



DANCE TO THE SOUND--of Kontakt tonight at the Summer Party sponsored by the Junior Professional Recreation Committee. Set to start jumping at the Officers' Club at 8 p.m.

Community Events

Yes! *West Side Story* is finally here! Auditions for this wonderful musical drama begin on Monday, July 31, at 6 p.m. at Cerro Coso Community College and continue for the next three evenings, Aug. 1-3. Auditioners will need a prepared song which will demonstrate vocal range and quality and be prepared to perform basic dance steps. For those auditioning for principal parts, improvisational sketches will also be requested. Performances of *West Side Story* will be held Nov. 3, 4, 10, 11, 17 and 18. For further information, call Ken Austerman at 375-5529.

Gary Becker of Richmond, CA will bring a collection of his acrylic paintings entitled "End of the Old Ways" to the Sylvia Winslow Gallery of the Maturango Museum.

This exhibit will begin Aug. 4 and continue through Aug. 30. A preview reception of the artist for museum members will be held Aug. 3 from 7 to 9 p.m. At this time Becker will conduct a demonstration by drawing symbols on a large surface of paper and talk about their meanings. By constructing a drawing, he will show how these symbols are put to use in his art.

Becker's works have been exhibited in numerous museums, galleries, universities and coporations in northern California. His philosophy that "art is serious PLAY!" gives him a rapport with students from pre-school to PhD.

A percentage of the sale of his paintings will benefit the museum. Admission for adults is \$1 and 50 cents for children. Admission for members is free.

IWV's Genealogical Society will host Wendy Elliot, nationally known speaker and author, along with Kathy Saffell and Joyce Hibberts in a series of lectures for advanced and intermediate researchers tomorrow, July 29, at the Heritage Inn. Registration begins at 9 a.m. Fees are \$12 at the door, \$10 for advance registration and \$8 for society members.

Elliot is a certified genealogist and genealogical lecturer who travels throughout the United States doing on-site research, presenting seminars and lecturing at local and state meetings and national conventions. She is executive vice-president and research director for Lineages, Inc., a genealogical research company based in Salt Lake City, Utah.

Hibberts has been an active genealogist for eight years. During that time, she has worked with the Indian Wells Valley Genealogical Society and the local Family History Center. In addition, she owns and operates a genealogical research service and bookstore and copy shop with her husband, Mark.

Saffell, a local genealogist, has written five books on her family history and two genealogy how-to books. She has been a genealogical librarian for nine years and has taught several classes in beginning and intermediate genealogy.

For more information or to pre-register, please call 375-6736 before July 25.

Everyone is invited to have fun at party

New Junior Professionals (JPs), former JPs and anyone interested in having a good time and meeting new friends are invited to attend the annual JP Summer Party tonight (July 28) at the Officers' Club. The evening will begin with a Get Acquainted, Welcome Aboard for new JPs at 6:30 p.m. and the party will begin at 8 p.m.

Tickets are \$4 until 8 p.m. tonight, afterwards the price goes up to \$5. New JPs can purchase tickets for only \$3. The evening includes unlimited beverages and munchies, volleyball and dancing to live music. The party, which is sponsored by the JP Recreation Committee, presents an excellent opportunity for the new professionals to meet new friends.

Tickets are available at the Professional Recruitment Office, Room 233, Civilian Personnel Building until 4:30 p.m. today.

Tickets can be reserved by calling NWC ext. 3371. Tickets are also available from Mike Coe, NWC ext. 1492; Mark Lambert, NWC ext. 1130; or may be purchased at the door.

Desert Empire Fair dates are Sept. 6-10 Entries for the Desert Empire Fair must be submitted by August 19

Watch us shine in '89 at the Desert Empire Fair, Sept. 6-10. Premium books, entry forms and schedule of events are now available.

All those fruits and vegetables that you grew to perfection in your garden, that you spent hours canning and making into jams and jellies - enter them in the PRESERVED GOODS CATEGORY. All those wonderful looking and delectable tasting cakes, pies, and cookies - enter them in the BAKED FOODS DIVISION. Everyone says that you can whip up the most mouth-watering, sumptuous looking pie that they ever tasted - enter it in the PIE

BAKING CONTEST. All those beautiful afghans, bedspreads, rugs, quilts, baby items and clothing that you have made for your family and friends - now is the time to show them off, enter them in the CLOTHING AND TEXTILES CATEGORY. Then there is the FINE ARTS DIVISION - oil painting, water colors, acrylics, drawing, ceramics, stoneware, porcelain and hand-crafts - these categories are open to amateurs, professionals, seniors and juniors. Bring these precious treasures to the Fair, share them with all of us before you give them to the fortunate few who will enjoy them forever.

Entries in all categories must be in by Aug. 19 with the exceptions of LIVESTOCK, HORTICULTURE/FLORICULTURE and the HORSE SHOW entries. All entries for LIVESTOCK must be in by Aug. 4; HORTICULTURE/FLORICULTURE entries must be in by Aug. 16. For container grown plants, artistic design and special exhibits - all other flower entries must be in by Aug. 31 and entries for the HORSE SHOW must be in by Aug. 25.

The office at the Fairgrounds is open weekdays from 8-5. Call 375-8000 for further information.

Mammoth Lakes plans festival fun

Mammoth Lakes is holding its 12th Sierra Summer Festival Celebration in August. Starting off with a Jazz Weekend, a Classical Week; an Evening for Families; Foot Stompin' Night; Folk Legend; and Rock 'N Roll.

For ticket information write to Sierra Summer Festival, P.O. Box 7710, Mammoth Lakes, CA 93546 or call (619) 934-2712.

Weather Report

	Max	Min	Gusts
Thurs.	115	79	25 knots
Fri.	109	83	33 knots
Sat.	110	79	27 knots
Sun.	111	75	21 knots
Mon.	109	72	24 knots
Tues.	113	76	17 knots
Wed.	109	72	20 knots

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THE ALPHA HAS FEWER PARTS THAN OTHER POOL CLEANERS! SO FEWER THINGS CAN GO WRONG! COMPARE FOR YOURSELF!

Automatic Pool Cleaner	Number of Parts*
Baracuda® ALPHA®	18
Arneson® Pool Vac™	96
Polaris® Vac-Sweep 180™	98
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*Head only

DESERT MIRAGE POOLS • SPAS • STOVES
212 Balsam 375-4818

NWC Rocketeer

Naval Weapons Center, China Lake, California 93555-6001

Vol. XLIV, No. 30/July 28, 1989

Capt. John Burt remembers Navy career and 'three outstanding years' at NWC

When Capt. John Burt retires from the Navy and leaves the Naval Weapons Center on Aug. 7, he takes with him the memories of three outstanding years at China Lake and 28 years in uniform. "Nothing could surpass three years as commander of NWC. It's been fun, challenging and rewarding," he said during an interview with *The Rocketeer*.

Commander of NWC since Aug. 13, 1986, Capt. Burt will trade the silver eagles of a Navy captain for civilian status and become special assistant for systems acquisition and program management to the administrator of the Federal Aviation Administration (FAA). NWC's Skipper says his new assignment is exciting and challenging.

"I'm going to take the skills I've developed in the last 12 years of Navy acquisition to the FAA," said Capt. Burt. Among his tasks with the FAA will be procurement of the new automated air traffic control system. This, he notes, is a multi-year, multi-billion dollar procurement.

While he looks forward to the new challenge and a new civilian career, the Skipper says he will miss China Lake, Ridgecrest and the people who help make the Indian Wells Valley special.

"I've really enjoyed being part of this community. Ridgecrest is a nice place with a lot of forward-looking people. I've had the opportunity to meet and get to know a lot of people not connected with the base and have found that rewarding," added Capt. Burt.

I encourage people here to always look to the future...and meet the challenges ahead...Capt. Burt

Looking back at three years of command, Capt. Burt feels the most significant accomplishment was "the formation of the top management executive steering group and the work we've done to focus on our mission...and the resources needed to complete that

mission.

"What has been most exciting to me is to see the spread of communications between and among the significant managers of NWC...I like to think I've brought them closer together, resulting in increased synergism for NWC."

Reorganization of the Naval Weapons Center last year brought about two key changes according to Capt. Burt:

First, it reorganized the laboratory directorate so there is a clean flow of work, all aimed at integration of weapons and weapon systems with various platforms.

Second, it reorganized the support departments to give them a much clearer focus of support and a better understanding of the needs of the laboratory community. It opened new and improved lines of communication between the technical departments and the support side of the house.

Listing his most memorable tours with the U.S. Navy, Capt. Burt singled out his three years here and the tour as maintenance officer for Attack Squadron 146



CONTEMPLATING THE FUTURE--Mary Burt and Capt. John Burt discuss their plans for their next home. They are relocating to Virginia after Capt. Burt's retirement and change of command next month. Photo by PHAN Cary Brady.

while deployed on the *USS Constellation*. He called the time spent with the A-7E Corsair-equipped squadron very rewarding. The responsibility as maintenance officer during two deploy-

ments to Southeast Asia was a large part of what made this tour among the most memorable and most rewarding. While the Skipper is ending (Continued on Page 6)

Honorees caught by surprise Awards presented to problem solvers

Three members of NWC's Special RF Technology Branch (Code 3951) recently received commendation for their dedication and creativeness in the form of the Technical Director's Award for Outstanding Technical Accomplishment.

Michael Sanders, Ron Skatvold and Dr. Helen Wang received the award for their long-term work resulting in significant advancements in Radar Cross Section (RCS) prediction and measurements for NWC and the Department of Defense.

Beginning with innovative solutions to RCS measurement problems at Junction Ranch, the trio has since developed new and unique solutions which are

receiving national recognition. Their advice is sought and software which they developed is in demand by industry, academia, and other military organizations, as well as by fellow China Lakers. The results of their efforts continue to provide useful solutions to several ongoing missile programs.

The award caught Dr. Wang by surprise because it recognized an effort covering several years rather than one project or event. "This actually represents a team effort involving the entire branch and requiring the support and guidance of our branch head, Ed Patterson," she said.

Gerry Schiefer, NWC Techni (Continued on Page 7)



OUTSTANDING TECHNICAL ACCOMPLISHMENT- Helen Wang, Mike Sanders and Wayne Skatvold (far right) were recognized by Gerry Schiefer, NWC Technical Director (second from left), for their work in the field of radar cross section prediction and measurements. Photo by PHAN Cary Brady.

NWC Wellness Corner



BACKGROUND

To help the Wellness Program assess its performance and plan for future programs, a questionnaire was distributed to all NWC employees who participated in the 1989 Wellness Assessments. Questionnaires were distributed in two ways. Employees who participated in the blood analyses only were mailed a questionnaire form in conjunction with their blood results. Other employees were given questionnaires when they attended their fitness assessment.

In last week's issue of the *Rocketeer*, the Wellness Column discussed the background of the questionnaire and the results. In this second part, we'll discuss the conclusions from the survey.

CONCLUSIONS

The results suggest that Center intervention and employee involvement in the Wellness Program provides additional motivation to employees to make positive lifestyle changes. The blood analyses had a greater impact on employees' behavior modification than the fitness assessments; particularly in the areas of dietary changes. It may be that abnormal blood results "hit home" and stimulate employees to take their health responsibilities more seriously. However, caution must be taken in interpreting these data. Many BA participants commented that they already knew they were in terrible shape and didn't need a FA to tell them. Therefore, the results may give a false impression that the BA is more influential in determining lifestyle changes than the FA. However, in general, the attitudes of NWC employees are consistent with those of the general population who are becoming more actively responsible for their physical well being with emphasis on preventive rather than acute medical care.

Because of low employee nutrition scores on the HRA in 1988, nutrition classes were emphasized in 1989 although; in general, perhaps due to popular nutrition literature and media coverage, people are becoming more nutritionally aware. The positive dietary changes made by NWC employees during 1989, in accordance with the guidelines set forth by the American Dietetic Association, reflect the success of these classes.

It is noteworthy to mention that 384 Center employees started an exercise program as a result of their involvement in the Wellness Program. Employees who exercise regularly are statistically more productive and illness free than non-exercisers (Patton et al, 1986). The results of a long-standing employee health/fitness program conducted by NASA indicated that 50% of the exercisers reported better job performance and better attitudes toward work. Tenneco, Inc. (Houston, TX) found a highly significant relationship between exercise participation and job performance among 3,231 employees. Employees with high ratings of job performance also had high exercise participation indicating that productivity is related to fitness (Patton et al., 1986).

Today, people generally suffer from lifestyle-related chronic degenerative diseases which account for nearly 70% of all deaths (Patton et al., 1986). The potential savings to the Center in terms of medical costs, leave time, and replacement costs is staggering if these employees were to develop serious illnesses as a result of the potential danger of untreated conditions such as obesity, diabetes, and cardiac risk factors such as elevated blood cholesterol and low high density lipoprotein (HDL) levels. The American Lung Association estimates that a smoker costs an employer between \$400 and \$4,600 more annually than a worker who doesn't smoke if

they have been off cigarettes for a year. Therefore, because 26 employees have stopped smoking during the interim between assessments, the Center will save between \$10,400 - \$119,600 a year. Twenty-five of the 26 1989 participants who stopped smoking in the past year participated in the 1988 Wellness Assessments.

Although cost-benefits are most often evaluated in terms of money saved and "quantity of employee participation", there is no substitute for saving or improving the quality of just one individual's life. The potential heart attacks and heart bypasses which never occur to Center employees because of their participation in the Wellness Program are the real measure of the Program's success.

RECOMMENDATIONS

It is apparent from the employees' request for future Wellness programs, that the Wellness Program is not reaching many Center employees. Most of the programs requested are already offered either by the Wellness Office or through MWR. Therefore, it is recommended that more effective advertising by these two offices be conducted.

In the fall, it is planned to offer an expanded blood panel with employees paying for the service (approximately \$15.00). The *China Lake Challenge*, a base-wide interdepartmental athletic competition created to initiate continued motivation and family fun and participation, will also be implemented.

If you would like a complete copy of this report with tables, please contact the Wellness Program Office at X2468.

References

Patton, R. W., Corry, J. M., Gettman, L. R., and Graf, J. S. 1986. Implementing Health/Fitness Programs. Page 4,6 and 19. Human Kinetics Publishers, Inc. Champaign, Il.

Dr. Smith chosen 1989 Fellow by colleagues

Dr. Robert Smith's name was unfortunately omitted from the group photo of the 1989 Fellows. The *Rocketeer* sincerely apologizes for this oversight and extends "Belated Congratulations" to Dr. Smith for his recent honor.

Keep a lookout!

Bikes/cars can coexist

Lately, we at the Safety Program Office (Code 2405) have been getting a number of calls from both motorists and bicyclists complaining about the others' actions. Who is at fault? To one degree or another, both. While bicyclists do sometimes ride their bikes as if they have some kind of impenetrable shield around them, motorists some-

times goes for stop signs, a bicycle must stop, the same as a motor vehicle.

