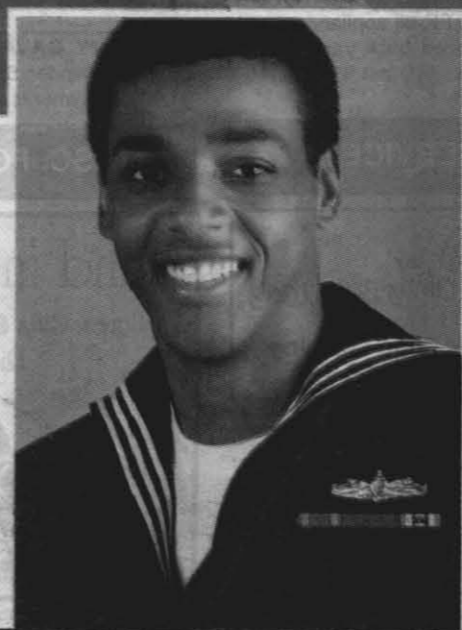


You'll never find another office with a view like this.

While most civilians are striving for a corner office with a window, you already have an office with a view of every corner of the world. But waking up in ports from Hong Kong to Acapulco isn't the only difference between a Navy career and a civilian job. In the Navy, you're guaranteed a steady paycheck, thirty days paid vacation

and long term employment. Even better, Navy promotions are more attainable thanks to continuing education and advancement programs. And you walk away with a great retirement plan. Think about it. Talk to your Command Retention Team. Because the Navy opens your eyes to a world no other career can.



You and the Navy. Full Speed Ahead.

Dec. 5, 1991

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Exchange offering holiday advantage to military patrons

Before you have a chance to turn around, the holidays are knocking on your door. Where can you find the perfect gift for everyone on your list? The Navy Exchange, your neighborhood store, is the only stop you need to make to take care of your holiday shopping. This December, Navy Exchanges are featuring three savings to help your dollars go further. These events are:

- Yule Time Value -- Dec. 4-8
- Holiday Sale -- Dec. 11-17
- Mid-Winter Sale -- Dec. 18-24

A circular for each of the three December events is available at the Naval Weapons Center Navy Exchange. The NWC Navy Exchange is open from 8 a.m. to 8 p.m. Tuesday through Sunday and from 8 a.m. to 7 p.m. on Mondays. Stop by the Navy Exchange today. See what you can save.

NCMA meeting sets telecommunication talk for Dec. 10

Pat McDonald from Contel will discuss *The Future of Telecommunications* at the National Contract Management Association meeting set for Dec. 10 at Farris' (Heritage Inn). The luncheon meeting starts at 11:30 a.m. The soup and sandwich bar menu will be \$6.50 for NCMA members and \$7 for nonmembers. Make required reservations by calling Vickey Oakley or Gina Kauppi at NWC ext. 6245/6334 or Jackie Patterson at NWC ext. 1519, by noon Friday, Dec. 6.

NWC Rocketeer

Naval Weapons Center, China Lake, California 93555-6001

Vol. XLVI, No. 49, December 5, 1991

Raindrop dynamics lead Center scientist to key technical award

by Barry McDonald
Rocketeer Staff Writer

Family and co-workers kept the impending presentation of the Technical Director's Award to Clifford Fountain a very good secret. Bill Porter, the Naval Weapons Center's Technical Director made the presentation.

The citation accompanying the award generally lauds Fountain for his expertise in characterization, advanced process development and assessment of materials for use in weapons systems. "I understand that your

training in physics has been useful in grasping the fundamental dynamics of raindrop impact upon materials applied to aerodynamic surfaces. Your assessment of rain erosion test facilities and the validity of test data produced by those facilities is being incorporated into Navy requirements for rain erosion," Porter read from the citation.

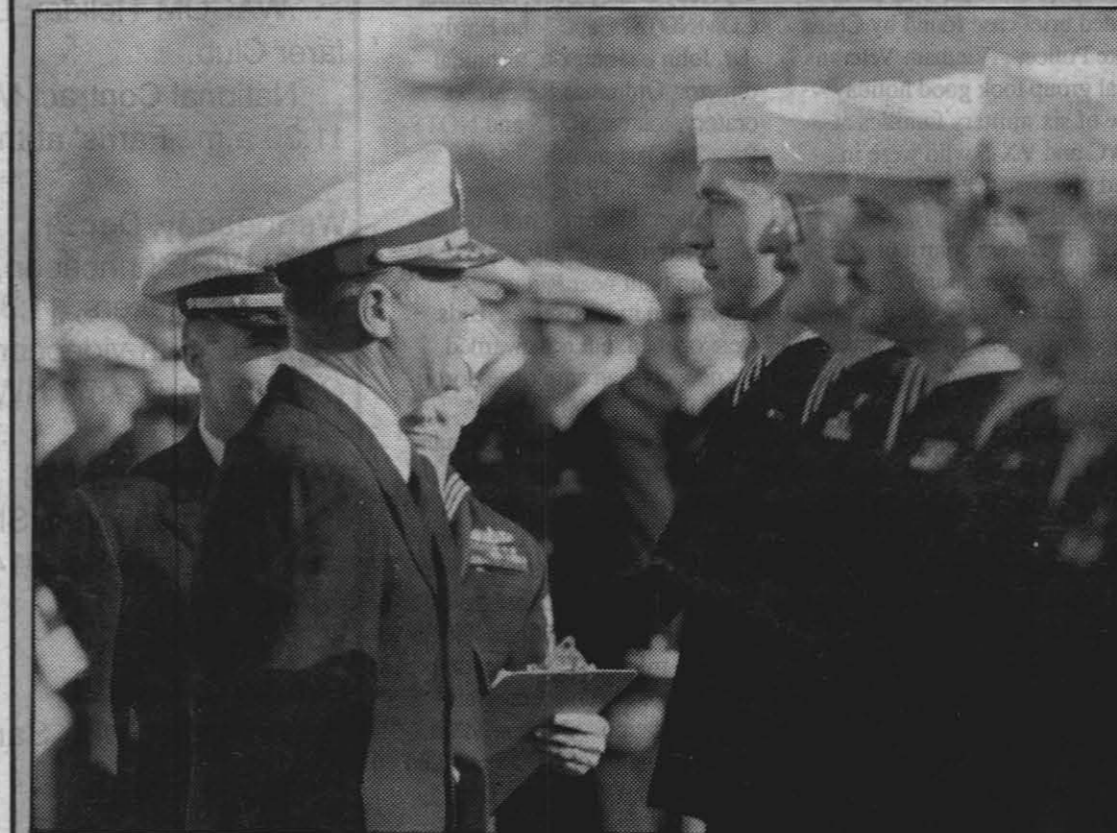
The nomination letter by Matt Anderson, Engineering Department head, says Fountain's use of laboratory resources to examine mechanical, electrical and thermal behavior of

materials provided insight into the properties of novel metal materials, metal-ceramic coating and semiconductors.

Anderson recommended the TD Award in recognition of Fountain's "achievements in developing a widely respected level of scientific expertise, in exercising a sustained initiative to obtaining meaningful engineering data and in contributing originality to material requirements for state-of-the-art weapons systems."

(Continued on Page 7)

Navy dons winter uniform



Photos by PH3 Cary Brady

WINTER UNIFORM-- Capt. B. J. Craig, top, NWC's Commanding Officer of Enlisted Personnel, eyes sailors standing in formation for the winter uniform inspection. Capt. Robert Kapernick, NWC deputy lab director, right, joined the inspection party. More Photos on Page 4.



34 years:

Joe Seibold honored for meritorious career with China Lake

Thirty-four years as a China Laker ended on an exceptional note for Joseph Seibold recently. Capt. Douglas W. Cook, NWC Commander, presented a surprised Seibold with the Navy Meritorious Civilian Service Award. The special honor came in recognition of Seibold's contribution to the advancement of air-to-surface weaponry.

Nominated by Paul Homer, head of the Attack Weapons Department, the award capped a career that began in 1957. In his last tour at China Lake, Seibold headed the Advanced Interdiction Weapons System (AIWS) Project Office. This is an effort to develop and air-to-ground mid-range standoff attack missile for less than high value targets.

Twenty-four of Seibold's 34-years at NWC have been in supervisory roles. Homer said of his managerial skills, "He (Seibold) influenced the future direction of Naval weapon development efforts, and programs of non-Navy DoD components as a consultant on critical technology needs. In an environment of limited funding and department-wide manpower constraints, he supplied the support to complete highly aggressive schedules."

As a member of the original Walleye missile design team the veteran China Laker made significant contributions to the Navy's first television-guided weapon. (Continued on Page 6)

Commentary

NWC Rocketeer

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Pages from the Past



December 5, 1986

Operations of the Telemetry Operations Branch become more effective with completion of the new T-Pad telemetry receiving center. Steve Lyda's work on the cruise missile software package earned him the Technical Director's Award. Capt. R.A. Dropp accepted an award for one-million-man hours of safe operations in the Supply Department. EOD personnel blew up an unattended brief case found by China Lake Police. Vietnam Veterans local group took good holiday care of six military families at NWC and VX-5 who were in need of assistance.

December 4, 1981

China Lakers contributed \$131,100 to the annual CFC drive. The City Council of Ridgecrest passed a resolution annexing seven and a half square miles of NWC. China Lake Search and Rescue personnel assisted in the rescue of four travelers stranded in Saline Valley. Mary Lambton is the new assistant community services director. Ron Erickson won a TD Award for his human factors research. George Gibson earned a 40-year federal service pin with 21-years at NWC and 19 years active duty Navy. Ronnie Lloyd picked up the GIDEF award won once again by NWC.

December 2, 1966

Terry J. Haycock, a China Laker since age 10, took over the NOTS Employee-Management Relations Division, succeeding Austin Ross. Fire Chief J.A. Davis heads a 89-man department protecting China Lake people and property. Ray Gier takes over as athletic director at NOTS. More than 200 people attended the first NOTS Enlisted Military Ball at the Acey Ducey Club, including COMNOTS, Capt. John Hardy. Dr. John L. Johnson, technical director, Ordnance Research Laboratory, toured NOTS and NOTS-Pasadena last month.

December 5, 1951

Station residents overwhelming voted to have new Wherry housing built near Ridgecrest rather than in Inyokern. Bids were opened, but not awarded, for new civilian employee dormitories to house 500 workers. Capt. Vieweg, Station Commander, reported NOTS personnel had exceeded the goal in the annual blood drive. The Community Council wants to convert The Stall into a youth center. Marjorie Thorn and Terry Triffett were awarded NOTS education fellowships to further their technical education. Marine MSgt. Roger Emmons of NOTS recalled being at Pearl Harbor on Dec. 7, 1941.

China Lake Calendar

Thursday, Dec. 5

Auction of surplus government property, 9 a.m., Warehouse 41.

Saturday, Dec. 7

Children's Holiday Party, NWC Youth Center, 6 to 10 p.m.
Pearl Harbor Commemorative Run/Walk, 10 a.m., Solar Park.

Tuesday, Dec. 10

WACOM Holiday Luncheon, 11 a.m., Seafarer Club.
National Contract Management Association, 11:30 a.m., Farris' at the Heritage.

Wednesday, Dec. 11

CLWISE Luncheon, Jean Bennett and Vicki Munro, speakers, 11:30 a.m., Carriage Inn.
IEEE 45th videoconference, Optical Digital Computing, 9 a.m., NWC Training Center.

Wednesday, Dec. 18

ESB-sponsored Shoemobile, 7:30-9 a.m., parking lot of Bldg. 01474 (Public Works Compound).

Saturday, Dec. 21

Breakfast with Santa, 9 a.m. to 12 noon, Seafarer Club.

Military adopts 'Base Force' doctrine

When the Berlin Wall was torn down and the Warsaw Pact disintegrated, the Cold War was over. The United States and its allies had won a 40-year ideological struggle with communism.

The massive forces facing the Western power were reduced, which meant rethinking the best ways to use American military power. Pentagon planners, viewing the changed world situation, went to work to revamp the American military. The result is Base Force.

Planners say this force is not something we will "wake up with tomorrow," nor is it driven solely by restricted budgets. The program will ensure America's superpower status and protect the interests of the United States through the 1990s and beyond.

Officials said three "realities" governed their deliberations. The first is that the Soviet Union now is a different place and a different threat from the Soviet Union of the past.

The second is the world is still a dangerous place, and the United States requires trained and readily available forces to handle the demands.

Finally, domestic fiscal restraints have led to a significantly smaller defense budget. DoD represents about five percent of the gross national product today. Planners estimate DoD will account for roughly 3.5 percent in fiscal 1995 - the lowest percentage in more than 50 years.

A side effect of Base Force is a 25 percent reduction in personnel as the armed forces prepare for the new structure. The process has started, and many military and civilian personnel are already receiving the bad news.

Army Gen. Colin Powell, chairman of the Joint Chiefs of Staff, calls Base Force "the bottom line" needed to accommodate all of the challenges and possibilities in the world. He also calls it realistic given the fiscal constraints placed on the Department of Defense.

The switch to Base Force from a Soviet-focused military posture relies on four themes. The first is deterrence; the United States will maintain a capable and creditable nuclear deterrent.

(Continued on Page 8)

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Ads up to 20 lines.....	\$10.00
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PERSONALS.....	1	SERVICES.....	30
LOST & FOUND.....	5	AUTOMOTIVE.....	35
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. TUESDAY - PRIOR TO THURSDAY PUBLICATION

20 RENTALS

1 BDRM., 1 BATH
Pool/walk-in closet/refrigerator
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446-6561

HERITAGE VILLAGE HOUSE FOR RENT - 2BR 2BA, 2 car gar, yard. Includes use of pool, gym. \$700/mo. + utilities. 805-382-1163, lv. msg.

LARGE 1BR 1BA - Like new cond. Skirted & awning. New carpet, stove, refrig. \$365/mo. + dep. Space rent incl. See at 535 Atkins Sp 10. 446-5134.

NORTH END, CLOSE TO NWC - 2BR 1BA, gar, FP, all appliances, w/d hookups. Fenced back yard. Trash paid. \$435/mo., 1st, last + dep. 446-2086 after 5pm.

