremonies are symbolic, representative acts. They are reasons for celebrating, and for reflecting on where we've been and where we're going. They are the reasons that all the volunteers, the staff and the members are requested to rededicate their efforts to insure the continued growth and success of the Credit Union. We feel that taking occupancy of a thoroughly

professional office coincides with our continuing maturity as a member of the NWC, Ridgecrest, Boron, Mojave, Kernville and Lake Isabella Communities. Our new building is symbolic of thoughtfully progressive development - a development we seek to mirror in our Credit Union. Outside of its symbolic significance our new building reflects the kind of professional environment we want for our staff and for our members, where we will be able to do that much better of a job for our members.

We are all proud of what we've accomplished thus far. And, look forward to doing even more in the future.

Thanks to all of your for being here, thanks to all of your who have participated.

COMMENTS BY MIKE MOWER,
MAYOR OF RIDGECREST



AWARD WINNERS



Debbie Kruse, Lori Pracchia, Bob Downing, Carol Pearson, Fred Pooler, Randy Zurn. Up front - Dovie Leonard, Debby Wheeler

DRAWING WINNERS OF SOLID WALNUT DESK WEATHER STATIONS BY "BENCHMARK"



Richard V. Peter, Maurice Hamm, Moneta Terrebone, Pamela Hay, Alicia Denney, Colleen Simmons, Theresa Gonzales, Carol Sakai, Marie Hinso, not shown Dovie Leonard.



William J Baker - President Board of Directors, presenting Bassett Commemorative Plate to Moneta Terrebone - Manager #6, complete with an expert sand casting of our new headquarters building

RIBBON CUTTING (a closer view)

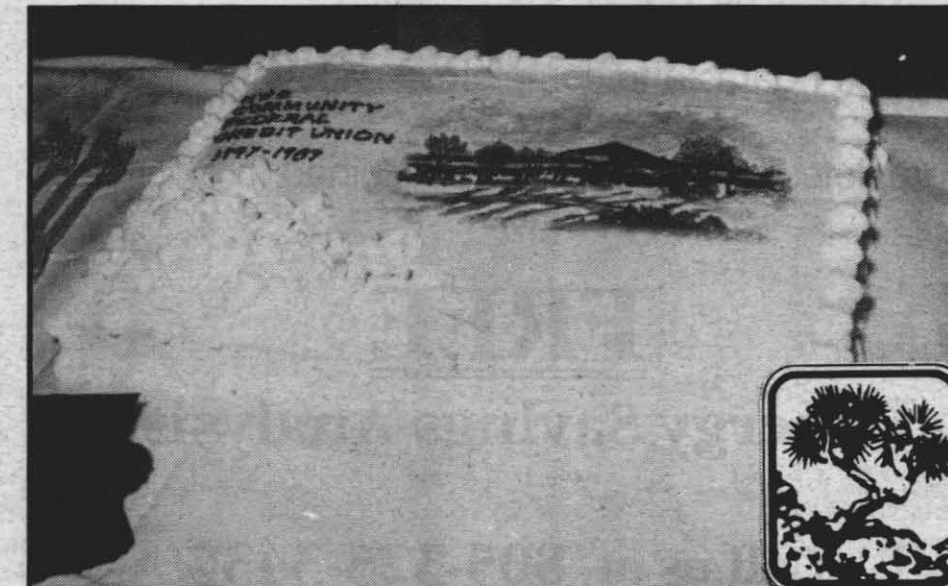


Bob Sarnoff - Bank Builders, Speed Handeland - Chamber of Commerce, Monte Terrebone - Manager #6, Mike Mower - Mayor of Ridgecrest, Bernard K. Schummer - CEO, William J Baker - President Board of Directors NWC.

RIBBON CUTTING CEREMONIES



CAKE BY INTERNATIONAL BAKE SHOP ON BALSAM



Commemorative Plate presentation to Henry Wair (past president of Board of Directors) by Bruce Wertenberger and William Baker.