Keep a sharp lookout. Again this applies to motor vehicle operators as well as bicyclists. It's a known fact that motor vehicle operators quite often don't pay enough attention to motorcycles or bicycles on the road. so if you're driving your car, remind yourself to keep that much more attentive. If you're on a bicycle, remember that in a match between a car and your bike, YOU LOSE. Every time. The vast majority of the times, the motor vehicle operator will feel real bad about that broken bike and those broken bones you have. But the worst they get is some scratched paint and maybe a dent.

Submitted by the Safety Program Office



You are both subject to the same laws. The California Vehicle Code applies to both motor vehicles and bicycles. This means that if a bicyclist is riding against the flow of traffic rather than with it, they can be cited into Kern County Regional Court just as a motor vehicle operator would be. The

operator will feel real bad about that broken bike and those broken bones you have. But the worst they get is some scratched paint and maybe a dent.

ENTERPRISE announces its reunion

A reunion of former Air Group members and crewmen of the famous WWII Aircraft Carrier USS ENTERPRISE (CV-6) has been scheduled for Norfolk, Virginia Aug. 15-20.

All men who served aboard the ship during her

nine years of active service, 1938-1947, and their families are invited. The reunion is sponsored by the members of the USS ENTERPRISE Association, a non-profit organization made up of former ENTERPRISE personnel.



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ROCKETEER CLASSIFIEDS

TO PLACE AN AD
CALL 375-4481

ACTIVE MILITARY PERSONNEL & THEIR DEPENDENTS MAY PLACE THEIR CLASSIFIED ADS FREE OF CHARGE!

1 PERSONALS

"Around the World with Jesus" vacation bible school for 5-10 yr. olds at Ridgecrest Christian Fellowship, 3255 Downs. 375-7301. Monday July 31st thru Friday, August 1, 9:00 a.m. to 12:00 p.m.

5 HELP WANTED

BEAUTY OPERATOR WANTED - on Base. Ask for John. 446-6429.

BURGER KING is hiring openers /closers & cashiers. Advancement opportunity. Apply in person. 139 N. China Lake Blvd.

10 BUSINESS

BUSINESS STORAGE - DOUBLE CAR GARAGE. Downtown Apt. Complex. 817 Balsam, \$120/mo. 446-6489 eves.

15 SERVICES

FIREWOOD - Almond, Apple, Pine & Fir. 377-4465. Wilhorn & Sons Firewood Sales.

25 AUTOMOTIVE

1971 Volkswagen van, good cond., 30 gal. aquarium - \$70. 446-6402

CAMPER SHELL-fits Chevy pick-up, short bed. 446-7044

1988 TRX 250R - fully ported, Reeds, carburetor w/power front shocks, steering stabilizer, nerfs, turf tamer tires, rims all riding gear. This Quad is immaculate. \$3000/OBO. 446-2126 Leave Message.

'82 OLDMOBILE STATION WAGON: A/C, tilt wheel, PS, PB, CRUISE, XLNT condition. \$2700, 446-7499.

30 MISCELLANEOUS FOR SALE

CREAM WEDDING GOWN & VEIL, sz. 12, never been worn \$150; rose-colored bridesmaid dress, sz. 12 - \$50; 2 white satin flower girl dresses & slips, sz. 4 & 6 - \$40 each. 446-6954.

40 PETS

KITTENS - FREE TO GOOD HOME, 446-5311

AKC REGISTERED GERMAN SHORT-HAIRED POINTER - \$150.00. Color is white & liner Wormed, 1st shots. Taking deposits. Avail around Aug. 7. 446-4492 after 5 p.m.

45 HOMES

FOR SALE BY OWNER - 3 bedroom, 2 bath home in Heritage Village. Less than 3 years old. Premium lot facing park and mountains. Fully landscaped. \$102,000. Call 446-2388 eves.

LEASE/OPTION TO BUY - nice 2 bedrooms, garage, dishwasher, 237A Richmond Rd. NWC back gate. Assume VA loan, no qualification! Small down, owner carry second. \$550. 446-6487 eves.

LEASE/OPTION TO BUY 4BR, 13/4 BA, garage, 212 Valley, Inyokern, behind country park. Assume VA loan, no qualification, low down. \$650/mo. 446-6487.

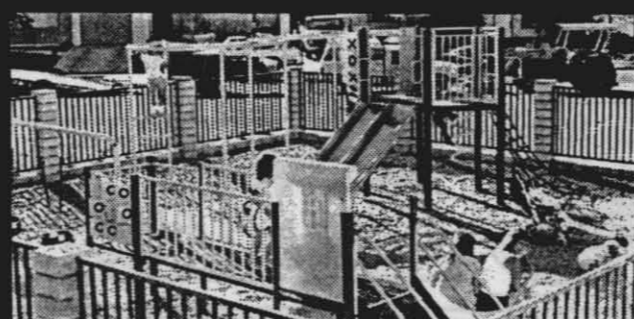
1987 - 14x66, 2BR, 2 BA Singlewide. Excel. cond. - Priced below appraisal value; \$21,000. Many extras: carport, 8x20 front patio, storage shed, bay windows, etc. 446-6915 or 446-6604.

SPARKLING CLEAN near NW, 2 bedrooms, garage, dishwasher, refrigerator, evaporative cooler, water/trash paid. \$445. 237A Richmond Rd. 446-6487 eves.

RENT FREE, 1BR, 1BA APT., refundable investment of \$10,000 buys lifetime use. Call 375-5060 or 375-9124.

LOVELY, well-cared for home, 3 BR, 1.75 BA. Many upgrades and extras. Located on 2.5 acres in Inyokern, 10 minutes to China Lake. 100' x 40' horse corral, view of mountains. Approx. 78 trees, all on timer. \$92,900. #1504 - Century 21 / Sierra View Realty. (619) 375-1588.

PROSPECT PARK VILLAGE



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GRAND OPENING - Phase II 2, 3 & 4 Bedroom - \$440 & up

- Pool & Jacuzzi
- Lighted Tennis Court
- Childrens Playground
- Fenced Yards
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- Refrigerators/Fireplaces (limited)
- Washer/Dryer Hookups and On-Site Laundrys
- 4 Carpet Color Choices

50 Lottery Tickets with return of this ad upon leasing - one per lease

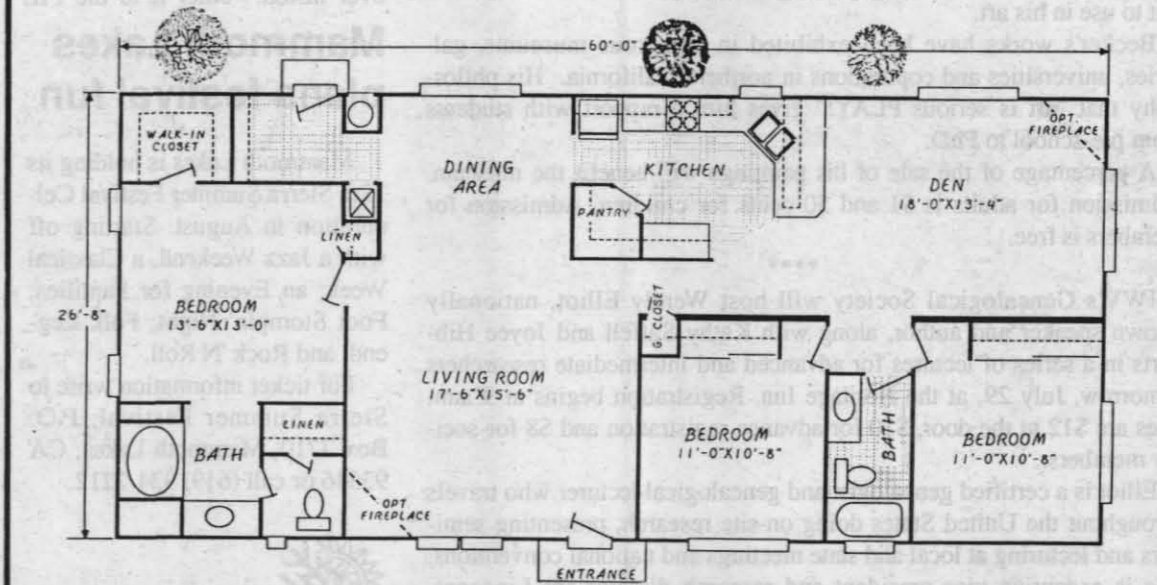
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For Special Attention - Call Ahead for Appointment (next to Kern Regional Park & French Street)

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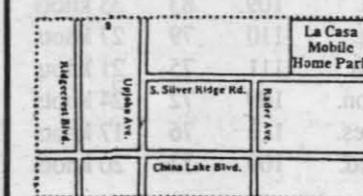
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Suggested Retail Price \$39,585
Regular Discount \$1,500
Our Price \$38,085
Another Discount \$1,000
Your Price \$37,085

Call 375-6176

Located in La Casa Mobile Home Park 700 S. Silver Ridge, Sp. 11 Ridgecrest, CA



Schedules...

CSUN

(Continued from Page 17)

IE 504: Economic Analyses of Engineering Systems (3 units)

Sept. 6-Dec. 20; Wednesdays, 1610-1910; Training Center. By Professor Mel Lifson, CSUN, (818) 885-2166.

Prerequisite: IE 405: Engineering Decision/Risk Analysis is recommended, but not required.

Scope: Evaluation of economic feasibility of large scale engineering systems. Projections of future economic environment, growth of demand, planned expansion of the system use of resources, levels of confidence in (Continued on Page 18) projections, risk evaluation and profitability analysis.

Text: Instructor will distribute notes.

Note: This is a core course in the Master's Degree Program in Systems Engineering.

ME 590A: Advanced Topics in Fluid Dynamics--Inviscid Flow (3 units)

Sept. 7-Dec. 21; Thursdays, 1610-1910; Training Center. By Dr. Gutmar, NWC ext. 3745.

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

Scope: Application of analytical and numerical techniques to the solution of inviscid flow problems. Topics include incompressible and compressible flow, one-dimensional and multi-dimensional steady flows, one-dimensional unsteady flows, small perturbation theory and the method of characteristics. Emphasis on aerospace and energy-related applications.

Text: *Gas Dynamics*, Vol. 1, M.J. Zucrow and J.P. Hoffman. John Wiley, latest edition.

CE 436: Structures II (4 units)

Sept. 5-Dec. 19; Tuesdays, 1610-1910; Training Center. There will be a lab on Wednesdays, Sept. 6 and 13 from 0900 to 1200 at the Training Center, with additional lab times arranged with the students as need on Tuesdays after 1910. By Professor Gadowski, CSUN, (818) 855-2166.

Scope: Study of structural

analysis and design problems using matrix methods. Complete development of the flexibility and stiffness methods of analysis, computer applications to structural analysis and design. Three hours of lecture and three hours of laboratory per week.

Text: *Structural Analysis*, Sack, McGraw-Hill, latest edition.

ME 501A: Seminar in Engineering Analysis (3 units)

Sept. 8-Dec. 18; Mondays and Fridays, 1610-1740; Training Center. By Dr. Rockwell, NWC, ext. 4802.

Scope: Investigation of mathematical techniques for the solution of engineering problems. Topics include Fourier's series and integrals, Laplace and other linear transforms, partial differential equations, Bessel functions and matrix theory.

Text: *Advanced Engineering Mathematics*, Wyle and Barret, fifth edition.

Note: This is a core course for the master's degree programs in electrical engineering, mechanical engineering, and applied mechanics through CSUN.

Math 477: Numerical Analysis (5 quarter units)

Sept. 13-Nov. 15; Wednesdays, 1610-2110; Training Center. By Professor Mohamed, CSUB, (805) 664-2130.

Prerequisite: Calculus III or consent of instructor.

Scope: Number representation and basic concepts of error; numerical solutions of nonlinear equations and systems of equations; interpolation and extrapolation; numerical differentiation and integration; numerical solution of ordinary differential equations; approximation by spline functions.

Note: This is a core course in the math/science option for the bachelor's degree program in computer science through CSUC. This is a prerequisite course for ME 592: Computational Fluid Dynamics to be offered Spring 1990. This is a foundation course for the mechanical engineering and applied mechanics master's degree programs through CSUN.

NPG courses are on hold

Notice regarding Naval Postgraduate self-study courses -- These courses are on hold until NPG decides to continue their self-study program or to come up with new funds around Oct. 1.

Anyone who has recently submitted a DD Form 1556 and wishes to cancel it, please call NWC ext. 2451 to do so.

Additional hours needed

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

John Hamilton, a former NWC employee (1965-1981) now employed by the Defense Logistics Agency -- is currently undergoing treatment for liver cancer. He has exhausted his sick and annual leave, as well as the maximum advances he can receive for sick and annual leave.

Jeanne Sizemore, Secretary, Code 344 -- is recovering from a hip and pelvic injury. She is expected to return to work Oct. 1.

Brian D. Peterson, Industrial Engineer, Code 3294 -- is recovering at Daniel Freeman Memorial Hospital from a bicycle accident on May 14. He is recovering from a severe head

injury. Physical, speech and occupational therapy are being given and he is improving every day.

Cheryl Clark, Secretary, Code 3686 -- had a medical setback and is currently undergoing a doctor's treatment and will return to work in September.

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

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

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

Robert R. Huntley, Program Manager, Code 35A1 -- has had a spinal fusion and neural surgery on his right arm. He has been able to return to work only part time.

Robert Donsbach, Specification Writer/Editor, Code 3656 -- suffered a heart attack on May 4, 1988 and will be unable to return to work until the end of July.

Joan A. Johnson, Secretary, Code 3592 -- needs annual leave to care for her husband, who is being treated for cancer.

Leave Donation Form Complete and send to Code 221

From: _____
Code: _____
I wish to donate _____ hours of my annual leave to: _____
I have attached a copy of my last leave and earning statement.
Signature _____ Date _____

New program is available

In conjunction with the Procurement Department (Code 25), the Training Center (Code 224) is planning to offer an eight-course series leading to a "Professional Designation" in government contract management. The eight courses are part of a certificate program offered by the University of California at Santa Barbara.

The plan is to offer two courses during Fiscal Year 1990. Additionally, two courses may be transferred toward the certificate from Cal-State Bakersfield electives, already available on-Center. Completion of this certificate program will enable employees to compete for available positions in the Contract Specialist Series DA-1102-1 (GS-5). Locally, this series has a target grade of DP-3 (GS-12/13).