30 SERVICES

the Dirty Blind Lady
Ultrasonic Blind Cleaning
371-7740

A TO Z CLEANING SERVICE - Residential & commercial. Special services and low rates. Call Maggie for free estimate today. (619) 371-1339.

FAMILY HOME CARE - Good Christian home. Reasonable rates. Evenings & weekends are avail. Base Certification Pending. Call 446-4689 for details.

30 SERVICES

FREE 1st MONTH rent on modern 2BR, 2BA w/covered patio. 2 car gar, appliances, f/p. \$300 sec., \$610 last months rent. 377-4512.

35 AUTOMOTIVE

16' SPORTCRAFT ADVENTURER - New carpet, lounge seats, stereo. 70HP Mercury. Trailer. \$2,300. Call 371-4584 after 4pm.

1977 CHEVY K5 BLAZER - 6 cyl, 4WD, 3 spd, PS, cass, hitch, 30 gal tank. \$2,100 firm. 375-3601.

1982 TOYOTA 4X4 - A/C, fiberglass shell, good cond. \$3,100 OBO. 375-7945.

88 CHEVY CAVALIER - 2 door Coupe, 4 cylinder, 5 speed. \$6,000 or \$1,000 & payments. 446-7172.

40 MISC. FOR SALE

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(619) 375-9243
Owners: Bill & Mary Hand

WORLD PROGRESS ENCYCLOPEDIA, \$200. 3 cockatiels w/cage, \$75. 446-7666.

40 MISC. FOR SALE

5 PIECE DINETTE SET, \$50 OBO. Baby stroller, used twice, \$25 OBO. 446-1901.

COUCH AND LOVE SEAT SET - \$500 OBO. Call 446-7172.

WANTED - Nordic Track Exercise Machine. Call Louise at 446-7455, lv. msg.

45 GARAGE SALES

GARAGE SALE - 2 family household and decorative items. Bicycles, old iron bed, bed spreads, clothes & more. Friday, Dec 6, 8am-3pm only. 629 Mammie St.

50 PETS/SUPPLIES

FOR SALE - Male Golden Retriever Puppies. Excellent family and hunting dogs. Responsible pet owners only. \$250. 446-6235.

FREE TO GOOD HOME - 8 mo female Rottweiler. All current shots. Good disposition. Call (619) 446-4689.

HAND RAISED BABY COCKETIELS - \$25. Call 375-9227.

REGISTERED COCKER SPANIEL FOR SALE - Black male, 1 1/2 years old. Very playful. Call 446-7895.

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Community Events

Optical Digital Computing

IEEE 45th videoconference starts at 9 a.m. on Dec. 11

On Wednesday, Dec. 11, the Institute for Electronic Engineers (IEEE) will hold its 45th videoconference, *Optical Digital Computing*, at the Naval Weapons Center Training Center. Registration will take place from 7 to 7:30 a.m., followed by a special introductory tutorial, *Optical Computing*, from 7:30 to 8:30 a.m. A late registration period will be held from 8:30 to 9 a.m., followed by the videoconference from 9 a.m. to 12 noon.

Dr. Alan Huang and Dr. David A.B. Miller, from AT&T Bell Laboratories, will examine the latest innovations in optical digital computing, as well as the relative strengths and weaknesses of electronics and optics. They will compare conventional electronic computing and optical systems and will

examine the merging of electronics and optics for devices and systems. This videoconference is essential viewing for computing and electronics engineers, academics and industry professionals.

Dr. Huang and Dr. Miller lead a team that recently invented an "optical logic gate," the final component needed for a device that will move, retrieve and store information using particles of light, at speeds and capacities that far surpass today's electronic machines. "We've got all the components we need to build a whole new technology," said Dr. Huang.

Videoconference cost is \$3 for IEEE or Computer Society members and \$5 for others.

For more information, call Ed Brann at 375-1126 or Mike Ghorbani at 375-8490.

What's happening around IWV

Cerro Coso Community College will present the musical *Godspell* during two evening performances on Friday, Dec. 6, and Saturday, Dec. 7, in the college's Lecture Center. Curtain time is 7:30 p.m., and tickets are available from cast members or at the door. Ticket prices are \$3.50 for general admission and \$2.50 for students, seniors and enlisted military personnel.

ter's Red Canyon Room. For more information, call Steven Rainey at NWC ext. 5613.

During the Dec. 11 lecture at the Maturango Museum, Bill and Naomi Norris, and Jean Bennet, will talk about their 19-day kayak adventure down the Noatak River in Alaska; it begins at 7:30 p.m.

Maturango Museum's Sylvia Winslow Exhibition Gallery's "Open Art Show" begins Dec. 14. A preview reception for members and participating artists will be held on Friday evening, Dec. 13, from 7 to 9 p.m. The show will feature two and three dimensional art created by museum members. Admission is \$1 per adult and 50 cents for children.

Fran and Stephan Wersan, along with approximately eight children from the Temple Beth Torah Youth Group, will present a puppet show at the Maturango Museum on Saturday, Dec. 7. The show, called "The Menorah Maker," starts at 2 p.m. The show is free with admission into the museum, \$1 for adults, 50 cents for children.

On Dec. 9, starting at 7:30 p.m., the Sierra Amateur Radio Club will hold their December meeting at the Kerr McGee Cen-

Christmas portion of Handel's Messiah is set for December 8 at Center Theatre

Under the direction of Ray Blume, the Christmas portion of Handel's Messiah will be performed on Sunday, Dec. 8, at 4 p.m., and on Monday, Dec. 9, at 7 p.m. Both performances will be held at the Grace Lutheran Church, at the corner of Las Flores and Norma. Shirley Helmick will be at the organ, while Doris Bullock will be at the piano. For more information, call Bess McDowell at 375-1540.

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Military News

Recognition

AN **Adrian Pugh** was selected as Plane Captain of the Month for August by the NWC Aircraft Department.

AMS3 **Samual R. Padilla** was named Plane Captain of the Month for September by the Aircraft Department.

AZ3 **Kenneth P. White** was selected as the Junior Sailor of the Month for September by the Aircraft Department for his work in support equipment documentation.

AZ2 **Michael E. O'Brien** re-upped for four years on Nov. 1. Re-enlisting officer was Lt. Bryan M. Scurry.

ETCS **Frederick A. Ames** reenlisted for four years on Nov. 8. Reenlisting officer was Lt. Steven C. Huber.

AD2 **Robert E. Gregg** reenlisted Dec. 4 for four years. Reenlisting officer was Capt. B.J. Craig.

PR1 (AW) **Patricia E. Carey** reenlisted on Dec. 4 for another four years. Reenlisting officer was Cdr. G.H. Baron.

AMSE2 **Harold Kinsfather** was awarded his second Navy Good Conduct Medal.

AMS2 **Arthur R. Hoksbergen** recently earned his second Navy Good Conduct Medal.

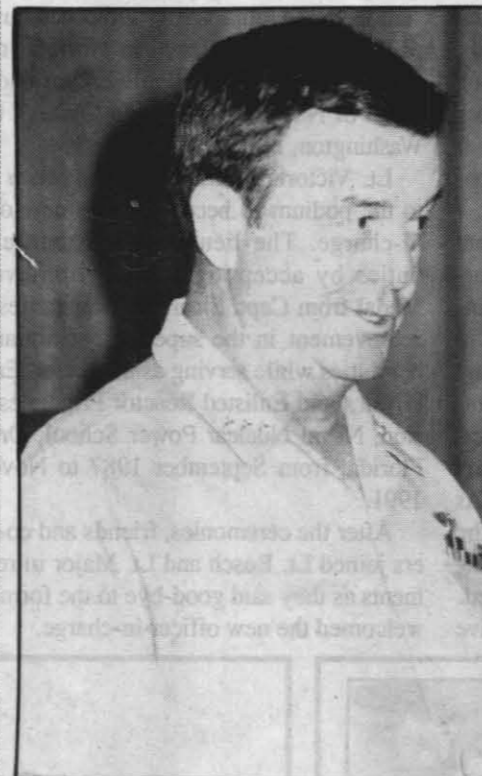
AE2 **Eric E. Blyly** was awarded his second Navy Good Conduct Medal.

AMS2 **Donald E. Chapman Jr.** recently won his third Navy Good Conduct Medal.

AE1 **Dale C. Stenson** was presented his third Navy Good Conduct Medal.

AMS1 **Steven W. Hudson** earned his third Navy Good Conduct Medal.

VAdm. Kohn meets the Vampires



VAdm. E. R. Kohn

VAdm. Edwin R. Kohn, Commander, Naval Air Force Pacific Fleet, visited the Vampires of Air Test and Evaluation Squadron 5 (VX-5), November 13.

Escorted by VX-5 Commanding Officer, Capt. Garth Van Sickle, Adm. Kohn toured key squadron areas to get a feel for what really goes on at VX-5 -- how the strike weapons testing performed by the Vampires is vitally important to naval aviation.

Adm. Kohn discussed important issues with VX-5 officers. Included in their talks

was the current state of naval aviation and what the future might hold given the current state of world politics.

He also fielded questions and received feedback from the men who fly the machines. Such information sharing is essential to the continued success of naval aviation.

Admiral Kohn congratulated the Vampires on their "superlative job performance and the outstanding contributions made by each and every member of VX-5." by VX-5 PAO, Ens. Nate Hawkins

Sailors can make use of leave

Washington (NNS) -- Sailors and marines who served in Operation Desert Shield and Desert Storm may be eligible to carry over 60 days of leave on the books, if operational requirements precluded normal leave.

Operational requirements include service in hostile fire or imminent danger zones, assignment to a ship or mobile unit

deployed away from homeport for a continuous period of at least 120 days, assignment to a ship or unit that maintained higher than normal readiness conditions for at least six months and other duty with unique operational requirements for 120 days or more.

Further information is provided in NAVADMIN 133/91.

Military medical career gives new OIC a chance to follow his family's path

Born in a military medical facility (Brook Army Hospital, San Antonio Texas), the oldest son of an Air Force pediatrician, it would seem a natural course of events for Stephen A. Kent to enter the military and eventually manage a military medical facility.

But such a progression wasn't a lifetime dream of L.Cdr. Kent, new officer in charge of the Branch Medical Clinic at the Naval Weapons Center.

"I had always been interested in health care, not so much as an M.D., but I felt I would do something in this field. The military wasn't necessarily part of the plan," he said. "When I got out of grad school I was exploring possibilities and I put in an application to the Navy to be a medical administrator. When they called and said 'Come sign the papers,' I said, 'Great,' and haven't regretted it since." He explained there is a great diversity of opportunity in Navy medicine.

Part of a military family, Kent went to elementary school in Florida and Alaska, and grades 8 through 12 in Colorado Springs, Co., while his father was director of professional services at the Air Force Academy Hospital.

He went on to the University of Colorado, earning a bachelor's degree in psychology from the Boulder campus in 1978 and a master's in health care administration from the Denver campus in 1982.

Completing officer indoctrination school in May 1983, Kent was assigned to Naval Medical Clinic, Norfolk, Va., as a lieutenant j.g. He served as the administrative officer for the Lafayette River Branch Medical Clinic and as the head of operating management for seven branch clinics, he was frocked to lieutenant in March of 1984.

In February 1985, he was transferred to the Fleet Marine Force at Camp Pendleton,

deployed to the Western Pacific on the USS *Durham* from August 1985 to December 1985. In March of 1986, he was given command of Alpha Company, 1st Medical Battalion.

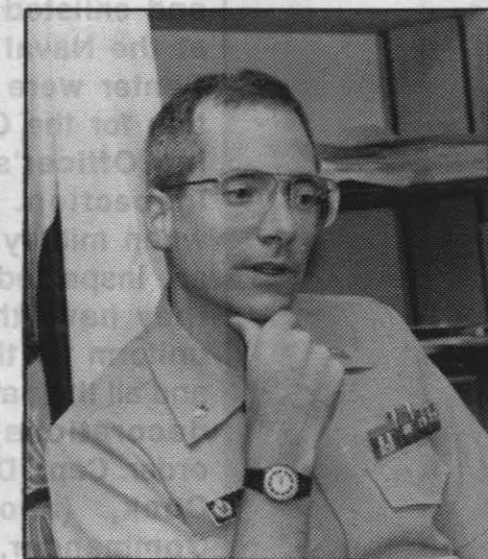
In September 1988, Kent transferred to the 5th Marine Expeditionary Brigade (MEB) Command Element, serving as the medical administrative officer.

A blind date in 1989 with the roommate of a college friend resulted in Kent's marriage to Joni Howe in July 1990. A few weeks later, while he was in Bremerton, Wash. attending a leadership class, the Navy began to mobilize for Desert Shield and it looked like his MEB would be called up. When it wasn't, it was a relief to the newlyweds.

"Just having been married and returning from the honeymoon to the possibility of going was a trying experience for us," he said. "Then in November, when the president announced the full reinforcement, we knew the 5th MEB would be going, and in a way, the weeks before we left were tougher than the actual leaving. It was like a black cloud hanging over us."

Deploying in December onboard the USS *Tarawa*, it would be seven months before the MEB returned. Originally scheduled to come home at the completion of the ground war, the departure date was extended repeatedly.

(Continued on Page 5)



LCdr. Stephen Kent

where he was assigned to the 13th Marine Service Support Group as the Health Service Support Detachment commander. He

Lt. Major relieves Lt. Busch at helm of

"You are the best," Lt. Jerilyn B. Busch told the military and civilian personnel of the Personnel Support Activities Detachment (PSD) at China Lake just before she was relieved of her duties as the detachment's officer-in-charge by Capt. Anthony C. Sicari, Commanding Officer, Personnel Support Activities, San Diego.

During the change of charge ceremonies, Capt. Sicari praised Lt. Busch and the China Lake detachment for their continuing efforts to improve service to their customers and support command. One of the biggest improvements to this service was the smooth installation of the Source Data Systems, a computer system which allows personnel representatives to update not only local records, but the military's main records at the same time.

Capt. Sicari noted under Lt. Busch's leadership, the local detachment took care of approximately 300 travel claims each month, while still maintaining 1,000 military pay records and administering 425 Navy exams per exam cycle. The captain praised the fact the majority of travel claims were settled within three to four days. "The Navy's goal is

to settle each claim within 10 days," the captain said. "PSD surpassed that time frame."