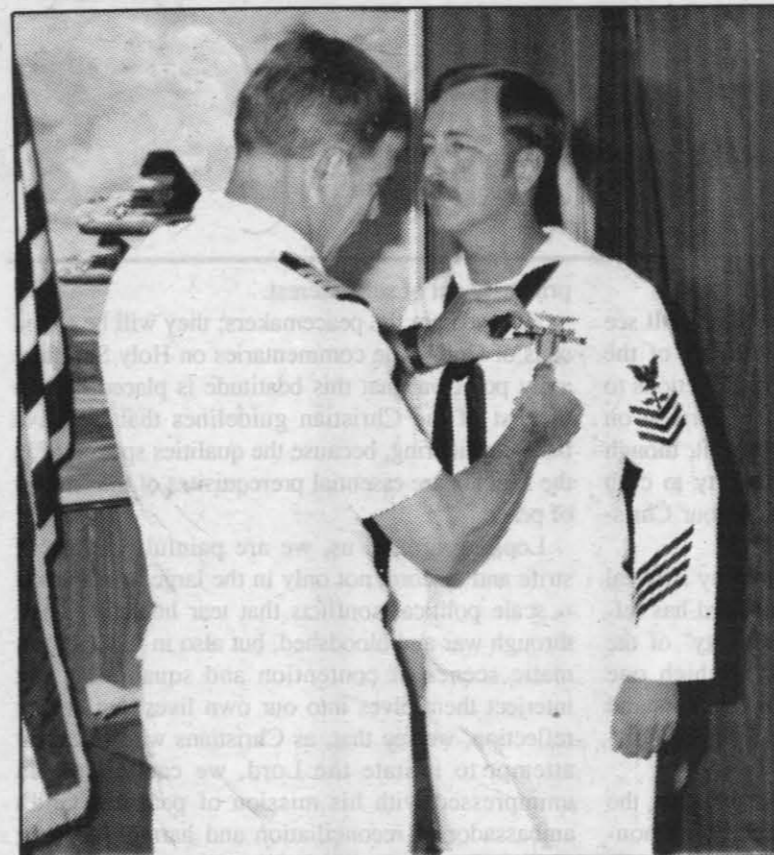
Completion of this certificate program results in a "Professional Designation." This designation is recognized by the National Contract Management Association. Other benefits of a "Professional Designation" are:

- Show evidence to a current or prospective employer of recent professional level training in the field of contract management for career advancement;
- Gain additional managerial & technical expertise in your field;
- More effectively compete for jobs; and
- Prepare for a new career.

Currently, local instructors are being recruited to staff this program. This first course will begin

in spring of 1990. Each course will meet one night per week for three hours for a 12-week period. Courses will be open to non-government personnel on a space available basis, with a pre-rated tuition fee of approximately \$325. For more information on this program, or to get your name on a mailing list, fill in the form below and return it to Vicki Munro, Code 224. Non-government employees are encouraged to respond.

To: Code 224 -- Vicki
From: _____ Code _____
Phone _____
SUBJ: USCB Certificate In Government Contract Management
____ Please send more information.
____ Please put me on your mailing list for future information regarding the certificate program.
____ I might be interested in applying as an instructor. Please call me.



EXCEPTIONAL MANAGER--Capt. Eric Vanderpoel, commanding officer, VX-5, awards the Navy Achievement Medal to AD1 Willard Quackenbush during his retirement ceremony. AD1 Quackenbush retired from the USN after 20 years of service and received the NAM for his "exceptional managerial skills and technical ability as branch supervisor, quality assurance representative and maintenance controller at VX-5. Photo by PH3 Rob Foster.

SRB program's success causes EAOS reviews

WASHINGTON (NNS)--Due to the great success of the selective reenlistment bonus (SRB) program in FY-89, and to ensure the program remains within its authorized spending level, it has become necessary to approve reenlistment dates for on or after Oct. 1, 1989 for some sailors whose expiration of active obligated service (EAOS) falls in FY-90.

"Nobody will lose money and we have not changed the SRB program," said Chief of Naval Personnel VADM Mike Boorda. "Anybody whose enlistment ends in FY-89 will have their reenlistment request approved for this fiscal year. This past March we put out some new SRB rates and the program has really been successful. Basically what's happened is I have to stay within our budget for this fiscal year. This year we've offered people the option to reenlist four months early so we're going to have to look at all those people whose (EAOS) falls in FY-90 and decide

if we have enough money to reenlist them early in FY-89. We will look at each request on an individual basis. Those people whose EAOS is after 1 October will also be approved, but on some of them we may have to say it is approved for 1 October 89. We want to make sure we can take care of all our sailors with a FY-89 EAOS.

"Now there is a good deal involved in this," Boorda added. "Nobody will lose any money, we will be sure of that. Some people may even get a little more by waiting. In any event, the wait won't be any longer than 1 Oct."

Boorda said that each sailor's request would be individually reviewed. Any sailor who could lose money by reenlisting in FY-90 would be approved for a FY-89 reenlistment.

"The SRB program is a good program and will continue in FY-90," says Boorda. "We will continue to treat individuals like individuals and we're not going to say no to anybody."

SLAM scores direct hit following its first development free-flight test

SAN NICHOLAS ISLAND, CA (NNS)--The Standoff Land Attack Missile (SLAM) scored a direct hit against a target site on the Pacific Missile Test Range following its first development free-flight test.

The carrier-based aircraft missile was launched from an A-6E "Intruder" and controlled during its flight from an F/A-18 "Hornet" using the walleye data link for "man-in-the-loop" control.

During flight, the SLAM uses an infrared seeker which sends a video image to the pilot who selects

a specific aimpoint on a target. After the pilot locks the seeker onto a specific target or target feature, the missile makes a precision strike that minimizes damage to surrounding areas.

The June 24 flight was the first of 10 scheduled for the SLAM test program. The missile, manufactured by McDonnell Douglas, is designed for deployment from carrier-based aircraft and allows the launch and control aircraft to attack high-value, fixed land targets, ships in port or ships at sea from long, standoff ranges.

NIS hotline protects security

WASHINGTON (NNS)--The Naval Investigative Service (NIS) has a new toll-free espionage hotline telephone number for sailors to report security violations 24 hours a day.

Since 1967 there have been 23 convictions on security related incidents. Since 1962 there have been 31 convictions of espionage, spying for a foreign government, resulting from NIS investigations.

As recently as May 4, 1989, a former chief petty officer was convicted of espionage and sentenced to 12 years in prison. The Walker case four years ago resulted in extensive compromise to national security, still undetermined in extent and figured to cost at least \$100 million just to resecure radio and communications channels.

Sailors stationed in CONUS outside Washington, D.C call 1-800-543-NAVY (6289). In Washington, D.C. call 433-9191. Outside the U.S. contact your nearest NIS office.

Usable news in 'All Hands'

WASHINGTON (NNS)--The August issue of *All Hands*, magazine of the U.S. Navy, hits the fleet July 24. "News you can use" highlights:

- USS Wasp (LHD 1), top-of-the-line in technology, habitability and mission capability
- Air Traffic Controllers in the Spotlight
- Naval Academy Lacrosse
- Fleet Week '89 in the Big Apple
- Naval Aviator takes over NASA
- Relive the Battle of Cape St. George with "31-Knot" Burke.



The Skipper Sez...

Question:

Some months ago, at the kickoff of the bank card program, you addressed the original bank card holders in the base theater. At that time you displayed an attitude that included some risk taking a willingness to explore uncharted waters in an effort to improve the procurement process for those of us in the technical codes. I still remember your concluding with the admonition "Make it work!" In my view, the program has been a resounding success. While all of us have experienced our share of problems, the payoff has been overwhelmingly positive. I appreciate your enthusiastic support.

The people involved with the program, whether in procurement or accounting, have been great to work with. A bureaucracy as such is virtually nonexistent. No matter what the problem that arises, everyone seems eager to solve it, not point fingers. Very refreshing.

My point in writing this is that I've just learned that Jacques Smith will soon be leaving the Center. I realize I have been remiss in not bringing to your attention her contribution to the success of the program. If one person is responsible for the program being what it is today, it has to be Jacques. She had such a positive attitude and worked so hard that the program really got started in the right direction. It has continued to prosper even after she relinquished the reins, which is a further tribute to the solid foundation she built.

Right from the start she was flexible and receptive to suggestions for improvement. She never imposed her will, but rather listened carefully and gave us a great deal of latitude in developing the program to best suit our individual needs. I always felt I was in control of my own destiny rather than being hemmed in by unnecessary restrictions and regulations. In short, she did a remarkable job of balancing the requirements for accountability and giving us the freedom to make the program work as it was conceived and intended.

If I were to point to a single thing that boosted my morale and effectiveness the most during my entire civil service career, it would be the bank card program. It has literally revolutionized the way I procure the material I need to do my job and therefore the way I am able to serve the people I work with. It has melted my frustration level incredibly. I hope you will extend to Jacques my sincere thanks for the major part she played in developing the program. We owe her a debt of gratitude.

Answer

Thank you for your positive comments. I, too, remember my challenge to all of you and am extremely happy to see that my trust was well placed. Once again China Lake has exceeded expectations. My thanks to everyone involved.

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

Vacation Bible School is from July 31-Aug. 4

"Come and enjoy an exciting journey through time and space with Jesus at the All Faith Chapel Vacation Bible School," is the invitation for all children Pre-K through 6th grade (using grade as of June 1989).

The Joy Trek Vacation Bible School begins July 31 and continues through August 4 from 8:30 a.m. to 11:15 a.m. According to the Chaplain's office, children will "discover through singing, studying, sharing, laughing, praying and growing that a journey with Jesus can indeed become a joy trek."

Registration has already begun and is continuing in the chapel office. The program still needs volunteers (teachers, aides, craft aides, refreshment servers, recreation, etc.). Call the Chapel office at NWC ext. 2873 or 2773 for more information.



"The Beatitudes of Jesus (Part 3)"

"Blessed are the pure in heart, for they shall see God." Again, a cursory or surface reading of the Beatitude, which is sixth in a series of directions to perfection given by the Savior in his "Sermon on the Mount," might lead one to associate it, though incorrectly so, exclusively with the ability to curb the passions and desires unbecoming to our Christian calling.

In this instance, however, we are told by Biblical scholars that the "heart" to which the Lord has reference encompasses the entire "personality" of the individual, including the manner in which one views reality. We might, furthermore, understand "pure" as "uncluttered," "clear," or even "not distracted by earthly concerns."

The individual who is "pure of heart" is, then, the man or woman who cuts through disturbing non-essentials and demonstrates a certain integrity and singleness of purpose that allows him or her to see the presence of God actively working in our world and sustaining His creation in its very being. Such a person "sees God," because he or she approaches everything seen and experienced as somehow manifesting the loving providence of a Father who takes an intense interest in His creation.

To "see God" is to recognize in some way his Divine Will in all things; to "see God" is to remain calm and secure in the face of pain and difficulty, as well as to rejoice and be glad in the face of good fortune, because all things are in the hands of a God who is infinite Love and Mercy.

Moreover, Jesus says that these "single-purposed" individuals are "blessed": unshaken by the distractions of the world, they dwell at all times in the presence of God who sometimes disguises the work of His hands and, as the proverb says, "Writes straight with crooked lines." Such are those whose spiritual vision is unobscured, and who work for the kingdom of heaven loyally for God's sake and not

primarily out of self-interest.

"Blessed are the peacemakers; they will be called sons of God." The commentaries on Holy Scripture aptly point out that this beatitude is placed here in the list of the Christian guidelines that we have been considering, because the qualities spoken of in the first six are essential prerequisites of the "maker of peace."

Looking around us, we are painfully aware of strife and discord, not only in the large -- and small -- scale political conflicts that tear humanity apart through war and bloodshed, but also in the less dramatic scenes of contention and squabbling that interject themselves into our own lives. On deeper reflection, we see that, as Christians who sincerely attempt to imitate the Lord, we cannot remain unimpressed with his mission of peace as God's ambassador of reconciliation and harmony among all people.

In a very real way, then, every follower of the savior is called upon to be an "ambassador of good will and peace." Christ calls such a person a "son" or "daughter" of God, giving free access to the privileges of a heavenly Father whose nature is perfect unity and concord.

The humble St. Francis of Assisi began his now-famous address to God by praying that he be made an "instrument of his peace." Genuinely concerned with his fellow man and responding to the Christ whom he perceived as a loving and gentle Master, Francis realized that the kingdom of God must be ushered peacefully into a world overcome by the distressing results of greed and insensitivity.

It is, after all, the "maker of peace" whose efforts to introduce concord and harmony in situations where chaos and disharmony reign who shows forth an inner peace and calm that is characteristic of one who is secure in the Lord.

By L.Cdr. S.A. Casimano, CHC, USN
COMMAND CHAPLAIN

Making prior arrangements for this summer's visitors

Housing says...Having guests? Going on vacation? You may make prior arrangements for out-of-town visitors by calling the Official Visitor Branch, NWC ext. 2181 or NWC ext. 2182, during regular business hours. If you are planning on guests visiting longer than 72 hours, Guest Request Forms are available at the front desk at the Housing Office. Approval for up to 30 days can be given by the Housing Manager. When planning a trip out of town

this summer, remember to arrange for someone to check on your home while you're away. Arrange for lawn and pet care. The China Lake Police Department will check your home periodically if you stop by the Police Station or give the police a call to let them know when you'll be away. Remember to let the Housing Office know if someone will have a key to your house in your absence, just in case that person loses it or locks the door with the key inside.

Use bonds to save for college costs

(NNS)--Those looking for ways to cut college expenses can take advantage of tax-free interest on savings bonds.

Interest on double-E bonds bought in 1990 or later will be free from income tax, if used to pay certain college expenses and your income is below a predeter-

mined level. The full tax exemption applies to couples with adjusted gross income under \$60,000 a year, or individuals with income below \$40,000. Partial tax exemption applies to cases where couples gross up to \$90,000 per year and singles below \$55,000.

When bonds are redeemed you

declare your intent to use the money towards college tuition or other fees. Your income level at the time determines if you qualify for the tax break.

Bonds can be purchased through the payroll savings plan through payroll allotment. Contact your disbursing office.

Local Fall schedules announced by universities...

Not under contract CSUB...

(Continued from Page 16)

rule-making, enforcement, adjudication, judicial review, due process, notice and hearings.

Note: This course satisfies an elective requirement for the CSUB Master's Program in Administration.

Note: Civil service employees of the Center taking one of the courses above and who expect to obtain tuition reimbursement, must submit via department channels to Code 224 prior to registration a DD Form 1556 (Off-Center Training Request) with a job order number supplied by their department and an "objective" statement explaining how the course is related to their current job or probable future

CSUC

job. For more information on tuition reimbursement procedures, call Cecil Webb at NWC ext. 2648.

The following classes are being offered this fall for the Cal-State University, Chico's (CSUC) Computer Science Program (bachelor's and master's degrees). To enroll in these classes, submit an on-Center Training Request and Authorization Form (NAVWPNCEN 12410/73) via department channels to Code 224. Registration will be held in class on the first meeting. **Deadline for enrolling is 10 calendar days before the starting date of the class.**

CSCI 151: Algorithms and Data Structures (3 units)
Sept. 2-3, Sept. 23-24, Oct. 28-29, Nov. 18-19, Saturdays and Sundays, 1800-1600; Training Center. By CSUC staff.

Prerequisite: CS 16: Pascal or equivalent or consent of instructor.

Scope: The representation, application, and processing of a wide range of data structures, including lists, trees, and graphs. The analysis of algorithms. Recursive and iterative techniques for problem-solving.

Text: *Data Structures and Programming Design*, Druse, Prentice-Hall.

Note: This is a core course for the bachelor's degree program in computer science through Cal-State, Chico. This is a foundation course for the master's degree program in computer science.

CSCI 397C-3: Seminar in Advanced Computer Graphics (3 units)
Aug. 29-Dec. 21; Tuesdays and Thursdays, 1400-1515; Training Center. By Professor James Murphy, CSUC, (916) 895-4022.

Prerequisite: CSCI 231: Computer Graphics or equivalent or consent of instructor.

Scope: A treatment of advanced topics in computer graphics as presented in recently published journals with emphasis on rendering three-dimensional scenes on raster displays and antialiasing, hidden surface removal, texture mapping, and realistic illumination models.

Text: *IEEE Tutorial: Computer Graphics: Image Synthesis*, Kenneth Joy, Charles Grant, Nelson Max and Lansing Hatfield. The Computer Society, 1988.

CSCI 227: Discrete Simulation Systems (3 units)

Aug. 29-Dec. 21; Tuesdays and Thursdays, 1100-1215; Training Center. By Professor Ralph Huntsinger, CSUC, (916) 895-5740.

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

Scope: Principles of system modeling, simulation models and languages, discrete systems, industrial dynamics, use of probability concepts, queuing patterns, and case studies.

Text: *Simulation of Waiting-Line Systems*, S. Solomon. Prentice-Hall, 1983.

CSCI 371: Comparative Advanced System Design Architecture (3 units)
Sept. 16-17, Oct. 14-15, Nov. 4-5; Saturdays and Sundays, 0800-1600; Training Center. By Professor Cormovick, CSUC, (916) 895-4022.

Prerequisite: CSCI 270: Systems Design or equivalent or consent of instructor.

Scope: An introduction to advanced system architectures, to include parallel processing, memory and I/Q sub-systems, super-computing, pipelines, vector and array processing, data flow machines, and VLSI computations. System design problems and candidate applications are examined for design conditions.

Text: *Computer Architecture and Parallel Processing*. McGraw-Hill, 1984.

CSCI 278: Computer Networks (3 units)
Oct. 30-Nov. 1, Dec. 2-3, Dec. 16-17; Saturdays and Sundays, 0800-1600; Training Center. By Professor Seung Bae Im, CSUC, (916) 895-4022.

Prerequisite: CSCI 152: Operating Systems Programming or CSCI 153: System Software and CSCI 172: Systems Architecture or equivalent or consent of instructor.

Scope: Covers the concepts, vocabulary, design issues and techniques currently used in the area of computer networks. Topics include history and evolution, transmission media, interconnection topology, control methods,

protocols, types of nodes, network interfaces, performance analysis, diagnosis and maintenance, taxonomy, bridges and gateways. Case studies of existing state-of-the-art networks are included.

Text: *Data and Computer Communications*, Stallings. Macmillan, second edition.

Math 477: Numerical Analysis (5 quarter units)
Sept. 13-Nov. 15; Wednesdays, 1610-2110; Training Center. By Professor Mohamed Ex-Ansary, CSUB, (805) 664-2130.

Prerequisite: Calculus III or consent of instructor.

Scope: Number representation and basic concepts of error; numerical solutions of nonlinear equations and systems of equations; interpolation and extrapolation; numerical differentiation and integration; numerical solution of ordinary differential equations; approximation by spline functions.

Note: This is a core course in the math/science option for the bachelor's degree program in computer science through CSUC. This is a prerequisite course for ME 592: Computational Fluid Dynamics to be offered Spring, 1990. This is a foundation course for the mechanical engineering and applied mechanics master's degree programs through CSUN.

Text: TBA.

EE 581: Non-Linear Control Systems (3 units)
Sept. 7-Dec. 21; Thursdays, 1610-1910; Training Center. By Professor Ed Gribes, CSUN, (818) 885-2180.

Prerequisite: EE 480N: Fundamentals of Control Systems or equivalent or consent of instructor.

Scope: Analysis of non-linear systems by means of describing functions and phase-plane diagrams. Stability studies by means of the second method of Liapunov.

Text: TBA.

EE 565N: Radar Systems (3 units)
Sept. 6-Dec. 18; Mondays, Wednesdays, and Fridays, 1130-1230; Training Center. By Dr. Wade Swinford, NWC ext. 2878.

Prerequisite: EE 550N: Random Processes or equivalent or consent of instructor.

Scope: Covers pulse and CW radars and target cross-section, receiver noise and losses, signal detection and matched filters, pulse compression, target parameter estimation, clutter and interferences.

Text: TBA.

(Continued on Page 18)

CSUN

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

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

The following classes are being offered this Fall for the Cal-State University, Northridge (CSUN), Engineering Program (Master's Degree). To enroll in these classes, submit an on-Center Training Request and Authorization Form (NAVWPNCEN 12410/73) via department channels to Code 224. Registration will be held at the first class meeting. **Deadline for enrolling is 10 calendar days before the starting date of the class.**

EE 581: Non-Linear Control Systems (3 units)

Sept. 7-Dec. 21; Thursdays, 1610-1910; Training Center. By Professor Ed Gribes, CSUN, (818) 885-2180.

Prerequisite: EE 480N: Fundamentals of Control Systems or equivalent or consent of instructor.

Scope: Analysis of non-linear systems by means of describing functions and phase-plane diagrams. Stability studies by means of the second method of Liapunov.

Text: TBA.

EE 565N: Radar Systems (3 units)

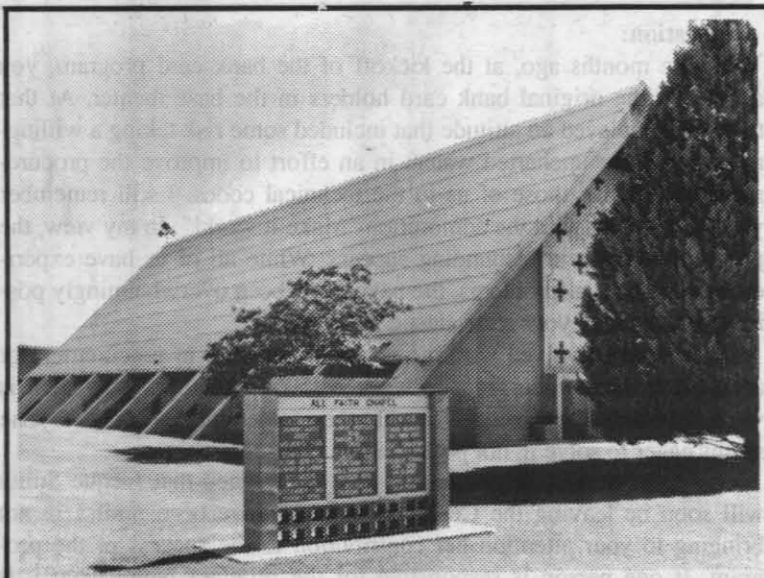
Sept. 6-Dec. 18; Mondays, Wednesdays, and Fridays, 1130-1230; Training Center. By Dr. Wade Swinford, NWC ext. 2878.

Prerequisite: EE 550N: Random Processes or equivalent or consent of instructor.

Scope: Covers pulse and CW radars and target cross-section, receiver noise and losses, signal detection and matched filters, pulse compression, target parameter estimation, clutter and interferences.

Text: TBA.

(Continued on Page 18)



Divine Services

Protestant

Sunday Worship Service, Main Chapel 10:30 a.m.
Sunday School, Annexes 1, 2 & 4 9:00 a.m.
Bible Study (East Wing), Wednesday 11:30 a.m.
(September thru June)
Men's Prayer Breakfast, East Wing, Thursday 6:15 a.m.
Officers' Christian Fellowship/Christian Military Fellowships, Annex 4, Thursday 7:00 p.m.

Islamic

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

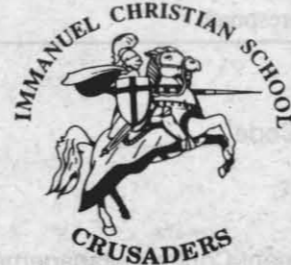
Roman Catholic

Sunday Mass, Main Chapel 9:00 a.m.
Daily Mass, Small Chapel 11:35 a.m.
Confession (Sunday), Command Chaplain's Office 8:15-8:45 a.m.
Confession By Appointment Anytime
Religious Education Classes (Sunday) (September thru May), Annexes 1, 2 & 4 10:30 a.m.

Jewish

Weekly Services (Friday - East Wing) 7:30 p.m.
Adult Hebrew Lessons (Saturday in Annex 4) 9:00-10:00 a.m.
Sabbath School (Saturday in Annex 4) 1:00-4:00 p.m.

Chaplain S. A. Casimano, LCDR, CHC, USN
Chaplain G. L. Goodman, LT, CHC, USNR
Chaplain G. E. Williams, LT, CHC, USNR
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Street Address _____ Apt. No. _____ City _____ State _____ Zip _____

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Local Fall schedules announced

Under contract CSUB

This Fall, Cal-State University, Bakersfield (CSUB), is offering the following classes for their Bachelor's Degree in Business Administration and Master's Degree in Administration programs. To enroll in these classes, submit an on-Center Training Request and Authorization Form (NAVWPNCEN 12410/73) via department channels to Code 224. Registration will be held at the first class meeting. *Deadline for enrolling is 10 calendar days before the starting date of the class.*

FIN 300: Financial Management (5 quarter units)

Sept. 21-Nov. 30; Thursdays, 1610-2110; Training Center. By Professor Shakoori, CSUB (805) 664-2158.

Scope: Theory of financing the business firm under uncertainty. The supply and demand for capital, asset management, capital structure analysis, cost of capital, and capital budgeting decisions. Statistical and financial analysis of problem sets also included as well as computer applications.

Note: This is a core course for the Bachelor's Degree Program in Business Administration through CSUB.

ADM 690: Seminar in Administration (5 quarter units)

Sept. 21-Nov. 30; Thursdays, 1610-2110; Training Center. By Professor Paris, CSUB, (805) 664-2158.

Scope: This course is designed to integrate concepts and techniques for the core courses within a broader framework. Designed to sharpen analytical and communication skills. Course requirements include program culminating activity for the Master's Degree.

Note: This is a core course for the Master's Degree Program in Administration through CSUB.

MATH 477: Numerical Analysis (5 quarter units)

Sept. 13-Nov. 15; Wednesdays, 1610-2110; Training Center. By Professor Mohamed Ansory, CSUB, (805) 664-2130. Prerequisite: Calculus III or consent of instructor.

Scope: Number representation and basic concepts of error; numerical solutions of nonlinear equations and systems of equations; interpolation and extrapola-

tion; numerical differentiation and integration; numerical solution of ordinary differential equations; approximation by spline functions.

Note: This is a core course in the Bachelor's Degree Program in Computer Science through CSUB. This is a prerequisite course for ME 592: Computational Fluid Dynamics to be offered Spring 1990. This is a foundation course for the mechanical engineering and applied mechanics Master's Degree programs through CSUN.

General Comments

1. Textbooks are available at bookstores locally.

2. Civil service employees of the Center taking academic courses other than those under contract and who expect to obtain tuition reimbursement, must submit via department channels to Code 224 prior to registration a DD Form 1556 (Off-Center Training Request) with a job order number supplied by their department and an "objective" statement explaining how the course is related to their current job or probable future job.

3. For more information on tuition reimbursement procedures or academic programs, please call Cecil Webb at NWC ext. 2648.

Not under contract CSUB

Following are courses being offered locally by CSU, Bakersfield. While the following courses relate to the CSUB Business Administration and Administration programs locally, they are not covered by the contract with the Naval Weapons Center. To pre-enroll in either of the courses below, please contact the Office of Extended Studies, CSU, Bakersfield, 9001 Stockdale Highway, Bakersfield, CA 93311-1099 (telephone 805-644-2441). Registration will be held the first day of class. Students must bring a check for \$300 (for 5-unit course) made payable to CSUB to submit to the instructor the first day of class.

Spanish 320: Hispanic-American Culture and Civilization (5 quarter units)

Sept. 18-Nov. 27; Mondays, 1610-2110; Burroughs High School By Professor Reyna,

CSUB, (805) 664-2359.

Scope: An overview of music, arts, literature, customs, institutions and technology, past and present, as they affect the development of Hispanic-American culture and civilization from its beginning to the present day. Course given in English.

Note: This course satisfies General Education Goal VIII for

CSUB Bachelor's Degree students. This course satisfies the ethnic studies requirement for CSU, Chico Bachelor's Degree students.

ADM 577: Administrative Law (5 quarter units)

Sept. 18-Nov. 27; Mondays, 1610-2110; Training Center. By staff.

Scope: This course surveys

the concept of administrative law and government regulation, the functions of administrative agencies, and the legal aspects of the process by which such agencies carry out their policies and functions. It reviews the evolution of administrative authority and the Administrative Procedures Act, and it examines the subjects of (Continued on Page 17)



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Cartridges are MIPed!



Did you know that laser toner cartridges for printers can be refilled at a substantial savings over the purchase price of a new one? Well they can, and it's primarily due to a MIPI.

Last year Mary Lee Dappleman submitted an initiative proposing that the Center contract for the recharging of laser toner cartridges. She found that the cartridges could be recharged for approximately \$40 to \$60 each (a significant savings over the \$100 plus cost of a new one). Code 27 thought that it was such a good idea that they changed the existing printer maintenance contract to provide the "remanufacturing" used cartridges.

"Remanufacturing" was selected by Code 27, even though it is a little more expensive than simple refill, because it offers the best quality and is guaranteed by the vendor. The cartridge is taken apart in this process and is not only refilled but any damaged parts are repaired or replaced. The cartridge is sealed and packaged like the original part supplied by the manufacturer. The quality is just about as good as the original toner cartridge too.

Do you want to use the new

service? All you have to do is call the trouble desk at extension 2575 to log a trouble call under the maintenance contract. You will be asked to provide the following information: point of contact and alternate; phone number; code; building and room number. The contractor will come to the work site to pick up the cartridges/wiper blades and, after they have been "remanufactured", will return them to you at the work site. The cost is approximately \$60 per cartridge and includes all contractor's costs, there is no additional labor charge.

So get your thinking hat on and look around your work site. Are there any rules, regulations or processes that could be changed to make work a little easier or save some hassle or money? If there is then MIP it! Maybe you can join Mary Lee Kappleman and turn that thinking hat into a MIPI cap.

Pyatt resigns, retires from federal service

WASHINGTON (NNS)--Acting Under Secretary of the Navy Everett Pyatt announced his resignation and retirement from federal service as of July 29. Pyatt, the Assistant Secretary of the Navy for Shipbuilding and Logistics, has been Acting Under Secretary since May 22, 1989.