"Being this good does not come easy," Capt. Sicari said. "Leaders can't get the job done by themselves. It takes teamwork. Lt. Busch has shown an extraordinary ability to get the most out of her people and to get them to pull together as a team."

That ability resulted in Lt. Busch receiving the Navy Commendation Medal for her work at China Lake. "Lt. Busch performed her duties in an exemplary and highly professional manner," read the citation with the award.

"Her unsurpassed technical expertise and managerial ability led to dramatic performance improvements by virtually every management index. Under her dynamic leadership the detachment consistently provided the highest standard of service to customer commands, personnel recalled in support of Operations Desert Shield and Desert Storm, and evacuees of the Mount Pinatubo eruption. As a result of her personal involvement, the detachment consistently received outstanding results on inspections," the citation continued.

Capt. Sicari also praised Lt. Busch's active

community involvement and concern in feeding the homeless.

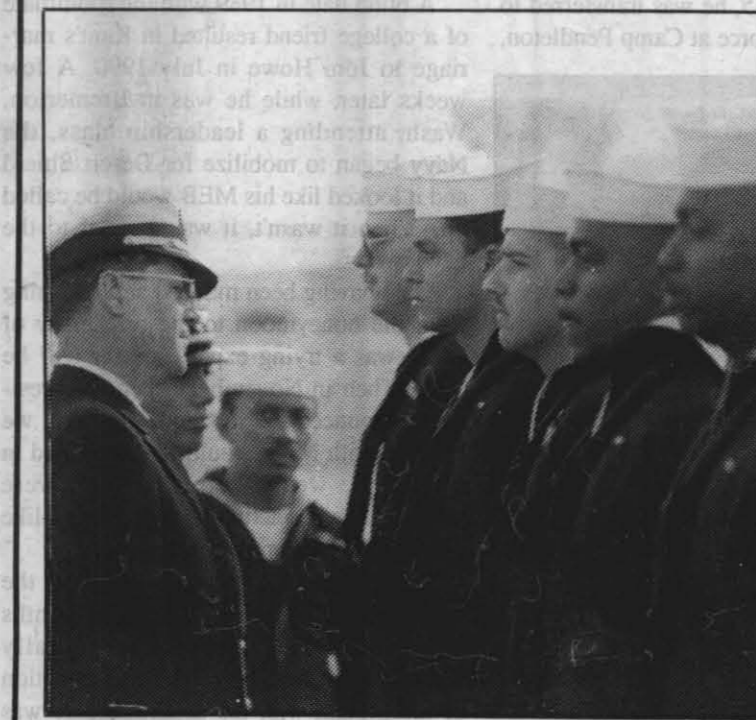
Before Lt. Busch was relieved of her duties, Capt. Sicari teased her about finally being reunited with her husband. During their two years of marriage, Lt. Busch has been stationed at China Lake, while her husband, Mike, has been stationed in Norfolk, not far from her new duty station working under the Chief of Naval Operations in OPNAV 087 in Washington, D.C.

Lt. Victoria Elaine Major was then called to the podium to become PSD's new officer-in-charge. The lieutenant started her new duties by accepting a Navy Achievement Medal from Capt. Sicari for her "professional achievement in the superior performance of her duties while serving as instructor, Enlisted Physics and Enlisted Reactor Principles Division, Naval Nuclear Power School, Orlando, Florida, from September 1987 to November 1991.

After the ceremonies, friends and co-workers joined Lt. Busch and Lt. Major in refreshments as they said good-bye to the former and welcomed the new officer-in-charge.

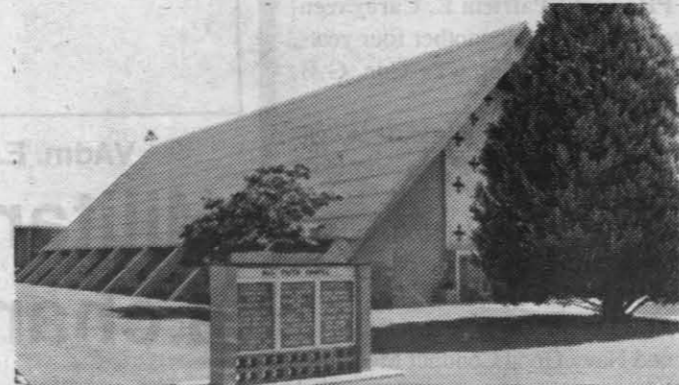


Lt. V.E. Major



Photos by PH3 Cary Brady

INSPECTION TIME--Last Wednesday, officers and enlisted members at the Naval Weapons Center were in formation for the Commanding Officer's Uniform Inspection. This is when military members are inspected to insure they have the proper uniform for the season and all their awards and decorations are in order. Capt. Douglas W. Cook, (above) NWC Commander, checked out the officers and Capt. Randy Williams, PW officer, checked some of the troops.



Divine Services

- | | |
|--|-----------------------------|
| Protestant | |
| Sunday Worship Service, East Wing | 8:00 a.m. |
| Sunday Worship Service, Main Chapel | 10:30 a.m. |
| Sunday School, 1008-10 Blandy & 1903-05 Mitscher | 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 at 1002 Blandy) | 1 p.m. (DST)
12 p.m.(ST) |
| Roman Catholic | |
| Sunday Mass, Main Chapel | 9:00 a.m. |
| Daily Mass, Small Chapel | 11:35 a.m. |
| Confessions, Weekdays | By appointment |
| Religious Education Classes (Sunday) (September thru May) | 10:15 a.m. |
| 1902 Dobb, 1002 Blandy, 1008-10 Blandy & 1903-05 Mitscher | |
| Scripture Classes, Tuesdays (October-January) | |
| St. Ann's Parish Hall | 7-8:30 p.m. |
| Jewish | |
| (375-0385 Messages) | |
| Weekly Services (Friday - East Wing) | 7:30 p.m. |
| Adult Hebrew Lessons (Saturday, East Wing) (September thru June) | 3:00-5:00 p.m. |
| Religious Education (Sunday, East Wing) (September thru June) | 9:30 a.m.-12:30 p.m. |

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Cal-State University, Chico announces its spring schedule

Following are courses being offered this spring for the California State University, Chico (CSUC), Computer Science Program (bachelor's and master's degrees). To enroll, call Denise at NWC ext. 2648. Registration will be held at the first class meeting. Deadline for enrolling is 10 calendar days before the starting date of the class.

CSCI 152: Operating Systems Programming (3 units)

January 13-April 22, Mondays and Wednesdays, 1130-1245; Training Center. By Professor Paul Luker, CSUC, (916) 898-4414. Lab will be Thursdays, 1700-1800, by Howard McCauley, NWC ext. 2274.

Prerequisite: CSCI 151: Algorithms and Data Structures or equivalent or consent of instructor.

Scope: Overview of system software function and evolution; loaders; linkers; operating system architecture from the kernel outwards.

Note: This is a core course in the bachelor's degree program and a required foundation course for the master's degree program.

CSCI 223: Artificial Intelligence
January 28-May 19, Tuesdays and Thursdays, 0800-0915; Training Center. By Professor Anne Keunke, CSUC, (916) 898-5998.

Prerequisite: CSCI 151: Algorithms and Data Structures or equivalent or consent of instructor.

Scope: The nature of and need for artificial intelligence. The representation of knowledge and making of inferences from given facts; expert systems; natural language understanding; searching for solutions and game playing; artificial intelligence programming in a functional language; computer vision; applications of arti-

cial intelligence.

CSCI 256: Theory of Computer
January 28-May 19, Tuesdays and Thursdays, 0930-1045; Training Center. By Professor Kent Wooldridge, CSUC, (916) 898-5061.

Prerequisite: CSCI 151: Algorithms and Data Structures or equivalent or consent of instructor.

Scope: This course covers formal descriptions of computers, languages and programs, investigates correctness, behavior and complexity and include coverage of formal grammars and the associated automata, unsolvable problems, recursive functions and post systems.

CSCI 332: Digital Image Processing (3 units)

January 28-May 19, Tuesdays and Thursdays, 1230-1345; Training Center. By Professor Jim Murphy, CSUC, (916) 898-4037.

Prerequisite: Statistics and Calculus III or consent of instructor.

Scope: A treatment of topics in digital image processing and display: Image acquisition and display; visual perception; digital representation; 2-D transformations; sampling; enhancement; restoration; coding and compression; input and output hardware; image processing software. Course emphasis is on the design and implementation of computer systems for image processing, display and data management.

CSCI 397C-9: Computer Security and Privacy (3 units)

January 28-May 21, Tuesdays and Thursdays, 1400-1515; Training Center. By Professor Jim Pinkert, CSUC, (916) 898-3408.

Scope: The class will begin with a historical discussion of cryptography.

Emphasis then shifts to security in computer systems, particularly identification, authorization, operating system security, data flow security and data base security. ATMs and POSs are rapidly entering the business scene. Security considerations, especially for multi-organization transactions, will be covered as a specialized extension of some of the more general previous discussions. Computer systems are similar to other assets and businesses in certain aspects of security and these will be the next topic.

Included are such areas as physical security, site selection, insurance for hardware and data and liability insurance. (Satisfies Operation Systems/Networks area).

CSCI 397C-10: Object-Oriented Analysis and Design (3 units)

January 28-May 21, Tuesdays and Thursdays, 1100-1215; Training Center. By Professor Paul Luker, CSUC, (916) 898-4414.

Prerequisite: CSCI 151: Algorithms and Data Structures or equivalent or consent of instructor.

Scope: The class is designed to be complementary to the classes in object-orientation in the earlier phases of the software life cycle; object-oriented analysis, which creates models of the world based on objects; object-oriented design, which relates specifically to the design of software. There will be a project for this class, which may be based on design and/or programming. This will largely be determined by individual students on the basis of their own needs, background and, above all, interest.

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LCdr. Kent new OIC Bupers gains new leader

(Continued from Page 3)

Then, on the day after they finally left the gulf, the brigade learned they would be diverted to assist with relief efforts in Bangladesh following a typhoon. "Despite being delayed two weeks in going home," Kent noted, "no one had a problem with lending a hand."

In June, the last month of the deployment, Kent was promoted to lieutenant commander. He reported to the Naval Weapons Center's Branch Medical Clinic on Nov. 1 to begin the turnover process.

He began his new duties by receiving a gold star in lieu of a second award of the Navy Commendation Medal from Capt. Fred Jackson, Commander,

Naval Hospital, Long Beach, for his work with the 5th Marine Expeditionary Brigade deployed in support of Operations Desert Shield and Desert Storm from Dec. 1, 1990 to June 29, 1991.

Kent said he's been a runner since college and has raced in 10Ks and other events in most of the places he's been. He says while he also likes to bicycle and swim to help stay fit, he hasn't competed in a triathlon yet but supposes he'll get into that while he's here.

His wife, Joni, is a registered nurse, and while "she hasn't been out pounding the pavement for a job," the lieutenant commander said, she'll probably start looking after the holidays when we're more settled in.

Washington (NNS) -- Reflecting on more than three years of service as deputy chief of Naval Operations for Manpower, Personnel and Training (OP-01) and Chief of Naval Personnel, Adm. Mike Boorda said that his priorities were clear -- "The Secretary of the Navy and the Chief of Naval Operations gave me very clear guidance to help take good care of Navy people."

Boorda recently turned over leadership of Bupers to VAdm. Ronald J. Zlatoper after the Senate confirmed Boorda's nomination for full admiral and Zlatoper's nomination for three stars.

Adm. Boorda is slated to relieve Adm. Jonathon T. Howe as Commander in Chief, U.S. Naval Forces Europe, and Commander in Chief, Allied Forces, Southern Europe.

Boorda said that he wanted to "do my part to make Bupers a little kinder, a little gentler and a little more responsive to people -- knowing that the people in the Navy are truly our most impor-

tant asset." In practice, this included detailee visits to battle groups, longer advance notice of permanent change of station moves, more first choices of duty stations and more approvals of homesteading requests.

Boorda also made stability in personnel policies and programs a top priority. "I wanted to bring some stability to the whole process, and not make a lot of changes just for the sake of changing things," he explained. "If you make changes in the personnel business, you are affecting people's lives, so we've tried to make only the changes that made sense, that made things better for Navy people."

Stability took on new importance with the decisions of the administration and Congress last year to reduce the size of the Navy and other services based on positive international trends and economic concerns in the U.S. The Navy is currently slated to go from about 590,500 people in FY 90 to 510,000 in FY 95 as the

Navy decommissions ships, squadrons and shore activities.

Taking the helm of Bupers after serving as Commander Carrier Group Seven and commanding the USS Ranger battle group in Operation Desert Storm, VAdm. Zlatoper said that Bupers will keep emphasizing personnel policies and programs that promote stability, equal opportunity and a good quality of life for Navy people; personalized service from Bupers, and manpower reductions without involuntary separations of sailors.

"Well-trained, experienced and motivated sailors gave us the ability to win in Desert Storm," Zlatoper said. "If we continue to take good care of our people, they will respond by excelling in whatever missions and challenges the future holds for the Navy."

During Adm. Boorda's final ceremony, he said, "I've had a great team to work with here. Now we've got a real 'people person' in 'Zap' Zlatoper."

Mail holiday items soon

Washington (NNS) -- As the holiday season approaches, it's not business as usual for the DoD postal community. Postal workers from all services are rolling up their sleeves to meet two major challenges.

A recurring challenge is the heavy holiday mailing that continues through the beginning of next year. As in previous years, anyone mailing to or from overseas is advised to mail early.

This year, the holiday mailing period also coincides with the second major challenge for the postal community -- the Zip Code Alignment/Address Standardization program. DoD implemented the new program July 15, resulting in significant changes to the military postal business.

Buckle up for safety this holiday season

Remember: A safe driver is ready for any emergency. A safe driver plus a safe car means fewer crashes. A sleepy driver may never make up--so stay awake and avoid a wake. A thinking driver doesn't--a drinking driver doesn't think.

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For registration appointments call 375-5001, December 2-19 or January 6-9 from 9 a.m. to 5 p.m. Hearing impaired students may call 375-1001.