He visited NWC in March 1989 and attended ribbon cutting ceremonies at the Coso Geothermal Plant.

Pyatt has served as Principal Deputy Assistant Secretary and Assistant Secretary responsible for the production phase of all Navy acquisition programs, all aspects of Naval shipbuilding, logistics, Navy and Marine Corps shore installations and facilities, and matters involving safety and environment.

Secretary of the Navy H. Lawrence Garrett III called Pyatt's 27 years of federal service "an outstanding example of the dedication and ability which marks our senior career federal service,

demonstrating once again how well our people and their elected officials are served by those who commit themselves fully to public service."

Bob Garrett receives Meritorious Service Award for analysis work

Bob Garrett, head, Weapons Systems Cost Analysis Division, was recognized for his extraordinary contributions recently when Capt. John Burt, commander, NWC, presented him with the Navy Meritorious Civilian Service Award.

Garrett and his staff developed a Navy-wide reputation for having the best in-house cost analysis capability. He was a major contributor for establishment of the Federal Organization of Systems Analysis Directors' Cost Panel which is a forum for developing inter-laboratory cost estimating methods.

He joined the Naval Weapons Center as a senior analyst after a 24-year career in the private sector where his contributions to military cost analysis were well known. During his 13 years at NWC, many new advanced techniques for estimating cost have been developed due to his skilled direction of the small cost division. Two new methods are currently being developed: a model for estimating cost of weapon test and evaluation and a model comparing cost and reliability which



PRESTIGIOUS AWARD--Capt. John Burt is pleased to present the Navy Meritorious Civilian Service Award to Bob Garrett for his contributions to the Navy's weapons cost analysis capabilities. Anita Garrett, center, displays the award citation. Photo by PHAN Cary Brady.

will be used during design to enable management to determine the greatest reliability at the least cost for electronic systems.

"Your development of new techniques for estimating costs have had measurable long term

financial impacts on Navy weapons acquisition programs," said Capt. Burt at the presentation ceremony. Garrett retired from NWC on December 31. His wife, Anita, was present as he received the prestigious award.

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Capt. Burt is looking forward to new challenges in FAA career of materiel acquisition

(Continued from Page 1)

his military career, he stressed this was not the end of his association with the Navy. "While I know I'll miss the camaraderie of the Navy, one nice thing about Washington is that the area is the crossroads of the Navy. I'll be involved in supporting the Navy and will continue my associations with many Navy people."

There is no doubt in Capt. Burt's mind of China Lake's contribution to the fleet, nor its bright future. "I encourage people here to always look to the future, to make China Lake the best laboratory possible and meet the challenges ahead. NWC has a good reputation and has done a good job in the past...I want to see this continued," he added.

Talking about his decision to leave active duty, Capt. Burt said he was retiring because of the "opportunity to take a big step forward in a career of materiel acquisition." During his last 12 years in uniform, NWC's Skipper has been a procurement and acquisitions specialist who has managed large

civilian activities such as China Lake. An additional factor in this decision was the ability to relocate in northern Virginia where his family wants to live and where they already have a home.

During the three-year NWC tour, the Skipper, and his wife, Mary, have been active in the community as well. Mary was instrumental in organizing the first Grad Night party for Burroughs High School seniors and has been involved with the Navy Relief Society and the Ridgecrest United Methodist Church. Membership in the Ridgecrest Chamber of Commerce and the Rotary Club brought Capt. Burt close ties to what he sees as a vibrant, forward-looking community.

Concluding the interview, the Skipper said he wanted to thank the people of NWC for their strong support during the past three, truly memorable, years. He added that he'll miss the people and miss the mountains, but looks forward to the challenge and a chance to get back to growing vegetables in his backyard garden.

Mitchell honored for reorganization work

Many changes have occurred during Capt. John Burt's tenure as commander, NWC, but the Center's reorganization has been a key one. Terry Mitchell, Organization Change, was recognized for her persistent efforts to effect this change when she received the Commander's Award for Excellence in Mission Support on Monday.

"I am pleased that I will be remembered for helping NWC adopt a new management style and your effort, energy, emotion and risk-taking was an integral part of that change," said Capt. Burt.

"You persisted in providing our corporate leadership with an approach whereby the Center can oper-

ate as a team and where organizational design and roles have been clarified to better support our mission and customers," cited Capt. Burt's letter.

"Your exceptional efforts in establishing, developing, and implementing an organization change strategy for the Center has led to an outstanding long-term payoff. Your efforts and assistance to our corporate leadership in the development of a vision and mission and value statements have been superb. I especially want to recognize and thank you for your continued work for many years in team building and leadership assessment," continued the letter.

EFFORTS REWARDED- Terry Mitchell's persistent efforts to effect the Center's reorganization changes were recognized recently when she received the Commander's Award for Excellence in Mission Support from Capt. John Burt. Mitchell was one of the key facilitators of NWC's recent reorganization. Photo by PHAN Gary Brady.



FORTY YEARS OF SERVICE--Capt. John Burt congratulates Jerry Boylan on his attainment of 40 years of Federal Service. After a 20-year career with the Air Force, Boylan began his Federal career in the field of photography. He has been with the Naval Weapons Center since 1976. Photo by PHAN Gary Brady.

"Be Money Wise" with NRS planner

"Be Money Wise" with the new self-help budget planner from the Navy Relief Society. The tool can help sailors and marines determine just how many dollars they have and what their real monthly expenses are with the easy-to-use worksheet.

To obtain "Be Money Wise" and other information on budget management, call or visit the Navy Relief Society at 1811 Lauritsen, NWC ext. 2921. The office is open Mondays, Wednesdays, and Fridays from 11 a.m. to 2 p.m.

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Personnel news and notes

(Continued from Page 14)

in the Precision Measurement Section, Metrology Branch, Engineering & Production Processes Division, Engineering Department. The incumbent will perform tests, calibrations and repairs on a large variety of test and measurement equipment (TME). Incumbent will also maintain calibration standards to provide traceability of measurements. The incumbent may be assigned as a member of the on-site calibration team capable of a vast amount of various TME and/or special system calibrations. **Job Relevant Criteria:** Knowledge of electronic test and measurement equipment (i.e. signal and pulse generators, frequency counters, sweep generators, oscilloscopes, power meters, spectrum analyzers and various multi-function meters); ability to perform calibration of TME per Metrology Instrument Calibration Procedures (ICP) or manufacturer specifications; ability to work effectively independently or as a member of a team. RF experience is desirable. Promotion potential to DT-3, but not guaranteed.

No. 38-008, Supervisory Research Chemist/Chemical Engineer, DP-

1320/893-3/4, Code 385 - This position is the Head, Chemistry Division in the Research Department. The Division specializes in basic and applied research in the chemistry of energetic materials, polymeric materials, optical and electronic materials, non-linear optical materials and instrumental analysis as applied to process diagnostics and materials characterization. The applicant must be an advocate for basic research. He/she will provide broad direction and goals in basic research as well as specific guidance in research applied to Navy needs. He/she will be responsible for long-range needs of the Division for personnel, space, facilities, etc. As the Division leader, he/she must be able to communicate with all levels of NWC management as well as sponsors outside NWC. A PhD in Chemistry/Chemical Engineering preferable; communication and leadership skills is desirable. **Job Relevant Criteria:** Knowledge of the Navy establishment; knowledge of DOD personnel policies and procedures and a willingness to support NWC EEO policies. May be required to serve a one-year supervisory probationary period. Status eligibles may apply.

Reassignment opportunities

This column is used to fill positions through reassignment only. For this reason, the Reassignment Opportunity Announcements are separate from the Promotion Opportunities column in the Rocketeer. Applications will be accepted until the date stated in the announcement. Employees whose work history has not been brought up to date are encouraged to file an SF-171 or 172. All 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. 64-026, Interdisciplinary (General Engineer/Mechanical Engineer/Electronics Engineer/Aerospace Engineer/Physicist/Mathematician/Computer Scientist/Operations Research Analyst), DP-801/830/855/861/1310/1520/1550/1515-3/4, Code 64401A - This position is that of Head, Program Management Office, reporting to the Associate Division Head for Development. Incumbent will manage an office of 10 people responsible for planning, fiscal management, coordination, analysis and documentation of assigned simulator development programs. This office is also responsible for development, acquisition, and integration of threat simulators for the EWTES facility under the Navy's Inte-

grated Naval Air Defense Simulation (INADS) Program. These programs include threat early warning acquisition radars, weapons target acquisition and tracking radars, infrared and electro-optical trackers and seekers, jammers and deception devices and command control and communication (C3) equipment. Experience in management of major weapons systems development and acquisition programs is highly desirable. This position requires employee to be able to obtain and maintain Top Secret Clearance. Incumbent may be required to serve a one year supervisory probationary period. To apply send updated SF-171 to Gary Castor, Code 64401, NWC phone 3571/294. Previous applicants need not reapply.

CCCC offers Quality Assurance courses

For the first time this fall, Cerro Coso Community College will be offering classes in Quality Assurance. This is a new program being offered by the college.

During the fall semester, two courses will be offered. *Introduction to Quality Assurance* will meet on Tuesdays and Thursdays from 5 to 6:20 p.m. in Room 113 at the City Center. The instructor will be Tony Miller.

Fundamentals of Nondestructive Testing will meet on Mondays and Wednesdays from 5 to 6:20 p.m. in Room 101 at the City Center. Peter Stewart will instruct this course.

Both classes will begin during the week of Aug. 21. Students wanting more information about these classes should call the Counseling Office at Cerro Coso, 375-5001.

Registration begins by appointment only on Aug. 10 for continuing students and on Aug. 14 for both new and continuing students. Walk-in registration is on Aug. 17 on a first-come, first-served basis.

Secretarial opportunities

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

Applicants will be rated against four or more of the following job relevant criteria: (1) ability to perform receptionist/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/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/coordinate travel arrangements; (9) ability to maintain/coordinate supervisor's calendar and to arrange conferences.

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

No. 28-052, Secretary (Typing), DG-318-A/1/2, Codes 2834/2835 - This position provides secretarial and administrative support to the Heads of the Resource Analysis and Plans and Programs Branches and the branches personnel. Experience with Macintosh computers is desirable. Promotion potential to DG-2, but not guaranteed. Status eligibles may apply. Previous applicants need not reapply.

Incumbent provides secretarial and administrative support to one or more branches in the Electronic Warfare Threat Environment Simulation (EWTES) Division. Knowledge and working skill on the Macintosh PC is desirable. Must be able to obtain and maintain a secret clearance. Work schedule is first forty (Mon - Thurs, 0630 - 1630). Status eligibles may apply. Promotional potential to DG-2. Previous applicants need not reapply.

318-2/3, Code 273 - This position is located in the Information Systems Group, Information Management Division. The division develops advanced MIS/Databases for the Center and extensively utilizes Macintosh technology to provide an automated office environment. The incumbent provides a full range of secretarial/administrative support for the Division Head and staff. Knowledge and working skill on the Macintosh is desirable. Promotion potential to DG-3, but not guaranteed.

No. 64-038, Secretary (Typing), DG-318-1/2 (2 vacancies), Code 644 -

No. 27-014, Secretary (Typing), DG-

Test set for September 7 CSUN writing exam planned

On Thursday, Sept. 7, the English Writing Proficiency Test will be given to graduate students of Cal-State Northridge (CSUN). CSUN students should take the exam as soon as application for admission has been submitted. This test must be passed before the student is granted unconditional status as a master's candidate. Graduate students must attain unconditional sta-

tus before earning more than 12 units of academic work acceptable towards the master's degree.

The exam fee is \$12. Checks must be made payable to California State University, Northridge (CSUN).

Contact Helen, NWC ext. 2648, to arrange to take the exam.

Dr. Madrigal advises students

Dr. Orlando Madrigal of Cal-State University Chico will be on-Center Aug. 18 to advise current and prospective students in the external degree programs offered by the school.

Cal-State University Chico has external degree

programs in computer science which lead to bachelor's and master's degrees.

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

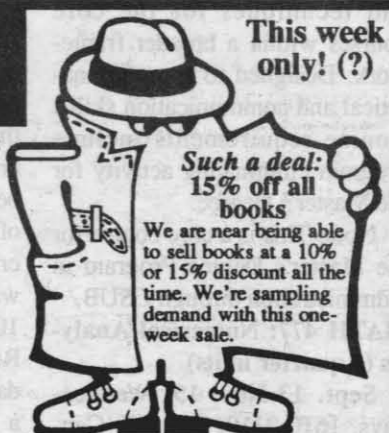


"MEGGIE"

Lost - Border Collie, black and white, 3 yr. old female, 44 lbs., spayed, escaped from leash at Dr. Jansen's office on Friday, 21 July. No collar or name tag on because of nose surgery on 20 July. Has a nervous disorder, very timid, due to distemper when a pup. Please, please return, ample reward offered. Jo Ann at 375-1651 or 446-7468.

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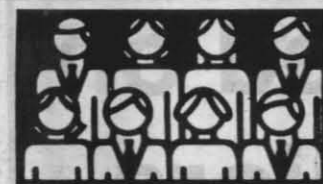
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Personnel News & Notes

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

NO. 22-015, Staff Assistant, DG-303-3, Code 22 (Part time - 20 hours/wk) - Incumbent will assist the Department office in providing administrative and clerical support to the Center's Long Term Travel (LTT) program primarily. In addition, provides general secretarial and clerical support to the Department Office. **Job Relevant Criteria:** Ability to plan, organize, and accomplish work independently; and ability to research, comprehend, and apply complex regulatory information. Must have demonstrated experience in using the Joint Travel Regulations to determine entitlements of Permanent Change of Station, LTT and Foreign travel. Promotion potential to DG-4.

NO. 30-015, Computer Engineering/Electronics Technician, DG-802/856-A/1, Code 3031 - This position is that of a wargame simulation operator in the Operations Branch of the Weapons and Tactics Analysis Center (WEPTAC) Program in the Weapons Planning Group.

edge of wargaming system, monitors commands and advises Unit Commanders of operational guidelines to ensure play is within parameters of wargame models. Provides initial instruction to Unit Commanders on work station equipment, range of permissible commands, and basic operation and capabilities of system and wargame models, maintains current knowledge of changes, additions, and upgrades to wargame model and is able to integrate that knowledge into efficient operation of the input console. **Job Relevant Criteria:** Ability to learn military equipment; ability to communicate orally; skill accurate typist (35WPM minimum); ability to understand and follow instructions. The incumbent must be able to obtain and maintain a Secret clearance. An active SBI is desirable. Promotion potential DT-2.

NO. 30-016, Computer Clerk, DG-303-A/1/2/3, Code 3031 - This position is that of a wargame simulation operator in the Operations Branch of the Weapons and Tactics Analysis Center (WEPTAC) Program in the Weapons Planning Group. WEPTAC is a computer based, interactive wargaming facility providing man-in-the-loop simulations to evaluate the effectiveness and utility to weapons, weapon systems, platforms, sensors and tactics. The incumbent's responsibilities include active participation in wargames and simulations run in WEPTAC by acting as an input console operator. Based on a good working knowledge of the wargaming system hardware and software, as well as Navy tactics doctrine and terminology, the incumbent performs the following duties: receives, interprets, and enters into the computer commands from a Unit Commander. Keeps Unit Commander informed of game status and actions by continually monitoring game information displayed on input console, CRT's and printers. Provides guidance to Unit Commanders on system capabilities and limitations and ensures that Unit Commander is kept aware of game ground rules established by Game Director; utilizing knowledge of wargaming system, monitors commands and advises Unit Commanders of operational guidelines to ensure play is within parameters of wargame models. Provides initial instruction to Unit Commanders on work station equipment, range of permissible commands, and basic operation and capabilities of system and wargame models, maintains current knowledge of changes, additions, and upgrades to wargame model and is able to integrate that knowledge into efficient operation of the input console. **Job Relevant Criteria:** Ability to learn military equipment; ability to communicate orally; skill accurate typist (35WPM minimum); ability to understand and follow instructions. The incumbent must be able to obtain and maintain a Secret clearance. An active SBI is desirable. Promotion potential DT-2.

34-021, Photographer (Laboratory), DT-1060-1/2, Code 3451 - This position is located in the Photographic Division, Technical Information Department. The incumbent performs all standard techniques and procedures necessary to produce accurate and precise photographic prints and transparencies. The incumbent will use various types of manual enlargers, automatic printers and processors and perform related photo finishing duties. **Job Relevant Criteria:** Knowledge of laboratory processes and procedures involved in the production of still prints and transparencies; knowledge of auto-

matic printing and processing equipment; ability to use automatic printing and processing equipment; ability to produce black/white and color prints and viewgraphs on manual and automatic equipment; ability to effectively use basic technical publications. Promotion potential to DT-2. Status eligibles may apply.

34-022, Computer Specialist, DS-334-1/2, Code 343 - The position is that of System Administrator for the Library Division's Integrated Online Library System (IOLS), CLSI. This is a Staff position primarily concerned with coordinating and integrating technical aspects of the CLSI computer system with administrative matters such as system development, vendor interface, funding requirements, and employee system development/training. The incumbent is responsible for providing CLSI operating systems analysis, customized record design, hardware/software installation and implementation and responsible to communicate to the vendor system objectives, programs and policies and to resolve operating problems. The employee works closely with Library Division and Branch management to achieve these objectives. The position requires knowledge of DEC minicomputer equipment, UNIX operating systems, C programming language, techniques of data base management, and knowledge of system software and its relationship to the operating system. Employee also advances the processes used in the generation of technical information through the application of automated technologies. Work involves examination and analysis of technical information processes with a focus on the identification of technologies to improve and enhance information processing and access capabilities between the Technical Library and the Center technical community. **Job relevant criteria:** Knowledge of on-line computer systems, related computer hardware interfaces and software and C programming. Ability to review system capabilities and analyze results for acceptable performance/output; ability to determine system goals and objectives, develop procedures and work/task priorities; ability to administer an information system, meeting organizational goals and objectives and review program requirements and responsibilities.

NO. 35-050, Electronics Technician DT-856-2/3, Code 3572 - This position is in the Inertial Development Branch, Advanced Systems Division, Attack Weapons Department. The incumbent will fabricate electronic circuits and perform light machining tasks using a drill press and bench lathe for prototyping of the Fiber Optic Gyro. Collateral duties include procurement of parts and equipment; so an NWC credit card holder is desired. **Job Relevant Criteria:** Knowledge of analog control circuit fabrication; Knowledge of the layout of an electronics fabrication facility; Ability to communicate effectively orally; Ability to communicate effectively in writing.

NO. 35-051, Trainee Position, Electronics Technician, DT-856-A, Code 3575 - This is an upward mobility position, Target position is an Electronics Technician, DT-856-1. Promotion potential is Electronic Technician DT-856-3. This position is located in the Design and Fabrication Branch, Advanced System Division, Attack Weapons Department. Incumbent will work as a member of the branch to provide electronic fabrication assembly support to various projects. Duties include fabrication of electronic

printed wiring boards, wire wrap boards, and assembly and wiring of systems for flight validation testing. Will assist in the design, layout and testing of printed circuit boards. The training portion of this position will involve specialized on the job and formal class room training. **Job Relevant Criteria:** Ability to learn basic electronic theory; ability to learn how to read assembly drawings and schematics; ability to communicate in writing; ability to communicate orally; ability to use electronic tools and test equipment. Occasional off center travel is required. **Eligibility:** NWC employees DA/DA/DT-2, DG-4, GS/WG-9 or equivalent and below, who are eligible for reassignment or change to lower grade to the trainee position. A supervisory appraisal for (NAVWPNCEN 12335/4) is required, you may pick up the form in the Personnel Building, Room 100.

NO. 35-052 Supervisory Interdisciplinary Electronics, Electrical Engineer/Computer Scientist/Mathematician/Physicist, DP-850/855/1550/1520/1310-3, CODE 3566 - This position is that of Head, Aircraft Integration Branch, Missile Software Division, Attack Weapons Department. The incumbent is Branch Head and supervises and organizational unit responsible for integration, testing and systems analysis of HARM and HLCS weapons on various aircraft platforms such as A-7, F/A-18, A-06E, EA-6B and F-14D. The branch head will coordinate and schedule technical tasks of personnel; will be responsible for a several million dollar budget; will direct contractor efforts; will coordinate with the HARM/LCS Project Office and Aircraft WSSA's. **Job Relevant Criteria:** Knowledge of aircraft weapons systems integration, test and evaluation; Ability to communicate effectively in writing; Ability to communicate effectively orally; Ability to coordinate others and organize tasks; Willingness to support NWC's EEO goals and policies. Applicant may be required to serve a 1 year supervisory probationary period. Promotion potential is to DP-4.

NO. 36-044, Supervisory Engineering/Electronics Technician, DT-802/856-3, Code 36412 - This position is Head, Electro/Mechanical Measurement Section, Metrology Branch, Engineering & Production Processes Division, Engineering Department. The incumbent will provide leadership, technical guidance and supervisory duties for employees who perform calibration and repair of various test and measurement equipment (TME) in support of the NWC Metrology Program. The incumbent is also responsible for supervising the physical and dimensional calibration functions provided by the Branch. Incumbent provides plans and schedules work activities in support of the Electro/Mechanical Section and contributes to fulfill the on-site calibration requirements of the branch. **Job Relevant Criteria:** Knowledge of test and measurement equipment (TME) and calibration techniques employed to support electronic and electro-mechanical calibration; knowledge of safety practices; knowledge of NWC personnel policies and procedures; knowledge of and a willingness to support NWC EEO policies and affirmative action plans; ability to communicate both verbally and in writing. Incumbent may be required to serve a one-year supervisory probationary period. Promotion potential to DP-3, but not guaranteed.

NO. 36-045, Electronics Technician, DT-856-2, Code 36411 - This position is (Continued on Page 15)

Trio earns TD awards

(Continued from Page 1)
al Director, presented the award at a July 6 gathering in Lauritsen Lab. The award letter reflected his pride in the group: "It is indeed a pleasure to find folks like yourselves who find so much enjoyment in their work and

accomplishments that further reward is not expected," Schiefer expressed. "However, it is exactly this type of performance that should be rewarded, and I want to personally extend my appreciation and thanks for a job well done."

Boy Scouts convene for annual jamboree

Reportedly, no less than one half of all American males have, at one time or another, been involved with the Boy Scouts of America (B.S.A.). This nonprofit organization has been one of the most popular youth movements to ever take place in this nation.

Every four years thousands of boys congregate at the B.S.A. National Jamboree. They gather to swap stories, trade patches, compete in games, make new friends and learn more about the Boy Scouts. This year the National Jamboree will be held at Fort A.P. Hill, Virginia, from Aug. 2 through 8.

This undertaking requires a great deal of planning. Since early 1988 the Southern Sierra Council, the local Boy Scout council for Kern County, has been preparing for the Jamboree. Dr. Madding from Tehachapi was chosen as the Scoutmaster for the specially formed Troop 724. He directed the careful screening process to choose which of the interested boys would be able to attend. Of the thirty-two boys who were chosen to attend the National Jamboree, three were from Ridgecrest. They are Jeeter Biery and Paul Biery from Troop 35, and Scott Wilson from Varsity Team 848. As Third Assistant Scoutmaster, Matt Parris (NWC summer employee) from Troop 803 is one of the four adults who will lead the boys to the Jamboree.

Not only will Troop 724 be attending the National Jamboree, but it will be touring the nation for the entire week before the Jamboree begins. They will visit the Liberty Bell and Independence Hall in Philadelphia. They will gaze out of the Statue of Liberty at the New York skyline. In Washington D.C. they will take a tour of the White House and the Capitol Building. Also on the itinerary is a tour of Thomas Jefferson's home, Monticello, and a visit to Colonial Williamsburg. All of their boys and leaders of Troop 724 are looking forward to an exciting adventure and a valuable learning experience.

To find out more about Boy Scouting in the Indian Wells Valley, contact Don Carlston, District Executive, at 446-5694.

CLPD uses radar to enforce traffic laws

Motorists on board the Naval Weapons Center (NWC) are reminded that China Lake Police Division (CLPD) officers enforce state and NWC traffic regulations.

According to Kerry B. Swigum, traffic manager, CLPD Operations Branch, areas of concentration for radar traffic enforcement for next week are

listed below.

- Monday -- Inyokem Road.
- Tuesday -- CLPL Road.
- Wednesday -- Gold Canyon Road.
- Thursday -- Sandquist Road.
- Friday -- Poleline Road.

Violations may be cited at any time, as well as in areas other than the ones mentioned above.

Learn UNIX with Learn, a program on Convex

Learn UNIX with Learn. A computer-aided instruction program on the Convex provides interactive instruction in UNIX. Simple file handling and editing

using both a line editor and vi are covered. To use the program, log onto your account on the Convex and type "learn". Prompts will follow.



ALL TOGETHER NOW--A Navy Award of Merit for Group Achievement was recently awarded to the team of China Lakers responsible for the successful development and demonstration of a fiber optic data link for air-launched weapons. The first successful demonstration of a fiber optic data link from an air-launched, air-to-ground weapon occurred at NWC in January. It was the culmination of a multi-year development. The members of this spirited and dedicated group are: bottom row, l to r, Marie M. Kirk, John Ayers, Mark Lambert, and Jim Whittington. Second-row honorees are Marc Moulton, Bob Hoffman, Fay Hoban. Standing in the third row are Richard St. Claire, Wayne Burnett, and Hal Duff. Lcdr. Tom Massicotte, Dwayne Harms and Bill Marten are in the next row. Capt. Burt and Gerry Schiefer, top row, join the group. Gunars Svika was not present for the group photo. Photo by PHAN Cary Brady.

Precipitation below average

June's weather normal

Range Support Branch (Code 6254), Range Meteorology Office reports near normal weather for June 1989.

As the month began, the jet stream was located over Baja and slowly moved north over the Pacific Northwest by mid-month. On several days, cumuloform clouds developed, but only trace amounts of precipitation was recorded in the valley. The 1988-

1989 rainfall season ended with 1.59 inches of precipitation -- 2.78 inches below normal.

The average monthly temperature was 1.4 degrees above normal. Afternoon readings were 100 degrees or higher on nine days and 105 degrees or higher on five days. The hot spot was J-32 (the tracking station on G2 road...two miles west of Aircraft Survivability) with a reading of

111 degrees on the 13th.

Prevailing surface wind was from the west southwest at 8.3 knots (1.3 knots above normal). Strong, gusty winds were recorded on four days. On the third, Owens Lake dust was noted on the west side of the valley.

At Armitage Field, the prevailing visibility remained 25 miles or higher during the month.

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Inter-departmental cooperation brings new CLPP research facility to fruition

"Fostering cooperation between and within departments is essential to accomplishing the mission at NWC," is the sentiment of Dr. James Baldwin, head of the Propellant Technology Branch (Code 3211) in the Ordnance Systems Department.

Such was the case when the branch needed equipment and labor to make operational the Department's new Energetic Materials Laboratory. The building was recently rehabbed for use in chemical research and small-scale mixing of new ordnance materials. As a cooperative result of some creative effort by three Research Department (Code 38) employees working in Code 3211, and the extra mile traveled by Code 32 facilities personnel, the 'first live mix' milestone was accomplished May 17.

Dr. May Chan, Dr. Russ Reed and Alan Turner (Code 3891) instigated the Code 38 purchase of a mixer, oven and other equipment totaling over \$250,000. In return, the Research Department has use of the facilities for working with energetic materials in batches too large for safety in its Michelson Lab work spaces.

unforeseen usage changes required fine tuning of utilities by workers familiar with the researchers' special requirements.

The job had to be worked into the already full schedules of the Energetic Materials Division's facilities engineers and maintenance workers. Engineered by Al Avery and Jim Embree of the Process Engineering Branch (Code 3217), the job was planned and estimated by branch members Jim McGill and Jack Tipton. According to Avery, the scientists had very specific needs, and the existing utilities and wiring were useless or in need of repair. A major modification job was taking form.

Then maintenance workers from Maintenance Branch "A" (Code 3215) went to work. Electricians Gene Albers, Larry Martin, Curt Fortune and Don Lane replaced electrical wiring in the basement to facilitate the new equipment. Martin Dorrell, Mike Clark and George Grace revamped the air conditioning system; Edwin Gregory and Mike Heseman completed the carpentry and painting needed for structural enhancement. This group per-

formed under the supervision of branch head Gary Miner. "The craftsmanship was excellent," noted Avery, project engineer. "And they demonstrated personal initiative in completing the job...they really went the extra mile."

Maintenance Branch "B" (Code 3216) upgraded plumbing to accommodate the new equipment. Jay Gardner, Dick Bullock, Bob Dabbs, Frank Hernandez and Bob Fuller worked closely with the Propellant Technology Branch to ensure safety and functionality.

With groundwork completed, Code 32 maintenance personnel proceeded to apply the 'icing on the cake'. They installed the newly acquired processing and control equipment in the modified mixing bays, oven rooms and remote instrumentation and control bays utilizing the revamped utilities.

Dr. Chan, research chemist, formulated the propellant, and Turner, physical science technician, performed the first live mix at the facility. They demonstrated the advantages of the new one-pint propellant mixer purchased

by Code 38. A bottom tap port permits direct vacuum casting of samples from the pot without exposing the entire batch to air or foreign objects. The mixer pot,

connections and casting jar are all water jacketed so that the temperature may be controlled for casting new thermoplastic elastomers (Continued on Page 11)

Advanced Digital Group

Inc. is very pleased to be given the opportunity to be on base Aug. 8, at the Sea Farer (EM Club), from 10:00 a.m. to 3:00 p.m. Our objective is to display the Instrumentation and Systems we feel can provide very cost effective solutions for your needs.