Continuing Students (by appointment only)	
December 9 & 12	8:30-1:30 p.m., 3:00-6:00 p.m.
December 10 & 11	8:30-1:30 p.m., 3:00-5:00 p.m.
December 13	8:30-12:00 p.m., 2:00-4:00 p.m.
January 6	8:30-1:30 p.m., 3:00-6:00 p.m.
January 7	1:30-5:00 p.m.
January 8	8:30-12:00 p.m., 3:00-6:00 p.m.
January 9	8:30-1:30 p.m., 3:00-5:00 p.m.
January 10	Walk-in Registration 8:30-4:00 (no appointment necessary)
New Students (Orientation/Registration - by appointment only)	
December 10 & 11	5:00 p.m.
January 7 & 9	5:00 p.m.
January 8	1:00 p.m.

For more information or a class schedule call 375-5001

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Siebold wraps up Navy award, long career

(Continued from Page 1)

Among his tasks during the design and development of Walleye were training pilots in the use of the Walleye captive training weapon and helping training squadrons deploying to Southeast Asia with the new Walleye weapon.

A few of the other projects Siebold worked on during his NWC career included the first forward looking infrared (FLIR) search system, the Maverick missile, all-weather standoff and attack control system, medium range air-to-surface missile, supersonic low altitude target vehicle and supersonic tactical missile.

Homer praised Siebold's technical insight and leadership skills throughout his career and, in particular, his tour as head of the AIWS office. He said, "his leadership in developing information necessary to support reviews directly contributed to the successful Milestone I decision in 1989. He has fostered the development of a system which represents an affordable approach to alleviating current interdiction weapon inventory deficiencies."

Calling this the highlight of his NWC career, the award winner credited the team approach for all his accomplishments. "I'd really like to thank the AIWS team for all their support. They made this award possible."

New rules for document destruct

Operational times will be Tuesdays and Thursdays from 7:30 a.m. to 4:30 p.m. Appointments are mandatory and may be made by calling NWC ext. 3132.

Burning of non-paper products (i.e., computer software or hard disks, plastic tapes, VCR tapes, typewriter ribbons, etc.) is restricted. These products must be broken out of their hard coverings and the classified portion must be removed and only that portion must be brought to DDF. DDF will not accept the outer coverings.

Boxes containing classified paper must not be larger than a xerox paper box or weigh more than 40 pounds. One person must be able to lift it safely.

All binders, books, manuals, regulations, etc., must be broken apart. All large, heavy staples, paper clips, brads and hard covers must be removed.

Finally, remember the paper recycling center. For more information on what is recyclable and what isn't, call NWC ext. 3432.



TOP AWARD--Capt. Douglas W. Cook, NWC Commander, pins the Navy Meritorious Civilian Service Award on Joe Siebold while Bill Porter, NWC Technical Director (left), and Mrs. Siebold look on. The honor is the top award the Center commander can approve for a civilian. Photo by PH3 Brady

ESB brings Shoemobile to China Lake on December 18

The Employee Services Board announced that the Shoemobile will be on Center Wednesday, December 18, from 7:30 to 9:00 a.m.

It will be in the parking lot of Building 01474 (Maintenance Utilities Division, Public Works Compound) near the intersection in Inyokern and Knox roads.

Civilians and military personnel may purchase safety shoes, gloves and related items from the Employee Services Board-sponsored mobile unit.

Northridge reveals upcoming courses

(Continued from Page 22)

Scope: This course develops and demonstrates techniques and models useful for solving a wide range of problems associated with the design and analysis of various probabilistic systems in electrical engineering application. These include radar, communication systems, sonar, control systems, information theory, computer systems, circuit design, measurement theory, vulnerability analysis and propagation.

Note: This is a prerequisite course to EE 550N: Random Processes which is a core course for the master's degree program in electrical engineering through CSUN.

Text: *Probability, Radom Variables, and Random Signal Principles*. Peebles. McGraw-Hill, second edition.

Comments:

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 a DD 1556 (Off-Center Training Request) before registration if NWC is expected to pay for the training. For additional information, call Cecil Webb at NWC ext. 2648.

See which FEHB plans carry cost containment initiatives

Monday, Dec. 9, is the last day of the Federal Employees Health Benefits Program (FEHB) 1991 open season. The Office of Personnel Management has asked personnel departments to tell eligible employees about the cost containment initiatives in the program.

With the cooperation of the FEHB plans, the program is going forward with the cost containment initiatives that were instituted last year. Hospital pre-certification and large case management have proven valuable in ensuring that enrollees receive the care they need for the lowest possible cost. And the option to use Preferred Provider Organizations (PPOs), where the enrollee may select doctors who have agreed to control the cost of services, has reduced the out-of-pocket costs to FEHB members.

Participants should be aware of the cost containment features of their FEHB plan. Anyone who is thinking about changing plans during open season is urged to become familiar with the features of the new plan.

Pamphlets on the various plans are available in Room 213 of the Personnel Building.

People who would like to change plans, or to enroll in a plan, should go to Room 100 of the Personnel Building to obtain their Official Personnel Folder. They will then be directed to the specific personnel assistant serving their department.

Bakersfield's external degree program starts new quarter

Following are courses 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 courses, call Denise at NWC ext. 2648. Registration will be held at the first class meeting. Deadline for enrolling is 10 calendar days before the starting date of the class. Enrollments for courses will be on a first-come, first-served basis, unless otherwise indicated.

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

January 8-March 11, Wednesdays, 1610-2100; Training Center. By Professor Sasaki, CSUB, (805) 664-2363.

Prerequisite: To take this course for credit, classified graduate status is required or permission of the program coordinator.

Scope: This course covers examination and application of theories and concepts pertaining to the behavior of individuals in contemporary work organizations. It 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.

BA 370: Legal Environment of Business (5 quarter units)

January 8-March 11, Wednesdays, 1610-2110; Training Center. By Professor Graves, CSUB, (805) 664-2326.

Scope: This course is an introduction to the legal process, recognizing law as an instrument of social and political control in society. Topics include legal philosophy, judicial and administrative processes, constitutional protection for individuals and government regulation of business.

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

CSUB.
BA 477.063: Business and Technical Report Writing (5 quarter units)

January 6-March 23, Mondays, 1610-2110; Training Center. By Professor Iyasere, CSUB, (805) 664-2144.

Prerequisite: English 110: Expository Writing or equivalent or consent of instructor.

Scope: Students receive extensive practice in writing clearly and persuasively in technical and specialized forms such as reports of experiments, abstracts, business reports and proposals, letters and memoranda.

MATH 477: Probability for Engineers (5 quarter units)

January 6-March 12, Monday thru Thursday, 1130-1230; Training Center. By Dr. Wade Swinford, NWC ext. 2878.

Prerequisite: EE 350N: Linear Systems I or equivalent or consent of instructor.

Scope: This course develops and demonstrates techniques and models useful for solving a wide range of problems associated with the design and analysis of various probabilistic systems in electrical engineering application. These include radar, communication systems, sonar, control systems, information, theory, computer systems, circuit design, measurement theory, vulnerability analysis and propagation.

Note: This is a prerequisite course to EE 550N: Random Processes, a core course for the master's degree program in electrical engineering through CSUN.

Text: *Probability, Random Variables, and Random Signal Principles*. Peebles. McGraw-Hill, second edition.

Comments:

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 a DD 1556 (Off-Center Training Request) before registration if NWC is expected to pay for the training. For additional information, call Cecil Webb at NWC ext. 2648.

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CSUN announces its spring class schedule

Following are courses being offered this spring for the California State University, Northridge (CSUN), Engineering Program (master's degree). To enroll in these courses, call Denise at NWC ext. 2648. Registration will be held at the first class meeting. **Deadline for enrolling is 10 calendar days before the starting date of the class.** Enrollments in courses will be on a first-come, first-served basis, unless otherwise indicated.

EE 552N: Digital Signal Processing II (3 units)

January 28-May 21, Tuesdays and Thursdays, 1610-1740; Training Center. By Dr. Wade Swinford, NWC ext. 2878.

Prerequisite: EE 551N: Digital Signal Processing I or equivalent or consent of instructor.

Scope: This course covers approximation of filter specifications; advanced digital filter design techniques; implementation issues for digital filters, sensitivity and quantization noise; decimation and interpolation of discrete-time signals; fast number theory transforms; and two-dimensional digital signal processing.

Text: *Discrete-Time Signal Processing*. Oppenheim and Schaffer. McGraw-Hill, latest edition.

EE 525N: Microprocessor Applications in Engineering (3 units)

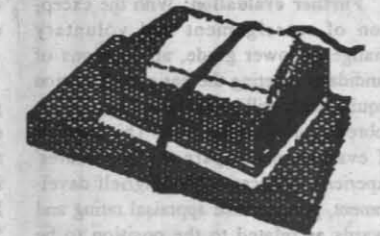
January 31-May 22, Fridays, 1530-1830; Training Center. By Professor Robert Wong, CSUN, (818) 885-2883.

Prerequisite: Some knowledge of computer operations and logic

design. **EE 425N: Microprocessor Systems** is recommended.

Scope: Microprocessor system architectures, programmable peripherals and applications at the system level will be covered, as well as microprocessor-based system design and development techniques.

Text: None. Instructor will provide copies of lecture notes to course participants.



ME 590: Advanced Fluid Dynamics (3 units)

January 27-May 18, Mondays, 1610-1910; Training Center. By Dr. Gutmark, NWC ext. 3745.

Prerequisite: ME 490: Fluid Dynamics or equivalent or consent of instructor.

Scope: This course covers analytical and computational

techniques to the solution of fluid dynamic problems. Topics covered include generalized one dimensional compressible flows, unsteady and two dimensional compressible flows, method of characteristics, compressible laminar and turbulent boundary layers, transition to turbulence, turbulent stress models and application of computational codes to the solution of practical problems.

Text: *Foundations of Aerodynamics*. A.M. Kuethe and L.Y. Chow. John Wiley, 1986. *Gas Dynamics*, Vol. 1. M.J. Zucrow and J.D. Hoffman. John Wiley, latest edition.

CS 588: Software Engineering (3 units)

January 27-May 18, Mondays, 1610-1910; Training Center. By Richard Fryer, NWC ext. 5165.

Prerequisite: Students should have experience with a programming language.

Scope: This class is intended for practitioners with degrees out-

side of computer science, but with a need for knowledge about software engineering and software development management. Many aspects of development of software as a team effort will be reviewed.

Text: *Software Engineering: A Practitioner's Approach*. Roger Pressman. McGraw-Hill, third edition.

Note: This is a core course for the master's degree in systems

engineering through CSUN.

MATH 477: Probability for Engineers (5 quarter units)

January 6-March 12, Mondays, Tuesdays, Wednesdays and Thursdays, 1130-1230; Training Center. By Dr. Wade Swinford, NWC ext. 2878.

Prerequisite: EE 350N: Linear Systems I or equivalent or consent of instructor.

(Continued on Page 23)

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Under New Management

Material engineering work earns TD Award

(Continued from Page 1)

Fountain knew something was up last Monday afternoon when his wife, Susanne, showed up at what was supposed to be a technical briefing in the Engineering Department conference room. "As I left my office, the machine answered a call, since the secretary was out. I was already in the hall when I recognized my wife's voice and started back, but my branch head pushed me on down the hall, and I didn't think anything more about it, until she showed up," he said. "Then I thought I was going to get my 35-year pin. I wasn't expecting this."

"The work on rain erosion is continuing. A particular problem is the effect of rain drops impacting the radomes on some weapons being carried on Navy aircraft. At tactical speeds, such

impacts can destroy the radome," said the materials expert. "The Air Force puts on protective glass caps that are mechanically shattered and dispersed before launch, but the Navy won't allow them on carriers, because of the potential for the caps being broken and the glass scattered on the flight deck. The only recourse now is to slow down or go around the storm, which is not always practical in tactical situations. So we are continuing to work toward hardening the windows."

He explained, the diamond growing efforts being conducted in the Research Department may be the answer, but said a useable article is still some time away.

Besides Susanne, son Christoffer and his wife, Claudia, a large group of friends and co-

workers were on hand when Technical Director Bill Porter quickly revealed the reason for the gathering.

January 15, 1992 will mark 30 years service at China Lake for Fountain.

Graduating from the University of Oregon, Eugene, with a masters degree in physics, he worked in Washington, D.C. for five years before coming to the then-Naval Ordnance Test Station.

He started in the Physics Division of the Research Department. From 1967 to 1969, he attended Stanford University on a fellowship in material engineering, and upon returning entered the Engineering Department in the Microelectronics Branch and then, the Materials Engineering Branch, where he has stayed.



TD AWARD--Cliff Fountain accepts the special block of wood symbolic of the NWC Technical Directors Award from Bill Porter, Center Technical Director.

Photo by PH3 Cary Brady

'Hospitality Kits' now offered to military families

Many military families arrive at their next duty station before their household goods arrive, while others find themselves in need due to emergency situations. Situations like this are not unusual. To help alleviate this,

the NWC ombudsman, Vickie Watts, is establishing hospitality kits for military with dependents who are without household goods. Basic household items are always needed, as well as basic furniture.

"We need items in useable conditions which will help families to get by until their own things arrive," Watts said.

People who have items they would like to donate can call Watts at 446-7845.

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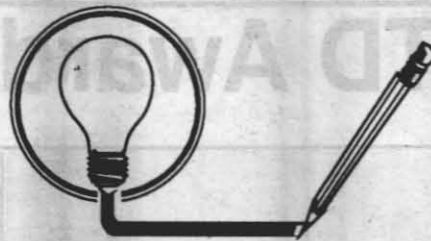
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Sometimes it's the little things that count. All good IDEAS are not great savers of cost or time - some are just plain good sense things that help make our jobs a little easier or safer. Take IDEAS No. 201, for instance. Donnie Woods (Code 051) noticed there were some hardware anchors sticking up from the floor in the basement of Wing 5 of Michelson Lab. They didn't seem to be needed anymore and were guaranteed toe smashers for the unwary. So, she passed along the information and E. Hillebrand (Code 2675) took a look and agreed it was a safety hazard. They were removed ASAP. So whether you have an IDEA which will save a bundle or will save a toe, send it in we're looking for all IDEAS - big or small.