A brief summary of the companies we will represent is as follows:

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BYTEK CORPORATION - Universal PROM/Bi-Polar/PLD programmer, stand alone, or PC compatible, Gang unit. All in one for about 35% less than Data I/O.

GENERAL MICRO SYSTEMS - VME 68010/020/030. Up to 33MHz clock, 4MByte RAM, Mezzanine I/O, VSB, SCSI and more.

MICROCOSM CORPORATION - 286/376/386SX/386 Emulators, 0 waitstates, running up to 33MHz. 512K add on overlay memory. PC compatible.

ORCAD CORPORATION - The hottest Schematic capture package on the market today. PC based software, along with all it's support packages: VST-timing simulator; PCB-board layout; PLD-jedec design tools.

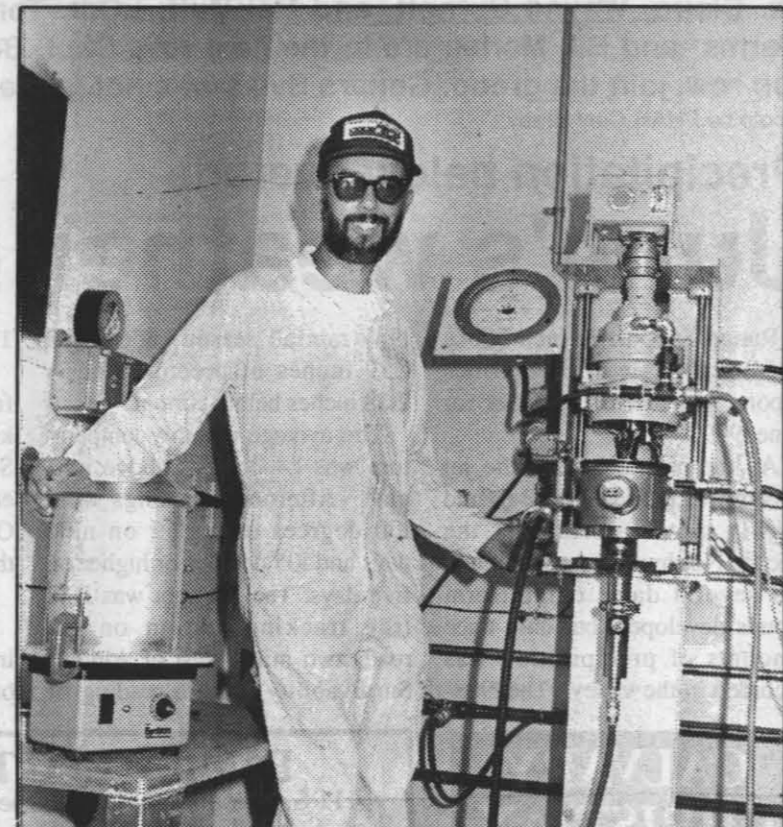
SBE CORPORATION - VME and Multi-Bus 68010/20, SBC on Multi-Bus form factor, RAM, I/O and more. VME System T1 speeds for Communication, Ethernet and 68030 CPU SBC systems. VME custom gate array and custom interface chips.

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We are looking forward to seeing you there.



NEW EQUIPMENT--Jim Clark of the Propellant Technology Branch Ordnance Systems Department displays some of the equipment purchased by the Research Department for exploratory use in the recently rehabbed Energetic Materials Laboratory at the CLPL. Photo by PHAN Cary Brady.

E-3s and below swim for free at NWC's EM pool

Usually, the Indoor Pool is available during the summer months as an alternative for military who do not wish to pay for pool use. Because the Gym and Indoor Pool are closed for remodeling right now, this avenue of recreation is closed. Because of the closure, Captain Dropp decided that MWR should implement a "Summer of 89 only" pool policy that would remedy the situation.

This summer only, E-3, including their dependents, and below will be able to use the EM Pool

without charge. The policy change will be implemented immediately.

All users should pay for the added costs of operating an outdoor pool during the summer. Therefore, once the Gym renovations are completed and the Indoor Pool is once again available to military at no charge, MWR will revert back to the policy of charging all patrons next summer for the use of the EM Pool.

Driving range remains open

Course closed Mondays

With the exception of the driving range, the NWC Golf Course will be closed on Mondays, announced Mark Lynch, the golf course's manager. During the days the course is closed, the driving range hours of operation will be 4 to 8:30 p.m.

"Weekly closure will allow the course 'to rest,' said manager.

The manager noted that this weekly closure would allow the course "to rest" after the heavy play on weekends, allow a breather from the extreme heat and stress on the greens and

allow the grounds crew an entire day of uninterrupted maintenance work and irrigation system repair. In addition, the grounds crew will be able to do an entire nine holes of greens maintenance in one day.

The course will be open on holidays. If the holiday falls on a Monday, the course will close on Tuesday to allow it to recover from heavy usage on the previous days.

On days the course is closed, the Par & Grill, will be open from 10 a.m. to 2 p.m. only.

Lynch concluded, "This one day closure will enable golfers to have a quality, green golf course for all to enjoy."

O'Pool shuts down early on August 3

On Thursday, Aug. 3, the Officers' Pool will close at 6 p.m., an hour earlier than normal, for an "All Officers Swim Party." The event will be a going away party for Capt. John Burt, who is retiring from the Navy. Family Night will not be held on this date.

On Saturday, Aug. 5, Morale, Welfare & Recreation Lifeguards will be training at the Officers' Pool from 9 a.m. to 12 noon. During this time, half the pool will be closed.

For further information, call the acting sports director, Sherri Baker, at NWC ext. 3387.

Gun club reserved on Tuesdays for juniors

Every Tuesday evening the Sierra Desert Gun Club's clubhouse is reserved for Junior Division smallbore rifle practice. The range is open at 6:30 p.m. and the first relay begins shooting at 7 p.m. A second relay begins shooting when the first has finished, about 7:30 p.m. Squading is on the first come, first to fire basis. Standard ammo, .22 caliber, is provided for junior club members. Cost is 75 cents for standard ammo for non-members and range fees are 25 cents for club members and 50

cents for non-members. Junior Division is open to all residents of the area between the ages of 11 and 18 years, boys and girls. Junior members receive one-to-one instruction in the proper shooting procedures. It's not necessary to wait until the yearly marksmanship class, juniors may start any time. The club provides all necessary equipment and materials, including target quality .22 caliber rifles. For information, call Cecil Daley at 375-3989.

Hunter safety class set

June's Hunter Safety Class, sponsored by the Sierra Desert Gun Club, was filled to capacity and a large number of disappointed hunters were turned away.

The next Hunter Safety Class is planned for Saturday and Sunday, Aug. 26 and 27. The 16-hour class will meet from 8 a.m. to 4 p.m. on both days.

The class is open to all Indian Wells Valley and adjoining areas residents over 12 years of age. Pre-registration and sign-up for the session is required

as the class is limited to 50 students. A \$5 registration fee for each student will be collected at the time of sign-up.

A sign-up table will be set up in the front lobby of the Ridgecrest Police Station on Saturday morning, Aug. 19, from 9 a.m. until 1 p.m. and on Tuesday evening, Aug. 22, from 7 to 9 p.m.

The school will be held at the Sierra Desert Gun Club's rifle and pistol range and clubhouse facilities on NWC.

ATV helmet law upheld by BLM

Due to a new California State law, effective Jan. 1, riders of all-terrain vehicles (vehicles with three or more low-pressure tires; handlebars for steering controls; and a single seat designed to be straddled by the operator) are required to wear approved safety helmets while riding on state and Federal lands in California.

The ATV helmet law is being enforced by Bureau of Land Management Rangers on public lands throughout California.

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CREAM OF THE CROP--Coaches John Martin (left) and Skip Williams (not shown), and manager Rick Tamez have been working the 1989 IWV Mustang All Stars hard to get them ready for their first regional game. The IWV Mustangs won district competition in only three games. They beat Palmdale (twice) and Lake Los Angeles. In all three games, they won by at least 10 runs. The All Stars are, from left to right (bottom row) John Read, Kevin Martin, Rick Tamez, Pat Ross, Matt Lubbes, Aaron Booth, Ian Leis, (top row) Aaron Frannich, Neil Underwood, George Hernandez, David Hammond, Chris Branson, Kevin Cornett, Willie Raymond and Jeremy Jones.

Hard hitting, good play win district tournament

Hard hitting helped the IWV Mustang All Stars win the District Championship Tournament against Palmdale last Saturday on the China Lake Baseball Fields. The 9-10 year olds are currently in regional competition.

IWV's Bronco All Stars came in second place during district competition, which was also played at NWC. Palmdale's Bronco All Star team beat IWV's team, ending the season for the local Broncos.

The local 13-year old Pony Division lost to Palmdale and Lake Los Angeles in their first two games, ending their hopes of progressing to regional play.

While the IWV 14-year old Pony Division didn't win the district championship, they did come in second. Only first place finishers, however, go on to play in further competition.

The IWV Colt Division won the District Tournament and went on to play in regional competi-

tion. According to Manager Spud Cheever, the district champs lost their first game and won the second game. To stay in competition, they had to beat Santa Susanna's team, which defeated the IWV game in their first match. Once again, Santa Susanna defeated the local team, earning themselves a right to play in the championship game. "We wouldn't have been able to have gone as far as we did if it wasn't for the generous support of Ford Aerospace, who loaned us vans, allowing the team to go to the games," said Cheever. "We appreciated their community spirit and support."

Already thoughts are turning to next years competition. "This was our chance to see what kind of talent is needed for the upper levels," noted Cheever. "Next year, we'll be ready."

IWV's Pony League Baseball Season is now over for everyone except the Mustang All Stars.

Excellent catches are being made at Lake Isabella and Eastern Sierra area

Fishing is pretty good at Lake Isabella, noted French Gulch Marina personnel. Anglers are catching bass up to 9 1/2 lbs, with the average size being 2-3 lbs. Bass fishermen are fishing 20-25 feet deep and using nightcrawlers, pig and jig, crawdads and waterdogs. Catfish fishing is also doing well on clams, anchovies and mackerels. Trollers are catching trout by fishing 35 to 40 feet deep. Blue gills are also plentiful, but many of them are spawning.

According to the Bishop Chamber of Commer, fishing is real good in the Lone Pine area for those using power bait and eggs. In the back country, anglers are catching lots of golden trout on flies, Panther Martins and yellow humpies. Lake Diaz is slow right now.

In the Big Pine area, Big Pine Creek is giving up some great pan-size trout. Orange cheese and mini marshmallows seem to work best. Trout are being caught out of Baker Creek on salmon eggs and baby night crawlers. The Goodale area of the Owens River has had good fishing by those using baby night crawlers, power bait and blue fox lures.

The river is still up and moving quite swiftly in the Bishop area. There are lots of limits being taken out of the river on flies and crickets. Lake Sabrina reports good shore and boat fishing -- trolling with flashers/worms and needlefish. Power bait and eggs are best at Bishop Creek. Pleasant Valley Dam has picked up again and is best in early morning or evening using power bait and night crawlers near the gorge.

Fishing is great in the Rock Creek area. Inflated baby night crawlers or power bait have had

the best results. Troll with lead core, 2 colors, with a flat frogfish or red dot frog or needlefish. Most trout are 10-12 inches.

Lots of rainbows and browns are being caught from Convict Lake on power bait, worms and marshmallows. Trolling with cowbell flasher and nightcrawlers is also good.

Crowley Lake is also having good results. Trolling with lead core, 4 colors, giant cowbell with 18" leader has been having results. Also working well is night crawlers and bikini needlefish. Perch are hitting on jigs and

worms.

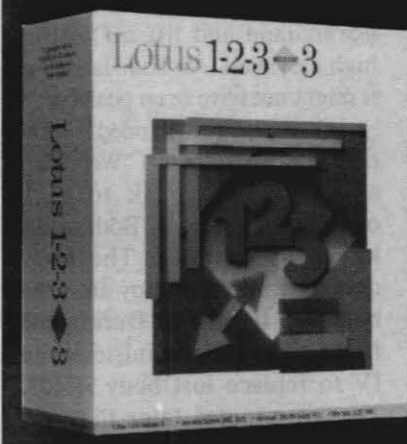
In the Mammoth Lakes area, Lake George and Lake Mary are currently doing private stocking and trout are in the 4-6 pound range.

The June Lake area has good fishing all over. Many fish range from 4-6 lbs. and have been taken out of the lakes on silver needlefish, flashers and worms or

marshmallows.

Nice rainbows from 1-2 lbs. are being caught on power bait or eggs in the Bridgeport area. Bigger fish are being caught trolling with fluorescent orange or green repalas. Lower Twin Lake reports good fishing with lots of limits for plant-size and an occasional 3-7 lbs. brown being caught on flatfish.

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Search and rescue operations require cooperation of CLMRG and NWC SAR

Responding to an emergency call, 16 local China Lake Mountain Rescue Group (CLMRG) and NWC Search and Rescue (SAR) volunteers quickly rose from slumber and moved into the mountains last Tuesday night.

The China Lake Police Department had received word from the Inyo County Sheriff's Office of a camping accident at Chicken Spring Lake high in the Sierras west of Lone Pine. A backpacker had hiked out five miles to the trailhead at Horse-shoe Meadow and driven to Lone Pine seeking help for his teenaged son who had been severely burned in an accident involving a gas stove. Daryl Hinman, CLMRG operation leader, was the first member to respond.

According to Hinman's rescue report: "CLMRG was contacted at 10:30 p.m. on July 18 via the pager by the China Lake Police, about three hours after the incident had occurred. I phoned the boy's father at the Inyo County Sheriff's Office and discussed the incident, the extent of the injuries (second and third-degree burns on head and upper body) and first-aid given. He was able to give an exact location of their camp. I then initiated a callout of

the roster through Carol Burge and Janet Westbrook (two of four CLMRG coordinators).

"By the time I got to the CLMRG hut Al Green, Linda Finco, Andy Mitchell, and Dennis Burge were already there. They formed the advance team and were on the road by midnight. Later Bart Hine, Paul DeRuiter, Dave Silverman, Larry Seibold and Steve Walker were dispatched. Meanwhile I made several calls with the Tulare and Inyo County Sheriffs' Offices trying to establish helicopter support. Knowing the seriousness of the injuries and that there would be little that our people could do for the boy, I could not emphasize enough the importance of a helicopter evacuation at first light.