If you have any question or need any information about the IDEAS process, we'd be glad to talk with you. You can reach Bruce MacIntosh or Melanie Truesdale in the IDEAS office at X2311, or E mail - SCF::IDEAS, or QuickMail - "IDEAS Office"

In the last week, the following new IDEAS were submitted: Idea No. 268, Timecard Revision, Vickie Jaeger, Code 3642 (Vickie suggests that the placement of the 00, 71, & 72 codes on the timecard should be the same on the bottom as it is on the top of the card); No. 269, Automatic Forms Automation, Tom Roseman, Code 31C (Tom says that the development or change of computer generated forms should be part of the normal process every time a new form is approved or an old form changed); and No. 270, Payroll Deduction for Day Care Facilities, Stu Johnson, Code 3131 (Stu wants payroll deduction for Youth Center and Day Care services so that two or more checks don't have to be written to MWR).

Other IDEAS were Idea No. 271, Overruns on Customer Orders, Tricia Hoover, Code 62102 (Tricia thinks the time allowed for "cleaning up" cost overruns should be expanded from 4 weeks to 6 weeks); and No. 272, NWC Apartment at PMTC, Catherine Doyel, Code 31902 (Catherine suggests that the Center establish an NWC Apartment in the PMTC area to accommodate some of the frequent travelers to that area).

U.S. moves to base force

(Continued from Page 2)

The second is power protection. Base Force will allow the United States to send properly supported forces to any hot spot.

The third is forward presence. While the United States will reduce the number of forces based overseas, rotational deployments, access and storage agreements, security and humanitarian assistance and other components of forward presence will increase in importance.

The fourth is reconstitution. This allows the United States to build up forces quickly in the event they are needed.

But the problem remains of drawing down military forces and still maintaining a credible military deterrent posture. Planners started looking at Base Force in 1989.

Their vision of the world in 1995 and beyond takes into consideration a much less threatening

Soviet Union, but does not ignore the fact the world is a dangerous place. Hot spots like the Middle East and Southwest Asia were taken into account when plans were made. The proliferation of modern weapon systems in Third World countries, threats of low intensity conflicts and what sort of threats could emanate from newly independent Soviet republics were also studied.

Senior leadership vowed the downsizing would be done intelligently - no one wanted a return to the "hollow forces" of the late 1970s. They parceled the forces out to meet defense obligations and to counter perceived threats. They divided the forces into four commands: Atlantic Forces, Pacific Forces, Strategic Forces and Contingency Forces.

Officials said there was much dialogue on how to phase in the new commands with the least disruption. Other factors such as fis-

cal constraints and effects of modernization of weapon systems and procedures had to be considered. Also included were proposed savings from the 1989 defense management review.

One area of particular concern to planners is configuring Base Force as a total force. The Total Force policy means the reserve components are just as important as the active components. Desert Storm demonstrated just that importance - the active components could not have done the job alone, according to officials. Using the Army as an example, planners said during the 1970s and 1980s, the Army National Guard and Army Reserve were built up to support a possible conflict in Europe. These reserve component units handled much of the support for the combat elements and were configured to handle large mechanized infantry or armored divisions.

Secretaries sought

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 1/2/3/4/7/8/9; 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. 31-030, Secretary (Typing), DG-318-1/2, Code 3144 - This position is located in the Aircraft Weapons Integration Department. The incumbent will provide secretarial and administrative support to the F/A-18 Avionics and Weapons Integration Branch, located at Armitage Field (P-302). The Branch is responsible for avionics and weapons integration for the F/A-18 Aircraft. Ability to develop proficiency in operating a Macintosh desktop personal computer is required. Knowl-

edge of word processing software is desirable. Full promotion potential of the position is DG-2. Must be able to obtain and maintain a Secret Clearance.

No. 35-028, Secretary (Typing), DG-318-2, Code 3517 - This position is located in the Weapons Effectiveness Branch of the Attack Weapons Department. Experience operating Macintosh computer and experience dealing with all levels of personnel is desirable. Must be able to obtain and maintain a secret clearance



VX-5 seeks person to fill computer equipment analyst position at NWC

No. 006-L-92, Computer Equipment Analyst, GS-334-7/9/11, \$21,023/\$25,717 / \$31,116 per year (or higher step in accordance with regulations) -- This position is with Air Test and Evaluation Squadron FIVE, VX-5, located at NWC China Lake, Calif. Incumbent works with all squadron ADP equipment and other assigned personnel to provide technical, maintenance and analytical support. Responsible for the setup, upgrade, training and maintenance for word-processing, spreadsheets, databases, presentation managers, diagnostics and network support. Provides programming support for data analysis and specialized requirements. Provides support for all squadron-owned equipment and the LAN. Responsible for the inventory, ADP Security, property management, obtaining contract maintenance, network backup, optimization of resources, virus prevention, etc. Supervises all personnel in the data processing division.

Time-in-grade requirements: For GS-7, one year as GS-5; for GS-9, one year as GS-7; for GS-11, one year as GS-9.

Qualification requirements: Applicants must have one year of specialized experience equivalent to the GS-5, GS-7 or GS-9 level, respectively. For GS-7 and 9, specialized experience is experience which is in or directly related to the line of work of the position and which has equipped the applicant with the particular knowledge, skills and abilities to successfully perform the duties of computer equipment analyst. For GS-11, specialized experience is experience which demon-

strated accomplishment of computer project assignments that required a range of knowledge of computer requirements and techniques (i.e., experience in developing modifications to parts of a system that required significant revisions in the logic or techniques used in the original development.) Additional information regarding qualification requirements may be found in Office of Personnel Management Handbook X-118.

Further evaluation: With the exception of reassignment and voluntary change to lower grade, applications of candidates meeting the basic qualification requirements will be evaluated against the abbreviated crediting plan. This method of evaluation compare the candidates' experience, education/training/self development, performance appraisal rating and awards as related to the position to be filled. Experience will be based on knowl-

edge of ADP systems, design and analysis and ADP technology; ability to analyze and evaluate problems and develop solutions; ability to communicate orally and in writing; ability to interpret written directions and instructions; and knowledge of ADP security requirements.

Note: On a separate sheet(s) of paper, as supplement to the SF-171, applicants should provide examples of their knowledge, skills and abilities applicable to each of the factors identified in the further evaluation paragraph.

To apply: Submit a SF-171, Background Survey Questionnaire, and a copy of the most recent performance rating to the Civilian Personnel Department, Training Bldg. A (North Entrance), Room 113 Naval Air Station, Lemoore, CA 93246-5046. This position will stay open until it is filled or until further notice.



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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. 62-045, **Interdisciplinary (Physicist/Mathematician/Computer Scientist)**, DP-1310/1520/1550-1/2/3, Code 62521 - This position is located in the Software Development Section, Data Branch, Data Systems Division, Range Department. The section is involved in a major development of data reduction software under a UNIX and VMS operating system and employing a DMBS for control of all data entry. The incumbent will work as a member of a skilled team of computer scientists and other professionals who are intimately familiar with the current data reduction system. The incumbent's primary responsibility will be in the area of design and implementation of graphics, image processing, and/or hardware interfacing on an HP-9000/730 super minicomputer and advance image processing systems, and provide aid in system management on the same systems. This position is physically located in the

new Instrument Lab of the Range Control Center complex. Please send current SF-171 to Joe Dorgan, Code 6252 or call NWC ext 6734 or 6724 for more information.

No. 62-046, **Electronics Engineer**, DP-855-3, Code 62342 - This position is

located in the Electri-Optical Engineering Support Section, Engineering Support Branch, Instrumentation Systems Division, Range Department. Primary duties will include hardware/software design and implementation of major subsystems for new manned tracking mount/platforms (having embedded computer control subsystems), and design and implementation of modifications to existing manned tracking mount/platforms and associated electro-optical sensors. Sensors will include conventional TV cameras, low light level TV cameras, thermal imaging infrared sensors, and laser radars. Duties include assisting operations personnel in performing diagnostic/corrective maintenance on fielded mount/platforms and sensors when necessary. Duties will also include project coordination and tracking the work performed by others. Please send current SF-171 to Les Caffee, Code 6234, NWC ext. 6422.

Branch clinic needs temporary secretary

No. 23-004, **SECRETARY (OFFICE AUTOMATION)**, GS-318-6, Code 232. THIS IS A TEMPORARY POSITION NOT TO EXCEED ONE YEAR. Civil service status is not required. This position is located at the Branch Medical Clinic, Naval Weapons Center, China Lake, Ca. and is under Naval Hospital, Occupational Health/Preventive Medicine Department, Long Beach, Ca. The incumbent will perform secretarial duties which include but are not limited to the following: maintaining OIC's calendar including coordinating and scheduling regular and special conferences, meetings and appointments; reviewing and distributing incoming mail; originating replies for general routine matters such as appointment requests, invitations to conferences, meetings, and general office correspondence; preparing all correspondence including memorandums, reports, and policies and procedures into final form. **JOB RELEVANT CRITERIA:** Knowledge of correspondence procedures; ability to organize, prioritize, and schedule workload; ability to communicate. Full performance level is GS-6.

Send SF-171 and copy of current SF-50, Notification of Personnel Action to: Civilian Personnel Office(0010), Naval Hospital, 7500 E. Carson Street, Long Beach, Ca. 90822. For additional information about the position, please contact the Personnel Department, Naval Hospital, Long Beach, Ca. (213) 420-5194.

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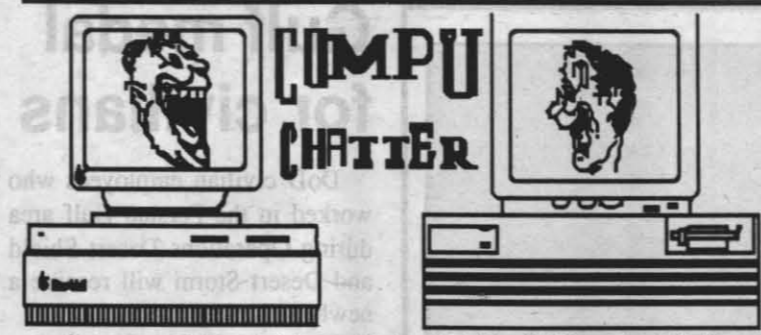
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EFFORTS APPRECIATED--Richard Knaggs, manager of the Boeing Company's Scientific and Weapons Systems Support Dept., presents a \$300 check to Randie Reno, the local Navy/Marine Corps Relief Society's chairman of volunteers. It is the policy of the Boeing Company to donate funds to the communities in which it operates. The recipients are selected locally by employees. All donations received by the NMCRS are used to assist Navy and Marine Corps service members and dependents.

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Training Hours: Wed. 4-8pm, Sat. 9am-1pm
"Personal Hands on Training"
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Wellness Corner

AHA touts heart healthy holiday meals

Do you think all holiday foods are unhealthy and laden with calories? Think again. The American Heart Association (AHA) has created 10 new recipes for its annual *Holidays a la Heart* brochure that taste great and are good for you, too. The recipes will help you enjoy a happy and truly healthy holiday.

This year's *Holidays a la Heart* menu, created for the ninth year by AHA dietitians, contains recipes for appetizers, side dishes, an entree and desserts. You'll find new dishes like turkey breast with sweet potato, stuffing and almond mushroom pate and old favorites like pumpkin pie and cranberry bread.

The *Holidays a la Heart* recipes are easy to prepare and

are low in sodium, cholesterol and saturated fat. Nutritional analysis is provided for each recipe.

Whether you're entertaining friends for a holiday party, or family for a holiday feast, you'll find all the recipes you need for a heart healthy celebration in *Holidays a la Heart*. You and your guests will be delighted to discover how delicious and nutritious holiday food can be.

Holidays a la Heart is free during the holiday season. For your copy, send a stamped, self-addressed, business-size envelope with your request to the American Heart Association, Kern County Chapter, 4904 Truxton Ave., Bakersfield, CA 93301.

Surplus government material available in today's auction

Local Auction 41-2103 of surplus government property will be held by the Defense Reutilization and Marketing Office at China Lake on Thursday, Dec. 5. The auction begins at 9 a.m. in Building 1073, Warehouse 41. The public is encouraged to bid.

Among the 237 items to be offered will be a 365 CFM air compressor, hardware, tool boxes, boring bars, parkas, engine analyzer, 1/4 inch drills, desks and chairs, vacuum pumps, shelving and pickup trucks.



TOYS NEEDED---Marine Aviation Detachment First Sergeant Hatley tells the Ridgecrest Rotary Club about the Toys for Tots drive undertaken by area Marines and the Women's Center of Ridgecrest. New, unwrapped toys can be deposited in any of the Toys for Tots donation barrels around the Naval Weapons Center or in Ridgecrest.

Photo by PH3 Cary Brady

Gulf medal for civilians

DoD civilian employees who worked in the Persian Gulf area during Operations Desert Shield and Desert Storm will receive a newly authorized medal.

The medal, said Christopher Jehn, "symbolizes the importance that the Department of Defense attaches to civilian service and recognizes the value of the civil service in helping to accomplish our nation's objectives." Jehn is assistant secretary of defense for force management and personnel.

Civilians who served in support of the operation any time from Aug. 2, 1990, through April 11, 1991, and were physically located in an area designated a combat zone are eligible to receive the medal. Also eligible are those who began working in theater after April 11, 1991, and served 30 consecutive days or 60 non-consecutive days in those areas.

Any China Laker receiving the medal, is asked to call the *Rocketeer* office at NWC ext. 3354.

Personnel News

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 Thursday, 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.

Notice Regarding Drug Testing Designated Positions

Any applicant tentatively selected for one of these positions will be required to submit to urinalysis to detect illegal use of drugs prior to a final selection. Final selection is contingent upon a negative drug test result, and thereafter the selectee will be subject to drug testing on a random basis as the incumbent of a Testing Designated Position (TDP). Further, all Department of the Navy employees may be subject to drug testing under certain circumstances such as reasonable suspicion and after an accident. All individuals will have an opportunity to submit medical documentation that may support the legitimate use of a specific drug to a Medical Review Officer. An applicant's test results will be provided to the selecting official and servicing Civilian Personnel Office before a final selection is made. A verified positive drug test of a current Department of the Navy employee will also be provided to the employing activity/command. (NAVWPNCENINST 12792.2, 14 Dec 90)

No. 22-004, Supervisory Personnel Management Specialist, DP-201-3, Code 226 - This position is located in the Human Resources Department and serves as head of the Personnel Services Division, Code 226. The incumbent will function as the Supervisor of approximately 30 personnel specialists and personnel assistants providing all day-to-day personnel services to the Center. This includes advising supervisors, managers and employees in the following areas: staffing, position classification, employee benefits, discipline and adverse actions and processing of all personnel actions. **Job Relevant Criteria:** Ability to supervise a large diverse work group; knowledge of personnel staffing and classification rules and regulations; knowledge of employee relations rules and regulations; ability to communicate effectively orally and in writing; knowledge of affirmative action principles including a willingness to implement EEO practices. Selectee may be required to serve a one-year supervisory probationary period. Full performance level is DP-3. This vacancy announcement will close on 12 Dec 91.

No. 24-025, Firefighter, GS-081-5B, Code 242 - This announcement will be

used to establish the promotion register for Firefighter, GS-081-5, which will remain in effect until March 1992. Duties include driving and operating structural pumps and a variety of crash fire trucks, responding on ambulance calls as either driver or attendant; inspecting Center's buildings and property; and conducting training classes for trainee firefighters. **Job Relevant Criteria:** Knowledge of locations (streets, water distribution, alarm/detection systems, building content and layout etc.); Knowledge of firefighting; Ability to operate firefighting apparatus and equipment, (e.g., structural pumps, crash fire trucks, pumping systems, nozzles, rescue equipment, etc.); Ability to direct (proper use of gears, clutch, brakes and demonstrated safe, smooth, effective operations of vehicles); and Ability to carry out assignments with minimal supervision. **SUPPLEMENTAL QUALIFICATION STATEMENT REQUIRED. THIS FORM IS AVAILABLE IN ROOM 100 OF THE HUMAN RESOURCES DEPARTMENT BUILDING. THE PERSON(S) SELECTED FOR THIS POSITION WILL BE SUBJECT TO URINALYSIS TESTING FOR USE OF ILLICIT**

DRUGS. SEE "NOTICE REGARDING DRUG TESTING DESIGNATED POSITIONS" IN "PROMOTIONAL OPPORTUNITIES" BOX ABOVE.

No. 31-031, Supervisory Interdisciplinary (General/Mechanical/ Aerospace/Electronics/Electrical Engineer/Mathematician/Physicist/Computer Scientist/Operations Research Analyst), DP-801/830/861/855/850/1520/1310/1550/1515-3/4, Code 3192 - This position is that of Head, A-6 Branch, Systems Engineering Division, Aircraft Weapons Integration Department. The branch provides systems and software engineering for the A-6 aircraft. As Branch Head, the incumbent directs a multi-disciplined staff which provides tactical system design, algorithm development, functional analysis, tactical software design, system and software testing and implementation for the A-6 aircraft. **Job Relevant Criteria:** Knowledge of tactical systems software including operational software development and digital computer simulation; knowledge of affirmative action principles including a willingness to implement EEO practices; knowledge of aircraft systems including avionics and the systems engineering process; ability to plan, organize,

coordinate, and manage a technical program; ability to perform as a first-line supervisor; ability to influence and motivate others. The incumbent may be required to serve a 1-year probationary period. The full performance level for this position is DP-4.


No. 31-033, Supervisory Computer Specialist, DP-334-3/4, Code 3192 - This position is that of Head, A-6 Branch, Systems Engineering Division, Aircraft Weapons Integration Department. The branch provides systems and software engineering for the A-6 aircraft. As Branch Head, the incumbent directs a multi-disciplined staff which provides tactical system design, algorithm development, functional analysis, tactical software design, system and software testing and implementation for the A-6 aircraft. **Job Relevant Criteria:** Knowledge of tactical systems software including operational software development and digital computer simulation; knowledge of affirmative action principles including a willingness to implement EEO practices; knowledge of aircraft systems including avionics and the systems engineering process; ability to plan, organize, coordinate, and manage a technical program; ability to perform as a first-line supervisor; ability to influence and motivate others. The incumbent may be required to serve a 1-year probationary period. The full performance level for this position is DP-4. This vacancy announcement will close on 19 Dec 91.

No. 35-027 Interdisciplinary Supervisory (General/Mechanical/Electrical/Electronics/Aerospace/Chemical/Physicist/Chemist/Mathematician) DP-801/830/850/855/861/893/1310/1320/1520-3/4, Code 3526 - This position is the Head, Advanced Systems Technology Branch, in the Weapons Systems Development Division, Attack Weapons Department. This branch provides a multidisciplinary engineering capability to formulate attack weapon system concepts, demonstrate feasibility of critical subsystems, conduct exploratory and advanced development, system integration and demonstration and definition. **Job Relevant Criteria:** Ability to plan, organize, coordinate, and manage a technical program; Knowledge of affirmative action principles and a willingness to implement EEO practices; Ability to deal with all levels of technical management; Ability to communicate in writing; Ability to communicate orally. A one year supervisory probationary period will be required for new supervisors. Must have a Bachelors Degree or above in Engineering, Physics, Mathematics or Chemistry or the equivalent, please contact Brenda or Bonnie at X3118 for more information. Incumbent must be able to obtain and maintain a secret clearance. Promotion potential to DP-4, but not guaranteed. **This AD will close December 12, 1991.**

No. 36-036, Supervisory Operations Research Analyst, DP-1515-3/4, Code 36251 - This position is that of Head, Systems Engineering Section in the Missile Guidance Branch, Systems Engineering Division, Engineering Department. The

section conducts analysis of strike and anti-surface weapon performance and requirements. The incumbent will be responsible for the management, supervision, administration and leadership of the section and for significant technical duties. Extensive travel is required. **Job Relevant Criteria:** Knowledge of strike and anti-surface warfare weapons, delivery systems, operations, and testing; knowledge of strike analysis methods; knowledge of current technology developments related to strike weapons; knowledge of missile guidance; ability to plan, organize, coordinate, and manage a technical program; knowledge of affirmative action principles including a willingness to implement EEO practices; ability to communicate in writing. The ability to obtain and maintain a Top Secret Clearance is required. The individual selected for this position will be subject to urinalysis testing for the use of illicit drugs. See "Notice Regarding Drug Testing Designated Positions" in "Promotional Opportunities" box. The selectee may be required to serve a one year supervisory probationary period. DP-4 promotion potential but not guaranteed. This announcement closes 12/19/91.

No. 62-047, Supervisory Interdisciplinary (Mathematician, Physicist, Computer Scientist), DP-1520/1310/1550-3/4, Code 6252 - The head of the Data Branch must supervise seven mathematicians, physicists, and computer scientists in the extraction of information from test range instrumentation. The Range Department (Code 62) of the Naval Weapons Center is dedicated to the testing and performance evaluation of aircraft, weapons and weapon systems. Presently, in this testing activity, 35-mm film cameras, video cameras, radars and lasers are used as predominant data sources. The data Branch, Code 6252, is responsible for the post-test production and/or evaluation of data products from all of the above test range instruments. In this post-test data reduction activity, Code 6252 provides TSPI (time space position information) and instrument evaluation information in the formats desired by test range customers. **Job Relevant Criteria:** Knowledge of range testing and range field instrumentation; knowledge and experience in project management; knowledge of NWC personnel policies and procedures and a willingness to implement EEO policies and goals; ability to deal effectively with technicians, specialists, and professionals, as well as other DOD and contractor personnel. This position requires that the employee be able to obtain and maintain a Top Secret Clearance. Any applicant tentatively selected for this position will be required to submit to urinalysis for illegal use of drugs prior to a final selection. See "Notice Regarding Drug Testing Designated Positions" in "Promotional Opportunities" box above. A one-year supervisory probationary period may be required for new supervisors. Previous supervisory experience desirable. Promotion potential to DP-4. This ad will close December 19, 1991.



Personnel from the Human Resources Department wish everyone a Happy Holiday Season



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Sports

Tournament winners bring home the \$\$\$\$

Ken Davis and Karen Schortzmann took the top honors during Hall Memorial Lanes' No Tap Bowling Tournament held Nov. 23. Davis' total score of 856 earned him \$100 and a new Hammer bowling ball. Schortzmann took home \$70 for her handicap score of 759.

According to Bill Booth, manager of Hall Memorial Lanes, the difference in prizes was due to the number of players in each division. The Men's Division had 24 players, resulting in a prize fund of \$240, while the Women's Division only had 11 players, resulting in a prize fund of only \$110. "I had to have at least 20 players to award a new bowling ball," Booth said. "The Men's Division met that quota, but there weren't enough women participating for me to be able to afford to give them a new ball."

In the Men's Division, second place and \$60 went to Mike Biebl, who bowled a 761. Third place, and \$40, went to John Eckart, who bowled a 744 for the three-game series.

Nada Killgore took second place in the Women's Division with a three-game handicap total of 728. Her portion of the prize fund was \$40.

Booth noted that he wants to hold this type of tournament each month. "The more players, the bigger the prize fund," he emphasized. Cost is \$15 per person, with \$10 going into the prize fund and \$5 offsetting operational costs.

For the date of December's tournament, call Booth at NWC ext. 3471.

Run/walk honors Pearl Harbor

In remembrance of those who served to preserve America's freedom, the Naval Weapons Center's Morale, Welfare & Recreation Department has joined forces with the VFW, Chief Petty Officers' Association, Fleet Reserve Association and the American Legion in hosting the Pearl Harbor 50th Commemorative 5K Run/Walk. The fun starts at 10 a.m. on Dec. 7 in Solar Park (by the Seafarer Club). Each entrant receives a commemorative t-shirt,

while first to third place prizes will be given in the men and women categories. The first place prize is \$25, while the second place prize is \$15, followed by a \$10 third place prize. Refreshments will be served following the event!

Fees are \$11. This event will benefit the Pearl Harbor Survivors Association.

For more information, call Elaine Arnell, MWR Sports director at NWC ext. 6542.

Fun shoot planned at trap range

Attention shooters! The China Lake Trap and Skeet Club invites you to participate in a fun shoot at the China Lake Trap Range on Saturday, Dec. 14. The fun starts at 11 a.m.

Prizes will be awarded for best scores and for those who are interested, there will be a cash turkey shoot.

You don't have to be a member of



the club to participate in this event. However, if you would like to join the club, the annual membership fee is \$10.

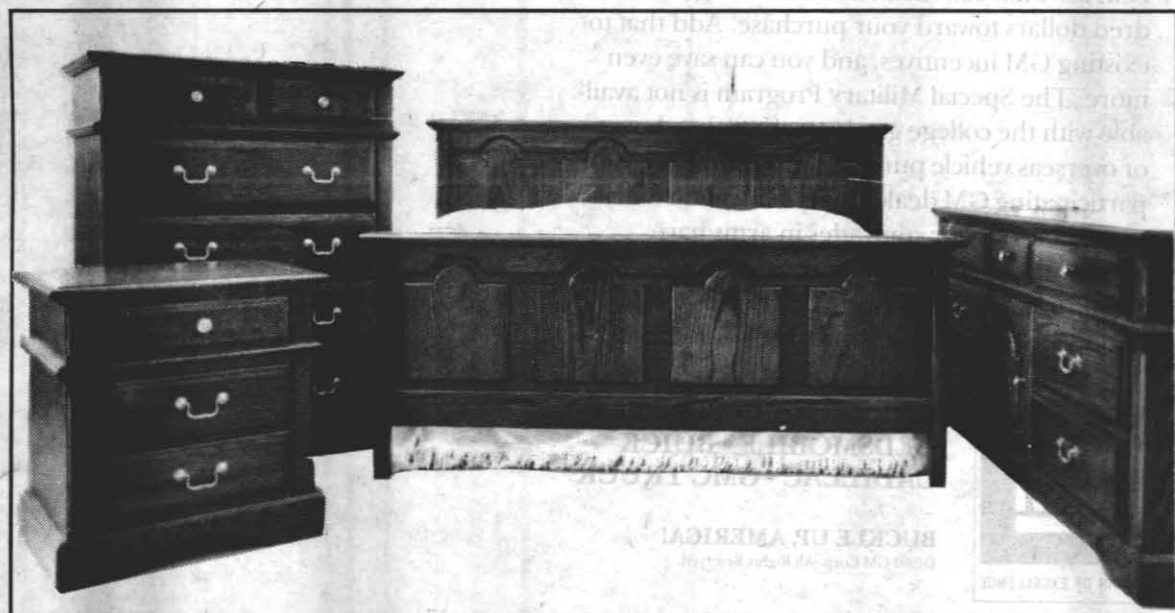
For more information about the club, the shoot, or how to get to the trap range, call Chris Johnson at 375-7358, Joe Lelis at 375-8715 or NWC ext. 1220, or Rick Shedlock at 375-4354 or NWC ext. 6342.

Basketball tryouts set for tonight at NWC Gym

Tonight is the last night to try out for the NWC Varsity Basketball team. The tryouts will be held from 8 to 9:30 p.m. at the NWC Gymnasium.

For further information about the league, call Elaine Arnell, Morale, Welfare & Recreation Department's sports director, at NWC ext. 6542.

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Low-cost seeker team reaps its reward from NWC

Successfully completing the Critical Design Review (CDR) and assisting in the release of the first complete build (Version 2.2) of the Full Scale Engineering Development (FSED) tactical software resulted in a team award for the Naval Weapons Center's Harm Low Cost Seeker (HLCS) Software Development Team. Captain Douglas W. Cook, NWC Commander, and Bill Porter, NWC Technical Director, presented the awards recently.

Members of the HLCS Software Development Team being honored were Charles T. Bankston, Russell L. Finney, Richard A. Fowler, Sandra E. Giles, Janet L. Hine, John B. Seybold, Mickey L. Speck and

Daniel M. Wright.

"The successful completion of the Critical Design Review and transfer of software responsibility to Loral Aeronutronic (formerly Ford Aerospace) is a major milestone in the HLCS program," read the citation accompanying the award. "The successful demonstration of the software maturity is evidenced by the two contractor test and evaluation firings completed in January 1991."