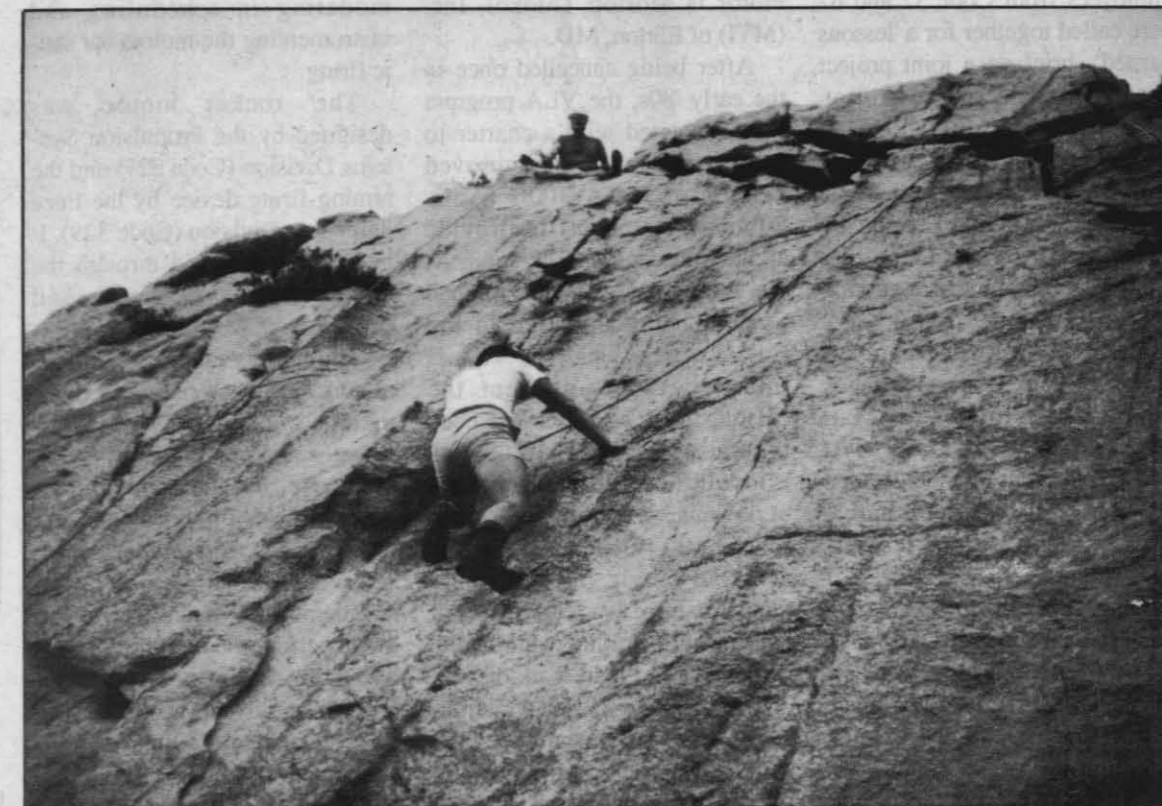
"I drove to Lone Pine with Roger Meng who was to provide communication through his Ham radio from the remote basecamp. Betty Meng remained in Ridgecrest as the in-town Ham contact. Meeting the deputy sheriff in Lone Pine, we drove to Horse-shoe Meadow where base camp was established.

"By 4 a.m. the advance team arrived at the subject's camp. They did what they could to stabilize him. His condition was discussed via radio with a doctor at

Southern Inyo Hospital in Lone Pine where he was to be flown. It was decided not to attempt any

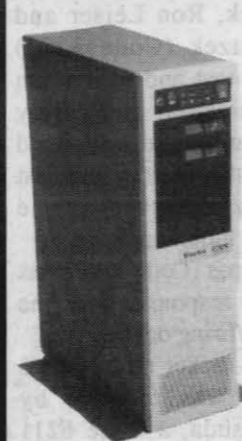
treatment of the burns since evacuation was probably imminent. We did not want to risk disturbing

his condition by causing him any unnecessary pain." (Continued on Page 11)



FROM ANY ANGLE--Climbing is not for novices. China Lake Mountain Rescue Group holds a class in basic mountaineering each summer to increase awareness of the sport and the dangers it presents. The group recruits trainees to join their search and rescue team which is called to an average of 30 missions each year in nearby mountains. A trainee inches his way up a rock face at Heller Rocks, south of Indian Wells Canyon. The rope ensures his protection if he should slip. Photo by Julie Paulsen.

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100% success rate**Group strives for total quality and achieves it!**

On Monday the NWC success story continued when a group of employees from Code 32 and 62 were called together for a 'lessons learned' brief on a joint project recently concluded. The project, Vertical Launch ASROC (VLA) EX-114 rocket motor, had successfully completed Full Scale Environmental Qualification by the static firing of 33 motors without a single failure or anomaly.

The unsuspecting group was joined by VLA project manager, Phil Gattis, along with Matt Anderson, Head, Ordnance Systems Department (Code 32), and Bill Porter, Deputy Technical Director. The 'lessons learned' brief disguised an ulterior motive--the presentation of a group special act award.

The Vertical Launch ASROC is a quick reaction, medium range anti-submarine warfare weapon under the sponsorship of Naval Sea Systems Command. Capt. Doug Keller (NAVSEA PMS-416) is the VLA program manager. Loral Defense Systems (LDS) of Akron, Ohio is the prime contractor. The lead laboratory is Naval Ocean Systems Center in San Diego, CA, with NWC acting as Technical Direction Agent

for the rocket motor. The propellant loading contractor for the motor is Morton Thiokol, Inc. (MTI) of Elkton, MD.

After being cancelled once in the early '80s, the VLA program was reinstated with a charter to design and build an improved version of the ASROC (Anti-Submarine Rocket) to provide additional range and be compatible with the new Vertical Launch System being installed in the Navy's newer ships. The VLA is intended to complement the existing ASROC which has been in service since the early '60s and is installed on several older classes of ships.

The 100-percent success rate achieved during Environmental Qualification was certainly not by chance, but rather due to the dedication and hard work of a lot of people at the Center. In particular, personnel from the Ordnance Systems Department and the Range Department worked many long hours and weekends to ensure critical schedules were being met. This involved assembly and inspection of the rocket motors in preparation for the tests, and repairing and monitoring environmental equipment. Likewise, the personnel at the

NWC Skytop test complex were highly cooperative and accommodating in scheduling and instrumenting the motors for static firing.

The rocket motor was designed by the Propulsion Systems Division (Code 327) and the arming-firing device by the Fuze Safe-Arm Division (Code 329). It has now progressed through the Advanced Development and Engineering Development phases. During this time, a total of 89 motors have been static and flight tested, and necessary design changes and modifications incorporated to correct anomalies as the program progressed. This required the effort and teamwork of several disciplines and codes, and demonstrated that NWC has the expertise and facilities to successfully design and qualify a propulsion system.

Environmental Qualification, conducted by the Ordnance Test and Evaluation Division (Code 621), involves subjecting the motor to a variety of "real world" treatments such as heat, cold, humidity, salt fog, and vibration. The qualification program began in November 1987 with three motors cast at NWC and three cast at the Naval Ordnance Sta-



ANOTHER SUCCESS--This VLA rocket motor went through a series of static firings before successfully completing Full Scale Environmental Qualification tests.

tion, Indian Head, MD. MTI then demonstrated they could provide a highly reliable motor to NWC specifications by producing 30 motors to complete the remainder of the qualification program requirement. Much of the success of the program is attributable to the consistent reliability of the MTI motors. After 17 months of intense environmental treatments, firings, and data collection and analysis, the last motor was static fired at the NWC Skytop complex on April 5, 1989.

Additionally, the motor has undergone a series of safety and Insensitive Munitions tests to determine its vulnerability to a variety of threats and hazards such as fast and slow cookoff, fragment and bullet impact, and vertical and horizontal drops.

Gattis is pleased to announce the motor has passed all Weapon Systems Explosive Safety Review Board requirements, is expected to be cleared for limited production, and will be proceeding on to the TECHEVAL/OPEVAL phases.

"The many people on Center who have worked on this program can be justifiably proud of their hard work and accomplishments, and confident that we are providing a safe and reliable weapons system to the Fleet," stated Gattis.

To publicly recognize the

efforts and accomplishments of some of the team members, Ray Miller, Propulsion Systems Division Head, nominated the following employees to receive group special act awards. Bill Porter presented the awards at Monday's meeting.

Robert Holly, George Sieg and Gregory Smith (Code 3272) oversaw rocket motor assembly and processing techniques, transitioning technology to the contractor.

Art Black, Ron Leiser and Harold Platzek (Code 3273) coordinated test and evaluation for environmental and safety qualifications, and prepared requests for static firings and test dates. Platzek served as the senior rocket motor engineer.

Steve Pappas (Code 3292) was the engineer responsible for the VLA arming/firing device.

All VLA rocket motor static firing data was reduced by Sakaye Matsuda, a Code 6211 employee who came back to work on part time/temporary status after retirement to complete the effort.

Ed Regan, Bob Sutherlen and Gary Wydra, also of Code 6211, served as firing officers/support at the NWC Skytop static firing facility.

Code 6212 employees Dave Bagnaschi, Rick Featherston, (Continued on Page 11)

Rocket motor completes error-free qualifying tests

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Ken Katsumoto and Tim Teel provided environmental engineering support, coordinated qualification treatments, and performed x-ray inspection on the qualified motors.

Last, but not least, Toni Baker, Code 3652, served as the VLA configuration manager. She main-

tained accountability for all phases of program related information.

Anderson added his comments on the highly successful program: "The qualification test program for the VLA Rocket Motor was one of the most error-free efforts I've seen in my 27 years of work in R&D of naval weapons," he

said. "Not only did it not experience any failures, it didn't even uncover any anomalies--a highly unusual level of quality considering we had motors built by three different activities."

"This project epitomizes what our management is supporting in Total Quality Management," Anderson concluded.

Technical Societies**FMA announces August activities**

Meeting in its new clubhouse at 707 Ellis, the China Lake Chapter 28 of the Federal Managers Association (FMA) gathers on the first Tuesday of each month. The August meeting will be August 8 from 11:30 to 12:30.

Officers of the China Lake chapter will be attending the Zone 10 meeting tomorrow to prepare for the 1989 Western Convention to be held in San Antonio in August. The meeting will address all

issues facing the Association. Chapter president, Joe Hibbs, is a member of the committee to review the FMA National and Zone Bylaws. Recommended changes will be generated and submitted by Zone 10 at the Western Convention for approval prior to being submitted at the National Level.

For more information regarding FMA or to obtain a prospective member package contact Joe Hibbs or Carol Conrad at NWC ext. 3673.

Georgia Tech presents EW overview

Georgia Technical Research Institute will present an overview of their capabilities and work in the area of electronic warfare on Tuesday, Aug. 15.

This unclassified briefing will

be held in Michelson Laboratory, Room 1000D, from 10 to 11 a.m.

The overview will include ESM, ECM/ECCM system development, computer modeling of EW scenarios, lasers, electro-

optics and infrared developments, antenna design and specialized measurements techniques, foreign technology exploitation and threat simulator design.

Trained, concerned team responds to emergency

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Meanwhile an NWC helicopter with SAR team was approved and dispatched for the mission. On duty at the quarterdeck, PR1 Robert Hopkins had coordinated the mission with the sheriff's office, SAR team and command authority. The helo was due at 6 a.m. to make the evacuation. Piloting the helo was mission commander Lt. John Brooks with co-pilot Maj. Chris Ladd, both of NWC's Aircraft Department. Completing the volunteer SAR team was aviation machinist's mate Darren Dillon, crew chief, and hospital corpsman Roger McClure.

A landing zone had been located in a nearby meadow, appropriate for the single engine Huey which was flying close to its limitations at the 11,200-ft. elevation. "Timing was critical,"

said Brooks. "We figured the boy wouldn't make it if he had to be carried five miles down a trail and driven down the winding road to Lone Pine. Fortunately, the cold morning temperature made the air dense enough to hover, land and lift off at that high elevation. An hour later and it might not have been possible."

Once the helo landed everyone went into action. "We didn't even need to speak to each other," said Hinman. "Both teams knew the routine." The crew quickly loaded the boy into the helo and lifted off. During the flight McClure administered an IV to replace lost body fluids. Twelve minutes later they set down at the hospital in Lone Pine, about eleven hours after the incident had occurred.

The CLMRG team broke camp for the boy's family and

walked his younger brother out of the wilderness area with their camping gear. Helo and SAR team returned to China Lake--mission completed.

"Everything went very well," said Hinman. "Because of the rapid response of both CLMRG and the NWC helo I don't think the boy could have gotten medical help any sooner."

The NWC SAR team is composed of military pilots, aircrew and corpsmen who respond to military aircraft accidents and other military-related disasters as an appendage of range support. A four-person crew is on stand-by 24 hours a day. Missions involving civilian SAR are viewed as excellent training opportunities, but must be approved on a case by case basis by Center command. NWC's first priority is to be available for military SAR.



HONORED VOLUNTEER--Pris Dropp has generously given of her time and energy to the Navy Relief Society. A Meritorious Medal was presented to her by Capt. John Burt to honor that effort.

Meritorious award given at Navy Relief Dinner

In honor of the many hours and tireless effort donated to the local Navy Relief Society (NRS) Office, Pris Dropp was presented with the Meritorious Medal by Capt. John Burt, NWC commander, at a recent NRS dinner. In addition Joyce Dinnage, NRS executive director from Long Beach, gave a testimonial to Dropp's service.

Other volunteers honored with pins were: Mary Sites - 600 hrs; Kris Hoppock and Louise Tankersly - 300 hrs; Jim Winkler,

Caroline Noland and Connie Barr - 100 hrs; and Iola Field, Nickie Walker, Patty Rizzo and Geneva McGee - 50 hrs.

Special farewell gifts were presented to Mary Burt, Honorary Chairman of Volunteers, and Marnie Vanderpoel, Inter-viewer. Both will be leaving China Lake in the near future as their husbands finish their tours. They will be greatly missed.

Story submitted by Navy Relief Office.

New lab expands research with energetic materials

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materials (a feature unique to this mixer). Much of the support equipment for temperature control and vacuum, installed in the basement, was also purchased by the Research Department.

"Thermoplastics are an important addition to propellant technology," Turner explained. "They 'set up' simply by cooling, bypassing the need for a curative. This gives chemists the ability to melt down and rework the ingredients even after they have been cast."

Baldwin was enthusiastic about the endless exploratory possibilities the new laboratory and equipment will facilitate. Summing up the entire exercise, he stated, "I'm extremely pleased with the team effort that has gone into bringing this lab to fruition."



JOINT EFFORT--Members of Code 32 and 62 designed and tested the Vertical Launch ASROC rocket motor resulting in a highly successful product. On hand for group special act awards presentation were (left to right): Ray Miller, Phil Gattis, Sakaye Matsuda, George Seig, Art Black, Bob Sutherlen, Ed Regan, Ron Leiser, Steve Pappas, Robert Holly, Greg Smith, Tim Teel, Gary Wydra, Harold Platzek, Toni Baker, Bill Porter (NWC deputy technical director), Dave Bagnaschi, Rick Featherston, and Matt Anderson. Missing from the photo is awardee Ken Katsumoto.