According to Paul Homer, head of the Attack Weapons Department, the Version 2.2 software release was the product of the partnership of NWC and Loral design teams. "The design was primarily the result of NWC efforts as presented at the CDR

and provided to Loral in the design documentation," noted Homer. "The coding was a joint effort and the testing was primarily a Loral effort. The excellent working relationship between the

Center and Loral was determined to be an exceptional finding at the Naval Air Systems Command-conducted HLCS Production Readiness Review on Nov. 14-16, 1989."

TEAMWORK IS SUCCESSFUL -- Members of the Harm Low Cost Seeker Software Development Team were honored for successful completion of the HLCS Critical Design Review. Receiving the awards were (l to r) Richard A. Fowler, Charles T. Bankston, Daniel M. Wright, Russell L. Finney and Janet L. Hine. James Martin accepted the awards for Sandra E. Giles, John B. Seybold and Mickey L. Speck.



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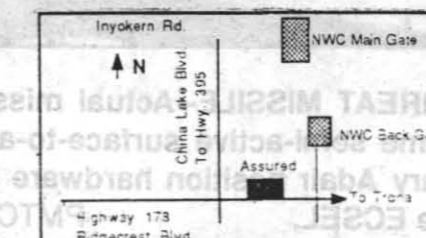


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Pt. Mugu Close Up

by Brad Coler
Electronic Warfare Systems, PMTC

Naval aviators who flew missions in Operation Desert Storm depended upon their onboard electronic warfare

Environment Simulations (EWTES) or Echo Range at the Naval Weapons Center.

Occupying 10,000 square feet of high-security radio frequency (RF) shielded space in the EW Systems Lab at

During the Desert Shield phase of the Persian Gulf war, the ECSEL operated 24 hours a day, seven days a week in support of the Electronic Warfare Software Support Activity for preparation of software

updates that optimized performance of Navy EW systems against specific air defense systems they would encounter in the Persian Gulf.

One of the major development programs tested in the lab is the Advanced Self Protection Jammer (ASPJ). The ECSEL has supported all phases of ASPJ development from advanced development model to production verification version currently undergoing laboratory testing. Once ASPJ is incorporated into the fleet, the ECSEL will test software changes developed by the Electronic Warfare Software Support Activity.

The test approach in the lab incorporates actual EW system hardware interacting with threat simulators. The simulators operate in real time at actual frequencies and power levels. Open loop RF environment simulators provide high signal densities which model emitter characteristics of threat systems such as airborne, land-based and shipboard radars, as well as active command guidance signals for

some missile systems.

Closed-loop simulators provide high fidelity replication of complete radar directed weapons systems so effectiveness of active jamming responses can be measured. They also include missile hardware simulation for semi-active threat systems.

A scenario control computer with associated aircraft cockpit and flight controls provide means to coordinate the simulators and incorporate realistic flight dynamics in the test process. This allows the EW system to be "flown" in lab scenarios representing the electromagnetic environment encountered in actual combat or scenarios to stress the EW system to its limits.

The EW successes in Operation Desert Storm provide strong evidence facilities such as the ECSEL are an effective means of ensuring Navy EW systems perform well, minimizing casualties and allowing aviators to complete their mission.

(Furnished by the *Missile* at PMTC, Pt. Mugu.)



SIMULATOR--Todd Sohn (left) Chuck Bradley (center) and Peter Kobashikawa use the ECSEL simulators to evaluate the effectiveness of jamming threat radars.

(EW) equipment to provide them with accurate assessments of lethal radar-guided threat weapons and jamming responses which deceived, or otherwise reduced the threats' ability to engage.

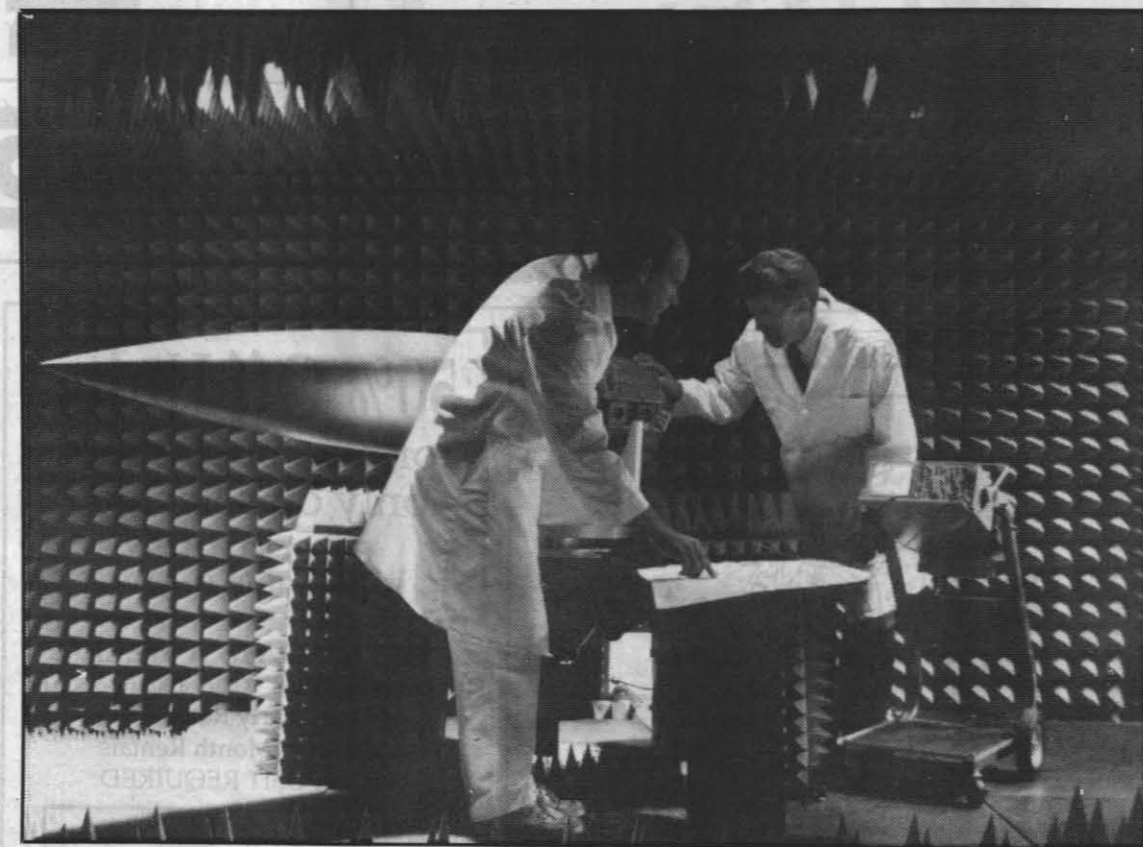
The Electronic Combat Simulation and Evaluation Laboratory (ECSEL) plays a significant role in development and preparation of EW systems that assist Navy aircrews in successfully performing their missions.

The ECSEL at PMTC, Pt. Mugu, provides the capability to evaluate EW equipment through simulation of hostile radar systems with instrumentation of determining the effect of EW on the overall operation of the threat system. As part of the multi-phase test and evaluation cycle, the ECSEL provides indoor, bench-level, test capability complimentary to the outdoor flight test capability of the Electronic Warfare Threat

PMTC, the ECSEL houses threat simulation, instrumentation and computer resources required to perform developmental test and evaluation of new EW systems and techniques, integration of EW components and subsystems and testing of new software revisions of EW systems presently deployed on fleet aircraft.

Commonality between simulations on Echo Range and in the ECSEL make the laboratory and efficient facility for troubleshooting EW system problems revealed during flight test on Echo Range.

The ECSEL has supported the evaluation of radar warning receivers, jammers and other EW equipment for Navy and Marine Corps aircraft including F-14, F/A-18, EA-6B, AV-8B and A-6. The lab has also been used by the Army for helicopters, the Air Force, for EW pods and several foreign countries.



THREAT MISSILE--Actual missile hardware is used in the simulation of some semi-active surface-to-air missile systems. Scott O'Friel (left) and Gary Adair position hardware in one of the threat simulator chambers in the ECSEL. PMTC Photos



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While these GM divisions already have incentive plans in place that help make it easy to buy a new car or light truck, the Special Military Program makes it even easier.

Under the program, you get three hundred dollars in down-payment assistance, plus any additional down payment you make is matched up to five hundred dollars when you buy a new GM car or light truck and finance it through GMAC. That can mean as much as eight hundred dollars toward your purchase. Add that to existing GM incentives, and you can save even more. The Special Military Program is not available with the college graduate, first-time buyer or overseas vehicle purchase programs. See your participating GM dealer for qualification details.

Many of your comrades in arms have already taken advantage of the GM Special Military Program. So visit your GM dealer today, and see how much we appreciate your efforts.



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MWR brings "Holiday Magic" to the children



This year, the Morale, Welfare & Recreation Department have a number of treats for children. Enjoy "Holiday Magic for Kids" at the Children's Holiday Party, Breakfast With Santa and the Kids New Year's Eve Party.

Children of all ages should enjoy "Holidays Around the World at the Children's Holiday Party" set for 6 to 10 p.m. on Dec. 7 at the Youth Center. Children under five must be accompanied by an adult. Fees are \$3.50 for military dependents, \$4.50 for DoD dependents and \$5.50 for children of private citizens.

Children and adults will enjoy a buffet brunch with all the trimmings during the **Breakfast With Santa** planned for Saturday, Dec. 21, from 9 a.m. to 12 noon at the Seafarer Club. Tickets are avail-

Watch *The Nutcracker Ballet* at NWC

Just in time for the holidays, the Morale, Welfare & Recreation Department is proud to sponsor the Pacific American Ballet Theatre, Inc.'s production of *The Nutcracker Ballet*, set for 7:30 p.m. on Dec. 13 at the Naval Weapons Center Station Theatre.

Enjoy Sunday brunch at the Seafarer Club

Don't forget to start your week off right with Sunday brunch at the Seafarer Club. Each Sunday, the club offers a variety of food from 10 a.m. to 1 p.m.

The cost is for this all-you-can-eat feast is only \$5.95 for adults (age 12 years old and older) and \$3 for children (age 4 to 11 years old). For more information, call NWC ext. 2581.

Tom Blackmore, head of MWR, said the Los Angeles-based ballet troupe does an excellent job on this holiday season classic ballet.

the Craftech Center. Tickets are \$6 for adults and \$4 for children under 12 years of age.

For further information, call Debra Poindexter, MWR publicity director, at NWC ext. 2602.

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Motorists beware!

The law requires drivers to stop for pedestrians at intersections

(Editor's note: Christa Haney, a child caregiver with the Child Development Centers at China Lake contributed to this story.)

Motorists beware! Staff and children from the Naval Weapons Center's Child Development Centers are increasing their use of the crosswalks near the intersection of Lauritsen and Blandy while their new playground equipment is being installed by members of the Marine Aviation Detachment at China Lake.

According to Christa Haney, a child caregiver at NWC, the construction will take at least another month and the children need to go elsewhere to play and run.

However, Haney has noticed that some motorists are not stopping for the children to cross the street, while others are not wait-

ing until the children are completely across before continuing on their way. "The older children (4 years) sometimes ride their bikes and the youngest (18-24



months) can walk incredibly slow," she said. "Every group of children needs each driver's utmost consideration and patience. Young children are

sometimes unruly and don't always stay in neat rows. Therefore, we request drivers to come to a complete stop and wait until all the children and caregivers are completely out of the crosswalk."

James Adams, head of the Safety and Security Department's Police Operations Branch, noted that California Vehicle Code 21950, Subsection A, states that drivers shall yield the right of way to pedestrians using marked or unmarked crosswalks at intersections. "We are aware of the situation," he said, "and we will be keeping a close eye out. Motorists not yielding the right of way will be cited, not warned."

"We are very grateful to the drivers who are stopping for us at the crosswalks," said Haney. "We appreciate their patience and consideration for our safety."

Seafarer Club offers holiday baking

Save times during the holidays this year and let the Seafarer Club do the baking!

Enjoy freshly made baked goods from now through Dec. 20. According to Fred Garcia, the club's manager, the items are made freshly made each day.

To ensure adequate preparation time, a 24-hour notice is required.

- Items available are:
- Cookies (variety) -- \$2.50 per dozen
 - Muffins (variety) -- \$3 per dozen
 - Holiday cupcakes -- \$3 per dozen
 - Hot croissants with butter & jelly -- \$5.50 per dozen
 - Nut bread (loaf) -- \$2.75 each
 - Hot fruit pies -- \$6 each

Walnut custard pies -- \$5 each.

Start preparing your orders today and have some extra time during this holiday season.

Call NWC ext. 2581 to place your holiday orders.

Listen to Music of the Night

Music of the Night, a solo and choral ensemble concert featuring selections from a variety of Broadway hits is set for the Naval Weapons Center's Station Theatre on Dec. 20 and 21. The Burroughs High School Music and Drama benefit, featuring students from San Diego and San Francisco, will start at 7 p.m. on both nights.

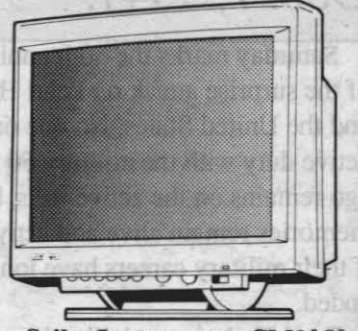
Tickets are now available at the Craftech Center. Prices range from \$10 for orchestra seating to \$4 seating in the rear of the theatre. For more information, call NWC ext. 3252.

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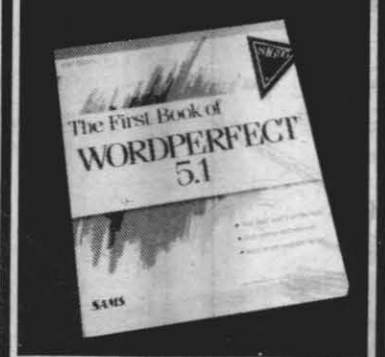
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Pearl Harbor; 50 years after the 'day that will live in infamy'

Ridgecrest area veterans recall a fateful December morning in 1941

There was no Naval Ordnance Test Station (NOTS) on December 7, 1941. But, the events of that day were among the first signs the U.S. Navy needed a place such as NOTS in an isolated part of the country. Dubbed "a day which will live in infamy," by President Franklin D. Roosevelt, the attack on Pearl Harbor that fateful Sunday morning forever changed not only the country, but the face of the desert in the Indian Wells Valley.

Veterans can never forget where they were on Sunday, Dec. 7, 1941.

Saturday marks the 50th anniversary of the surprise attack on Pearl Harbor and the United States. No one on active duty with the military 50 years ago remains on the active rolls, but memories remain alive and active even if their military careers have long since ended.

Pearl Harbor, much like the assassination of President Kennedy in 1963, is one of those special events in the course of history that even people who weren't on the scene remember where they were and what they were doing when they first heard about the sneak attack on Hawaii.

Ernie Mangrum survived the attack on Pearl Harbor, but his ship, the *USS*

Many of the *West Virginia's* sailors were dressed in their whites, ready for Sunday church services set to start soon. Despite severe damage and an actual sinking, the mighty battleship was refloated and eventually rejoined



Bud Hiser

the U.S. fleet late in the war.

Ben Tidwell had just arrived in Hawaii on Dec. 1 from Cuba. The former Marine was quartered in a tent city, just below a runway at Hickham Field. Marines were there waiting for transport to U.S. outposts in the Pacific including Midway, Wake and Johnson islands. He was shaving, getting ready for chow when he heard the first explosions. He thought it was the Air Corps on maneuvers until assembly was called and a Japanese plane strafed their camp.

Wally Baker was a young sailor on the *USS Fuller*, a transport loaded with troops for Caribbean outposts when they heard. Baker's first reaction was to think it was a spoof, similar to Orson Wells' radio invasion by Martians. In fact, he bet a shipmate \$5 it was a hoax. He lost the \$5. He later saw action onboard the *USS Elliott* during the invasion of Guadalcanal. Baker, who joined the Navy at 17, retired in 1968 with nearly 30 years active service.

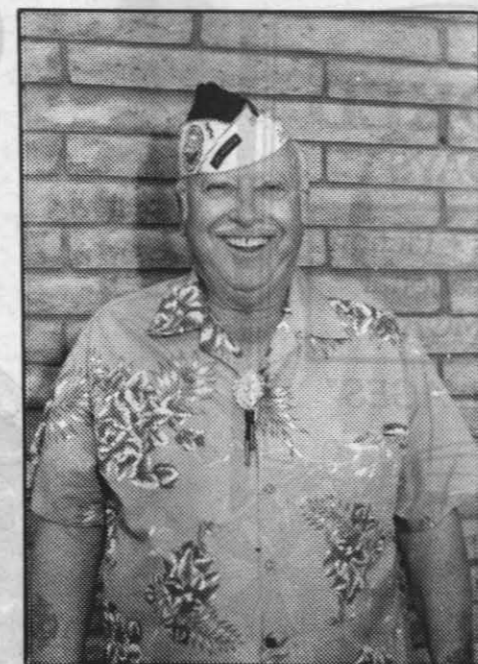
Jim Elliott was just 15 years old, living in Minnesota, when war broke out. He remembers being surprised because Japanese diplomats were in the country talking about peace when

the attack came. Elliott joined the Navy in 1943 and was trained as a signalman. During the last years of the war, he saw duty in the South Pacific and ended his military career with occupation duty in Japan.

Charles Clark was riding a motorcycle in the Mt. Baldy area of Southern California on Dec. 7. He was with his brother, a sailor who was in uniform. As they went from Mt. Baldy to Azusa, a police officer pulled them over and gave them the word on Pearl Harbor. His brother, William, had to go back to San Diego right away, but not before his mother made him eat one last home-cooked meal. Charles Clark entered the military in 1942 and saw action in Europe.

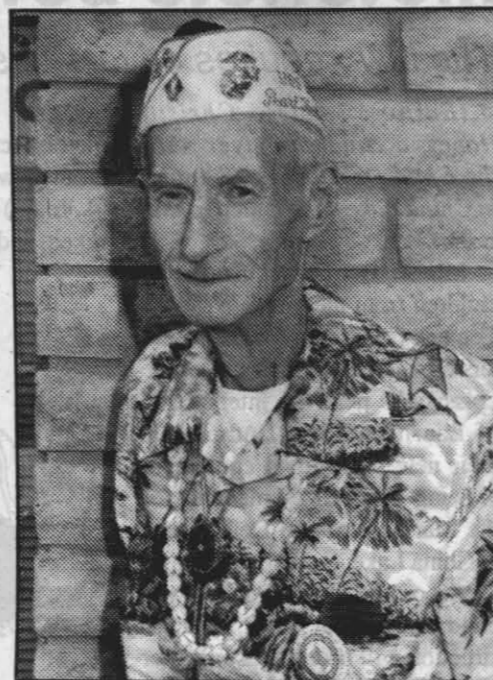
Another Marine veteran, Bud Hiser, was staying in Marine transit quarters and was in line to go on liberty Sunday morning when bombs, torpedoes and gunfire began to rain down on Pearl Harbor. He went to the fleet's landing and recalls firing some rounds from his Enfield. He stayed there all night, helping with the wounded.

James McCorkle left the Navy for the construction industry after the war, but was among the wounded during the bombing of Hawaii on Dec. 7. Assigned to the Kaheohe Naval Air Station on Oahu, he got a shrapnel wound to the stomach as he ran toward his battle station in Hangar One. The wound didn't stop him from jumping in a boat to rescue survivors of the attack.



James McCorkle

As a seaman first class, he saw extensive duty in the Pacific, participating in 13 invasion fleets.



Bill Smith

In Perry, Iowa, it was after noon on a Sunday morning when 15-year-old Bob (Corny) Cornelius came out of the local theatre and found the streets alive with people, all taking about Pearl Harbor. He recalls the atmosphere was not one of fear or dread, but people were excited and wanting to get in on

Pearl Harbor Survivors Association remains active in Indian Well Valley.

the action. Corny entered the Navy in June of 1944, came to NOTS in October of that year. The owner of Corny's Shoes has been a Ridgecrest fixture ever since.

A Marine, Bill Smith at first thought the planes zooming in and making all the noise was just part of another Navy drill. Then he saw a Japanese bomber level out over the battleship *Oklahoma* and he thought "this is for real." When he couldn't get a five-inch gun to work well, he went to the assistance of an anti-aircraft gun crew on the *USS Maryland*. Struck by two bombs and machine gun fire, the *Maryland* suffered only moderate damage and few casualties. She was back in action early in the first full year of the war.

Other members of the Indian Wells Valley Chapter of the Pearl Harbor Survivors Association, who gathered to talk to the media, include Doug Frisbie, who was on Ford Island 50
(Continued on Page 15)

(Continued from Page 14)

years ago. Victor Besancon who was a member of the Navy's Patrol Wing Two, Robert Campbell with Patrol Squadron 22; Edward Kuletz with Patrol Squadron 23 and Quentin Dalton are all Navy vets of Pearl Harbor. Duane Stevens was a member of the old Army Air Corps.

On that fateful Sunday morning in 1941, six Japanese aircraft carriers launched the attack that changed the world forever. The 353 aircraft of the Japanese fleet brought about not the hoped for demoralization of the United States, but rather awakened and angered an entire nation. It took nearly four years of brutal, bloody combat before the shooting stopped and peace reigned once again.

It's been fifty years and the world has changed dramatically, but Pearl Harbor survivors and people old enough to remember Dec. 7, 1941, have little trouble vividly recalling that day, in some cases, even if they would rather not.

Statistics don't tell true story of Pearl Harbor

•U.S. ships destroyed: Battleships *Arizona, Oklahoma*; target ship *Utah*.

•U.S. ships sunk but salvageable: Battleships *West Virginia, California, Nevada*; destroyers *Cassin, Downes*; mine-layer *Oglala*.

•U.S. ships damaged: Battleships *Maryland, Tennessee, Pennsylvania*; cruisers *Helena, Honolulu, Raleigh*; destroyer *Shaw*; seaplane tender *Curtiss* and repair ship *Vestal*.

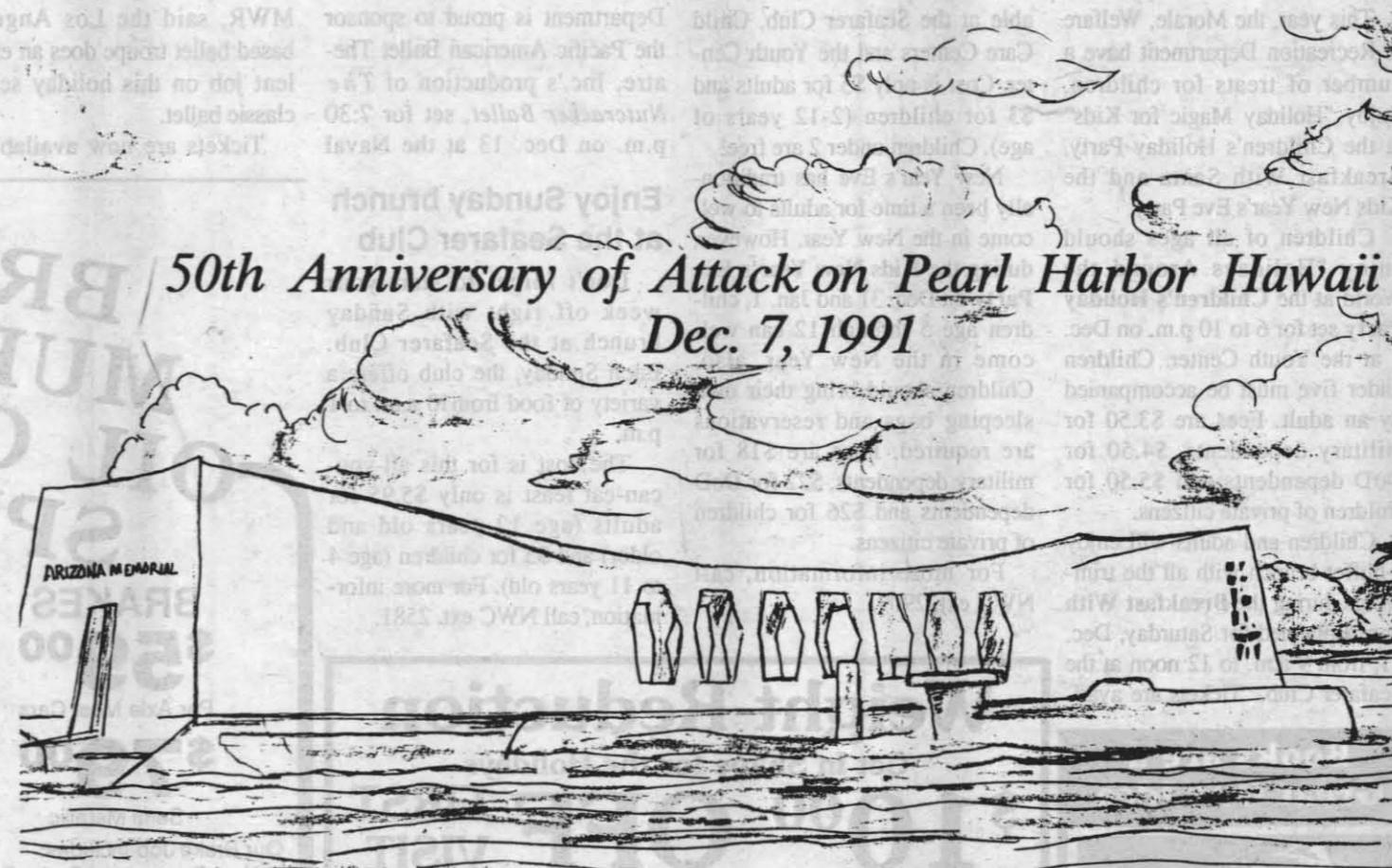
•U.S. aircraft losses, 155 of 279 total aircraft at Oahu air bases were destroyed or damaged.

•U.S. casualties were 2,403 killed, including 68 civilians and 1,178 wounded.

•Japanese losses: 5 submarines and 29 aircraft.

•Japanese casualties: 64 killed.

Worst of all, from the U.S. standpoint, there were only three aircraft carriers, one seaworthy battleship, a handful of submarines and about 30 destroyers standing between the Japanese Navy and the U.S. mainland. But the Japanese didn't know it and the rest is history.



SUCCESS ON THE WAR FRONT OFTEN DEPENDED ON MORALE OF THE HOME FRONT

Morale on the American Home Front during World War II was almost as important to the war effort as the morale of those spitting down the gun sights on the front lines.

The United States had slowly begun to turn itself into the "Arsenal of Democracy" by the time the Japanese bombed Pearl Harbor in 1941. The attack galvanized American public opinion, and soon there was no sacrifice too great for civilians.

The folks at home felt they had a duty to support their country while those in uniform were away. Everyone took part and even some women left the house to take jobs vacated by service-bound husbands and sons. In one miraculous tale, a shipwrecked sailor, finally plucked from choppy Pacific waters, discovered that the life belt that kept him afloat in those perilous hours was manufactured, inspected and packed by his own mother.

The loss of manpower at home, however, still caused many small businesses to close, as the signs on the boarded-up windows read, "For the Duration."

Rationing of food, fuel, rubber, cigarettes, alcohol and paper started. It became a chore to find objects made of metal; bobby pins were virtually nonexistent. Youngsters across America took part in neighborhood scrap metal drives to gather raw material for the war factories.

Rationing even hit the world of fashion. Nylon fabric went to war, and women's stockings were not available. Women had to make do with leg makeup. Since there were

no seamless stockings at the time, many created the illusion of a seam by drawing a line down the back of their legs with eyebrow pencils.

Everywhere, signs confronted Americans exhorting them to "Use it up! Wear it out! Make it do! Or do without."

Most Americans muddled through the shortages with no

complaint. Almost every American had relatives fighting at the front, and gripping about rationing and scarcities seemed trivial when viewed alongside the risks service members were running.

Anyone who did start to complain about life on the Home Front got asked the ubiquitous question, "Don't you know there's a war on?"

